

LOUIS STOKES LOUISIANA ALLIANCE
FOR MINORITY PARTICIPATION

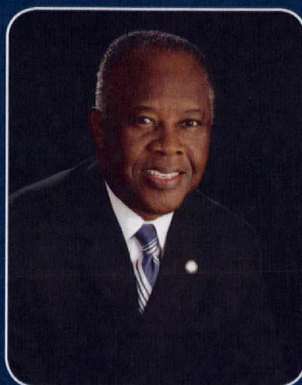
LS-LAMP

STUDENT PROFILES
IN EXCELLENCE IN STEM



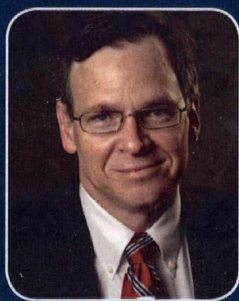
1995-2011

LOUIS STOKES ALLIANCES FOR MINORITY PARTICIPATION

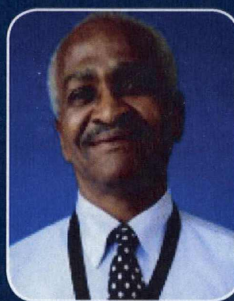


DR. A. JAMES HICKS
Program Director
Louis Stokes Alliances for Minority Participation

LS-LAMP LEADERSHIP



DR. JIM PURCELL
Chairman,
LS-LAMP Governing Board
and
Louisiana Commissioner of
Higher Education



DR. KERRY DAVIDSON
LS-LAMP Co-PI
and Deputy Commissioner
for Sponsored Programs
Louisiana Board of
Regents



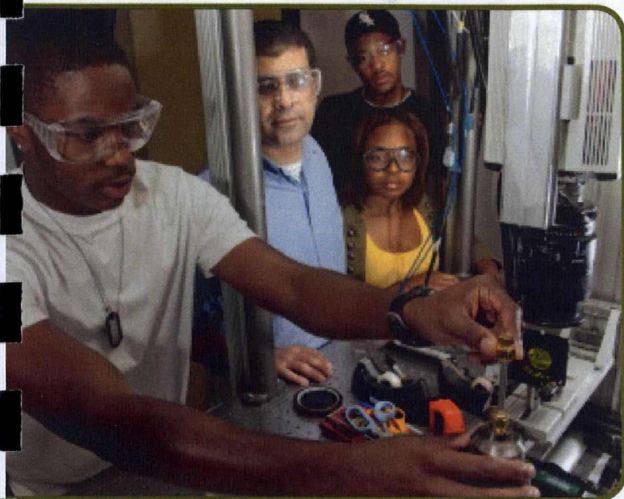
DR. DIOLA BAGAYOKO
LS-LAMP PI and
Project Director



DR. LURIA YOUNG
LS-LAMP Co-PI



DR. ELLA L. KELLY
LS-LAMP Co-PI



LS-LAMP STUDENT PROFILES

FORWARD

LOUIS STOKES LOUISIANA ALLIANCE FOR MINORITY PARTICIPATION (LS-LAMP) LS-LAMP SCHOLAR PROFILES IN EXCELLENCE IN STEM

Inside this Publication:

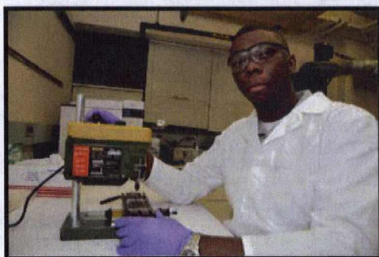
This publication contains summary profiles of two hundred LS-LAMP scholars. It highlights their academic, research, and career achievements in science, technology, engineering, and mathematics (STEM). The profiles are for a representative sample of the thousands of level I scholars supported by the Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP) over the last 16 years. As demonstrated by these profiles, LS-LAMP has substantively contributed to the increase of the number and the quality of minority, undergraduate students earning Bachelor's degree in STEM fields. In particular, the significant percentage of these alumni holding STEM graduate degrees or successfully pursuing the same attests to the quality of their undergraduate training. The several Student Grand Marshals among these scholars illustrate the point relative to excellence. Some LS-LAMP scholars from community colleges (Southern University at Shreveport and Nunez) have gone on to receive graduate STEM degrees.

The Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP) is a comprehensive, statewide, coordinated program aimed at substantially increasing the number and the quality of minority students enrolling in and completing baccalaureate degrees in science, technology, engineering, and mathematics (STEM). LS-LAMP continues to guide many of these alumni to the successful pursuit of graduate degrees in STEM. LS-LAMP comprises twelve (12) universities and colleges and one research facility, with Southern University and A&M College as the lead institution. LS-LAMP has had a transformative impact on Louisiana STEM education, in general, and on minority STEM education, in particular. This success was achieved through the adoption and institutionalization of the US Presidential Award winning Ten-Strand Systemic Mentoring model by LS-LAMP partner institutions. www.ls-lamp.org

INSTITUTIONAL PARTNERS AND THEIR CAMPUS COORDINATORS

- Dillard University - Dr. Abdalla Darwish
- Grambling State University – Dr. Pia Alburquerque
- Louisiana State University – Dr. Su-Seng Pang
- McNeese State University – Dr. George Mead
- Nunez Community College – Ms. Christine Thomas and Ms. Carly Gervas
- Southern University and A&M College – Dr. Diola Bagayoko and Dr. Ella L. Kelley
- Southern University at New Orleans - Dr. Joe Omojola
- Southern University at Shreveport – Dr. Robert Hudson
- Tulane University – Dr. Michael Cunningham
- University of Louisiana at Lafayette – Dr. Vijay Raghavan and Dr. Bobbie DeCuir
- University of New Orleans – Dr. Ashok Puri
- Xavier University of Louisiana – Dr. Murty Akundi

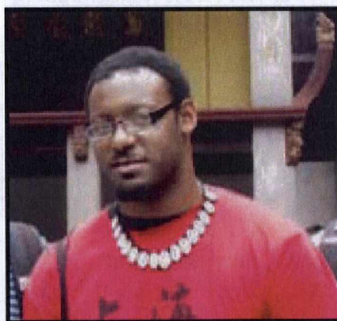
LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School



ANDRÉ A. ADAMS

obtained his Bachelor of Science degree in chemistry in 2000 at Grambling

State University. He is an established analytical scientist with extensive biosensor engineering/manufacturing experience. His expertise in the development of micro/nanofluidic immunoassay platforms is directed towards analytes ranging from trace explosives to low abundant biological targets. His research experience in industrial, academic and government settings, provided a unique scientific perspective. He is a high-performing individual contributor, team player, and technical resource with proven multidisciplinary experience spanning optics, separations, method development, instrument development, as well as analytical characterization. Adams received his Ph.D. in Biological Analytical Chemistry in 2008 at Louisiana State University. The title of his dissertation was “Novel Devices and Protocols Enabling Isolation and Enumeration of Low Abundant Biological Cells from Complex Matrices.” His advisor at LSU was Professor Steven A. Soper. Adams earned a NRC Postdoctoral Research Associate position and worked under the supervision of Anne Kusterbeck Ph.D. at the Naval Research Laboratory, Washington, D.C. He is currently working as a Research Chemist at the same location.



FRANK ALEXANDER

completed his Bachelor of Science in electrical engineering in spring 2009 and was accepted into the University of South Florida to

pursue a Ph.D. degree in electrical engineering. As an undergraduate, he served as a Senator for the Southern University Chapter of the National Society of Black Engineers and the IEEE Southern University Chapter President for which demonstrated his superior leadership skills. In addition to his student leadership positions, Mr. Alexander was an MRI

Researcher at Time-Medical, in Shanghai, China and an Electrical Engineering Intern at Delphi Electronics & Safety. He has also participated in summer internships at Georgia Tech’s Summer Undergraduate Research Experience (SURE) and University of Kentucky’s REU program. He is a recipient of two esteemed fellowships: NSF Graduate Research Fellowship and NSF Bridge to the Doctorate Fellowship. In May of 2011, Mr. Alexander received the Master of Science degree in electrical engineering from the University of South Florida.



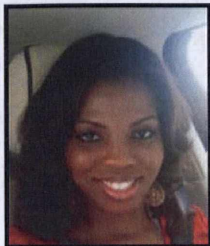
JEREMIAH T. ABIADE

is an assistant professor in the Department of Mechanical and Industrial Engineering at the University of Illinois at Chicago (UIC). He spent three years as an

assistant professor in the Department of Mechanical Engineering and the Department of Materials Science and Engineering at Virginia Tech. He received his Ph.D. in materials science and engineering from the University of Florida in 2004 and his Bachelor of Science degree in physics from Southern University & A&M College in 1999. During his time at Southern, Jeremiah was a scholar of the Timbuktu Academy and LS-LAMP. He began his undergraduate matriculation at the University when he was accepted into the Summer Bridge Institute (SBI) after his high school graduation in 1995. Jeremiah stated that, “The financial support and constant encouragement to seek out internships and research experiences in competitive environments was the prime motivator for my pursuit of the doctoral degree.” His research is supported by grants from the National Science Foundation and the UIC Chancellor’s Discovery Award. Dr. Abiade has received several fellowships and awards, with the most recent being the 2009 Ralph E. Powe Oak Ridge Associated Universities, Junior Faculty Enhancement Award. He is a member of the Materials Research Society (MRS), the Electrochemical Society (ECS), the American Society for Mechanical Engineers (ASME), and the American Society for Engineering Education (ASEE). Dr. Abiade is indebted to Dr. Diola Bagayoko for his leadership and mentoring which

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

were instrumental in his personal and academic career. Subsequently, Jeremiah has implemented some of the aspects of Dr. Bagayoko's systemic mentoring program into his activities. He expressed that, "I am extremely grateful for the financial support and mentoring I received during my time as a LS-LAMP scholar, and I still consider Prof. Bagayoko as one of my mentors."



ITOHAN J. AGBONLAHOR graduated *summa cum laude* from Southern University at New Orleans in 2004 with a Bachelor of Science in biology and a minor in chemistry, where she was a LAMP/PESMACT scholar.

During her undergraduate studies she participated in internship research programs under various grants at Villanova University, Pennsylvania, Louisiana State University and Southern University at New Orleans. She went on to complete her studies at Xavier University New Orleans, where she graduated *magna cum laude* with a Doctor of Pharmacy degree in 2008. She is currently practicing as a pharmacist in the State of Texas.



BRE'ON MONIQUE ANDERSON graduated from Xavier University of Louisiana in May 2011 with a Bachelor of Science degree in Chemistry. While at Xavier, she was secretary of the ACS Chemistry Club along with active membership in both the Dental and Pair Care Clubs.

She received a service award from the Chemistry Club for recognition of her excellence in serving the community. Throughout her four years at Xavier she held a position on the deans list for several semesters and earned numerous scholarships while enrolled. As a LS-LAMP participant, Bre'on developed an interest in cosmetic research and she plans to pursue a career in dentistry with a concentration in cosmetic dentistry. Being a part of LS-LAMP has allowed her to accomplish her future aspirations of becoming a dentist.



INDIA T. ANDERSON participated in LS-LAMP where many opportunities were offered to her from educational seminars to summer research

programs. She earned her Bachelor of Science in physics from Southern University in 2009. She graduated *cum laude* and completed an undergraduate honors thesis entitled, "Using Ultraviolet Spectroscopic Data to Test Solar Coronal Models." After graduating from Southern University, she received a fellowship from the Bridge to Doctorate program to attend Louisiana State University and pursued a degree in environmental science. There she began to realize her affinity for environmental health. She wrote a master's thesis entitled, "Are Local Chemical Releases Having an Effect on Cancer Rates in East Baton Rouge Parish?" In August of 2011, she graduated from Louisiana State University with a Master of Science degree in environmental science with a concentration in toxicology. Immediately after graduation, she accepted a position as an environmental specialist at Environmental Business Specialists, a wastewater treatment company in Mandeville, Louisiana.



NATALIE ARNETT obtained her Bachelor of Science in chemistry at Grambling State University in May 2003. She is currently a faculty member at Fisk University, Nashville, TN. Currently, Arnett's research focuses on the

synthesis and characterization of modified poly(arylene ether sulfone) random copolymers to enhance proton exchange membrane fuel cell performance and novel polyamide-polyetheramide (PAPEA) copolymers that have the ability to improve chlorine degradation during desalination by reverse osmosis applications.



ANDRE' BATISTE obtained his Bachelor of Science in mechanical engineering from the University of New Orleans in 2007. While pursuing his undergraduate degree, he was an active participant in LS-LAMP. Through LS-LAMP,

he had the opportunity to participate in summer research at the University of Illinois at Chicago (UIC) and conducted research in mechanical and biomedical engineering fields. Andre studied the impact of Mechanical Modulation of Mesenchymal Stem Cells and presented his findings at several research conferences. Presently he is a Mechanical Engineer in the Oil and Gas industry and is studying

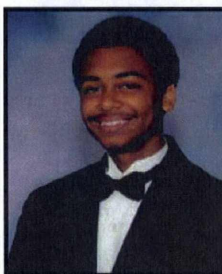
LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

to pursue his Professional Engineers license in mechanical engineering.



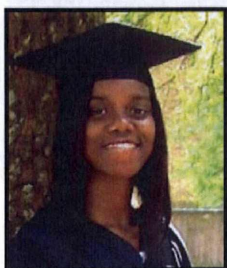
APRIL ANTOINE-BATISTE obtained her Bachelor of Science degree in mechanical engineering from the University of New Orleans in 2007. During the duration of her academic career she was a LS-LAMP

Scholar. LS-LAMP paved the way for her to receive the opportunity to conduct research at the United States Department of Agriculture-Southern Regional Research Center in New Orleans from 2004 to 2008. She has presented her research in Bioaerosols and Sound Absorption of Natural Fibers at the 2003 and 2004 LS-LAMP Conferences. In addition, she has presented research on the Characteristics of Technological Sugar Samples Formed from Sugarcane Subjected to Different Climates at the 81st Annual Meeting of the Louisiana Academy of Sciences, Baton Rouge, Louisiana, March 2007. Presently, she is an active member of ASME New Orleans Section and continues her career as a Mechanical Engineer, designing pressure vessels, piping and modular skids.



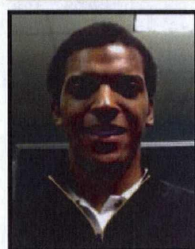
RAFFEAL BENNETT graduated from Louisiana State University (LSU) with a Bachelor of Science degree in chemistry in 2011. His undergraduate Honors include a distinction as LSU Distinguished Communicator. As an undergraduate, he was actively engaged in community

outreach through the LSU Student chapter of NOBCCHE (National Organization for the Professional Advancement of Black Chemists and Chemical Engineers). His research mentor was Dr. Robert Cook. He is currently pursuing a Ph.D. in chemistry at the Ohio State University.



SHARHONDA BILEY is a 2008 Louisiana State University (LSU) graduate with a Bachelor of Science degree with a major in Biology and a minor in Chemistry. She is a National Medical Association

Scholarship recipient, Bengal Group Incorporated Scholarship recipient, and a member of LSU S-STEM Program and Gamma Beta Phi Sorority. In addition, she was awarded the TOP Scholarship, Clarence P. Dunbar Scholarship, SMART Grant, and Alpha Kappa Alpha Scholarship. Her research project titled: "A Dissection of the Domesticated Rabbit (*Oryctolagus cuniculus*, forma domestica) with special attention to the Fascia superficialis of the trunk", was conducted under the supervision of Dr. Dominique Homberger, who also served as her mentor. Sharhonda plans to attend medical school and pursue a career in Obstetrics and Gynecology. She was accepted into the LSU School of Medicine at Shreveport and LSUM New Orleans where she attends on a full tuition scholarship.



PHILLIP BONHOMME, electrical engineering, Ph.D., has always loved science and technology. Currently, he is working as a Graduate Research Assistant at Georgia Tech in the area of semiconductors at the device and circuit levels. He is also working on a grant from

Intel characterizing devices based on spin transport in conductors.



JUSTIN BOONE received his Bachelor of Science degree in electrical engineering with honors from Southern University A&M College in May of 2009. In May of 2011, Mr. Alexander received

the Master of Science degree in Electrical Engineering from the University of South Florida. He attributes much of his success during and after his matriculation at Southern University to LS-LAMP. During each semester, he was required to conduct research and attend weekly seminars that focused on the importance of receiving advanced degrees, summer internships, and full-time employment. As a freshman, Mr. Boone participated in a National Science Foundation (NSF) REU program on Sustainability at Michigan Tech University where he focused on implementing windmills for everyday use as an alternative energy resource. As a senior at Southern University, he received NASA's Louisiana

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Undergraduate Research Assistantship (LURA) and performed research on the “Fabrication of Thin Film Thermistors” which he later presented at the American Canadian Conference for Academic Disciplines in Toronto, Canada. Mr. Boone was awarded the NSF Bridge to Doctorate Fellowship at the University of South Florida to work on his Master’s degree and transition into the Ph.D. program for electrical engineering.



BETTY BOOKER from Sacramento, California, received a Bachelor of Science degree in biology from Grambling State University in 2003. She pursued her Ph.D. degree at the University of Alabama at Birmingham. She was named UNCF-Merck Fellow graduate student in 2009. Booker's

research, under the mentorship of Patrick Higgins, Ph.D., UAB Professor of Biochemistry and molecular genetics, involved deciphering the role of chromosome dynamics in salmonella typhimurium and e-coli during fastidious growth. The award-winning research proposal submitted to Merck focused on the role of highly transcribed genes on chromosome structure in salmonella typhimurium. She presented her findings at the 2009 UNCF-Merck Fellows Conference and the Molecular Genetics of Bacteria and Phages Meeting at the University of Wisconsin in Madison. Her previous research involved studies at Johns Hopkins University and Thomas Jefferson University. Dr. Booker’s awards and honors include the National Science Foundation (NSF) GK-12 Doctoral Fellowship (2004-2005), American Society for Microbiology Fellows (2007), Gordon Research Conference-Chromosome Dynamics Travel Award (2007), Biotechnology Institute (BIO) Minority Fellows (2008), National Institutes of Allergy & Infectious Diseases-INRO Fellows (2009), and a NIH-IRACDA Postdoctoral Fellows at University of California, San Francisco (2009).



ASHLEY LYNN CAGLE was the first post Katrina *cum laude* mathematics graduate from Southern University at New Orleans (SUNO). She obtained her Bachelor of Science this past May and is now enrolled in

SUNO's Alternative Certification Program to receive her teaching certificate as well as working as the new

administrative assistant to the athletic director. She has multiple summer research experiences under her belt including working at Tulane University, Auburn University, and SUNO. Just this past year she won third place at the national Beta Kappa Chi/National Institute of Science (BKX/NIS) conference for her research in SMART table. She was the president of BKX for SUNO for two years as well as holding the crown for having the highest GPA in the math department at SUNO for three years. While at SUNO she was under the advisement of Dr. Joe Omojola and was chosen to be an alliance scholar as well as a “Who's Who Among American College Students.” Ashley was mentored by Dr. Joe Omojola.



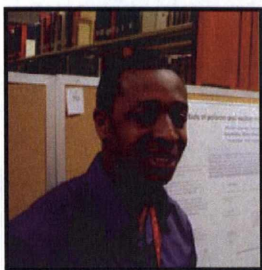
PAIGE CHANDLER received her Bachelor of Science in animal science from Louisiana State University in May 2011. As an undergraduate, she conducted research in the lab of Dr. Cristina Sabliov. Her research focused on nanoparticles for drug delivery applications. Her work was published in the Journal AGROFOOD Industry *Hi-tech* (2010). Ms. Chandler is currently enrolled in a Master's degree Program at Penn State in neurophysiology and will pursue a doctoral degree upon completion.



JESSICA CHANEY graduated from Dillard University with a Bachelor of Science in physics in 2007, and earned a Master of Science in industrial engineering in 2009 from The University Of Iowa. “The moment I realized

STEM was the perfect choice for me was during my involvement with the LS-LAMP program at Dillard University under the impressive mentoring of Professor Abdalla Darwish, where I was allotted the opportunity to do research on ideas that could help improve society,” stated Jessica. Jessica attributes much of her success to opportunities granted at Dillard which translated into internship opportunities at The University of Michigan and Lexmark International, and being awarded the GEM fellowship for graduate school.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School



NENIAN CHARLES graduated *summa cum laude* with the highest GPA in physics at Grambling State University. He received Dr. Judson's Presidential Scholarship and belonged to the Sigma Pi Sigma

Honors Society. He was a LS-LAMP scholar. He presented his research work at the TMS Annual Meeting, "Monte Carlo Simulation Model for Charge Transport in Polymers;" at the Louisiana Academy of Science Annual Meeting, "A Monte Carlo Approach to Electrical Conduction in Polymer;" and at the HBCU-UP National Research Conference – "A realistic approach to carrier transport in conjugate polymers," in 2008. He is currently developing a computational model for organic solar cells as a candidate for a Master of Science in Applied Physics at Louisiana Tech University, Ruston, LA, under the supervision of Dr. P. Derosa.



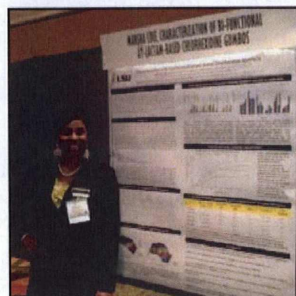
MAYA CLARK is a 2008 LSU graduate with a Bachelor of Science degree with a major in mechanical engineering. She is an Anna R. Meyers Scholarship recipient, BASF Scholarship recipient, TOPS recipient, Raytheon Scholarship recipient, and a National Society of Collegiate Merit

Award recipient. In addition, she is an INROADS Scholar. Along with these accomplishments and awards, she also was on the Chancellor's Honor Roll and Dean's List. Clark's research projects include, "*Mechanical Solid Modeling Using SolidWorks 2004*," and "*Fabrication of E-Glass Fiber Reinforced Vinyl Ester Grid Structures*," under the direction of Dr. Su-Seng Pang. Dr. Pang and Dr. Guoqiang Li served as mentors for Clark. Upon graduation, Clark worked in Washington D.C. for a few years before attending graduate school.



NITA CLARK is a 2010 LSU graduate with a Bachelor of Science degree in coastal environmental science with minors in chemistry and English. She is the first Morris K. Udall Scholar from Louisiana State University, a member of

the LA-STEM Research Scholars Program, and acknowledged as the Who's Who Among College Students. Her research mentor was Dr. Jaye Cable, and she is currently pursuing Ph.D. in Public Administration with a concentration in emergency management at the University of North Texas as a Hatton Sumners Scholar.



MARSHA R. COLE obtained her Bachelor of Science in chemistry at Grambling State University in 2007. She received American Chemical Society and Thurgood Marshall Scholarships during her

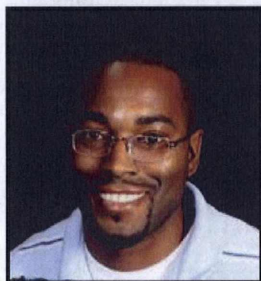
undergraduate years. She was also a LS-LAMP cadet and won 1st place at a poster presentation in the chemistry division of the MGE/MSA LAMP conference in May 2007. She went on to study for a Ph. D. degree at Louisiana State University and has obtained the following awards since then: NASA/UNCFSP Harriet Jenkins Mini-Research Award; Alpha Kappa Alpha Academic Enhancement Fellowship Award; NASA/UNCFSP Harriet Jenkins Pre-doctoral Fellowship Recipient; Ford Foundation Fellowship Honorable Mention; Best Graduate Student Literature Presentation in the LSU Analytical Chemistry Seminar and LS-LAMP Bridge-to-Doctorate Fellowship Recipient.



SILVIA I. COSENZA graduated from University of New Orleans (UNO) with a Bachelor of Science degree in biology, a Bachelor of Arts in anthropology, Minors in chemistry, Latin American and Caribbean Studies and Spanish Literature. While at UNO she was an active participant in LS-LAMP program (Science component and Social Sciences

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

component). I had the opportunity to conduct summer research on Phytoremediation at Argonne National with Dr. Negri. She also conducted research on stream ecology with Dr. Pechmann at UNO. Summer research helped Silvia to shape her future career in STEM. She presented her research findings at undergraduate research conference LRC. After graduating from UNO, she joined the USDA and while there has been conducting research on sugar dextranase and sugar refineries. She later joined the Formosan Termite unit and conducted research on baits to control Formosan termites. Currently, Silvia is working as the statistician for the Navy Recruiting Command in New Orleans, Louisiana. She has three courses left to complete towards a Masters in geography.



ROBERT CROSBY is a senior process engineer at the Intel Corporation in Arizona where he is meeting the exciting demands of HVM device scaling through the realization of novel rapid thermal annealing. He earned his Bachelor of

Science degree in physics from Southern University and A&M College in 1999. During his undergraduate tenure, he conducted research at Michigan State University and Cornell University. Robert then went on to complete his doctoral study at the University of Florida achieving a Ph.D. in materials science and engineering as a South East Alliance for Graduate Education and the Professoriate (SEAGEP) Fellow. Dr. Crosby also took part in research internships at the Naval Research Laboratory and University of California-Santa Barbara before settling into his current position at Intel.



STEPHANIE DANIELS joined the Department of Chemistry at LSU in Fall 2006. Her dissertation is entitled "*Application of Scanning Probe Microscopy for New Physical Measurements and Studies of Surface Chemical Reactions of*

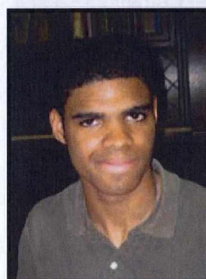
Materials at the Molecular Level." She received the Best Student Poster Award, Society for Applied Spectroscopy (2010 Pittsburg Conference), a Research Fellowship, USEPA National Laboratory, Cincinnati, OH and has four publications. Daniels received her Ph.D. degree in May 2011 and now

works as a Postdoctoral Researcher at Ohio State University.



ERIC A. DECUIR, JR. says that his purpose is to "utilize my passion for research and engineering to explore new areas of research aimed at furthering our understandings of the world around us yet facilitating the evolution of pure research to tangibles." Decuir

obtained a Bachelor of Science in electrical engineering-telecommunications in 2002. He also earned a Master of Science in microelectronics-photonics at the University of Arkansas and then went on to earn a Ph.D in Microelectronics-Photonics at the University of Arkansas.

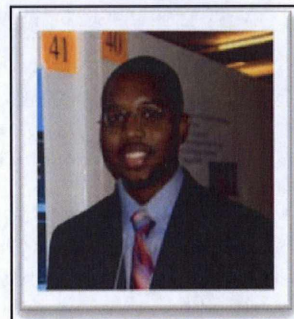


JORDAN DESPANIE received his Bachelor of Science in biological sciences from Louisiana State University in May 2011. As an undergraduate, he conducted research in the lab of Dr. Gus Kousoulas on Biovine corona virus as oncolytic agent. Mr. Despanie is currently enrolled

in a post baccalaureate program at John Hopkins Medical School. Upon program completion, Mr. Despanie plans to enroll in a doctoral program.

ANDREW DUGUE' graduated from University of New Orleans (UNO) with a Bachelor of Science. in mechanical engineering. As an undergraduate, he served as an active participant in LS-LAMP. He participated in summer research programs at AMRI

(Advanced Materials Research Institute) in 2004 & 2006 at UNO and SROP (Summer Research Opportunities Program) at the Pennsylvania State University in 2005. He also presented his research findings at the Arizona State University LS-LAMP conference in 2006 and 2007. Currently, he is working as a Contract Allocator with Shell Oil Company with Innovative Technical Services in New



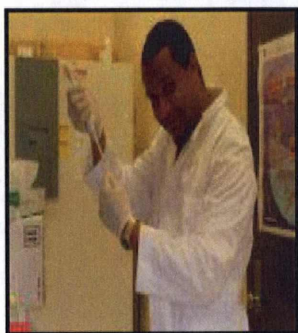
LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Orleans, LA.



JOEL K. DURAND obtained his Bachelor of Science degree in chemistry from Grambling State

University (GSU) in December 2009. He was a LS-LAMP scholar at GSU. In February 2010, he was awarded a research assistantship at the Laboratory of Bernard Weissman, Ph.D. Department of Genetics & Molecular Biology, University of North Carolina, Chapel Hill, NC. He is currently a candidate for a Ph.D. at this university. His research internship in summer 2009 at the Laboratory of Monte S. Willis, M.D., Ph.D. Department of Pathology and Lab Medicine, UNC, Chapel Hill, NC was published at "Durand, J. K. and Willis, M. S. Karl Landsteiner, MD: Transfusion Medicine. Lab Medicine. 41(1): 53–55, 2009." This research experience was a turning point in his career: "I spent the majority of my time at GSU vacillating between pursuing an M.D. or a Ph.D. in science, but that all changed in the summer of my senior year. Some of my mentors in the department, especially Dr. Miles and Dr. Hubbard suggested applying to research internships, even if it was just for the exposure. I received the opportunity to do summer research at UNC-CH and the experience left me with no doubt that science was what I wanted to do. My Ah-ha-moment was that summer, when I woke up at 2 am one morning after dreaming of my next experiment! From that moment I focused my goals toward a career in science."



MALAN EDWARD graduated from Grambling State University with Bachelor of Science degrees in biology and in chemistry. He was a LS-LAMP scholar and tutor of biology, chemistry and calculus. He was a

biomedical intern in the Cardiovascular Pathology Lab at Louisiana State University School of Veterinary Medicine, Baton Rouge, LA, in 2010. He investigated the role and effects of TNF- α and Neuro-

Hormones on the progression and proliferation of cardiovascular morbidity and its effect on the brain and kidneys. He is currently a Ph.D. candidate in neurology (Clinical Neuro-Oncology) at the University of Edinburgh School of Medicine and Veterinary Medicine (Scotland).



OSAHON ERIBO graduated from the University New Orleans (UNO), with a Bachelor of Science in electrical engineering in December 2003. While at University of New Orleans and he was an active participant in LS-LAMP conducting research on Albedo

at UNO, Electroactive Polymers while on summer research at Pennsylvania State University, and working as a science and math tutor at the UNO Student Center. During his participation in the program, he presented his research findings at DoE and LS-LAMP sponsored research conferences in the form of research papers and poster board presentations. After graduating from UNO, Eribo began working for the Defense Information System Agency (DISA) (September 2004-December 2007) as an Electronics Engineer where he served as the lead engineer for the Cross Domain Solution Service Center, which provides the Department of Defense (DoD) with the capability to transmit and receive information across two different classification network domains. Currently, he is an Electronics Engineer and Project Manager at the Office of Naval Intelligence (ONI) where he analyzes naval weapons systems and provides subject matter expertise in the field of electronic devices. He is also enrolled in the non-thesis Master of Science program in electrical engineering at the University of Delaware where his research focuses on microelectronics and nanoelectronics, an area critical to the projected future of naval weapons systems.

ELIZABETH MARIE ESTEVEZ

graduated from the University of New Orleans (UNO) with a Bachelor of Science degree in biology and a minor in chemistry. During her time at UNO, she was involved in two different research projects. Her first research experience involved the evaluation of the impact of Hurricane Katrina on the density of Chinese Tallow's seedlings in Bayou Savage National Wildlife Refuge. During her second research experience, she helped screen for the presence of



LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

transposable elements in the freshwater snail *Campelona*. As an active participant in LS-LAMP program, Estevez was able to attend and present her research at the More Graduate Education at Mountain States Alliance Student Research Conference at Arizona State University.

Since her days in LS-LAMP, she has returned to the University of New Orleans to take more classes, and is currently in the process of pursuing entrance into medical school.



DORCAS FALOFUN earned her Bachelor of Science in biology in 2011 from Southern University at New Orleans (SUNO) and has applied to Indiana University to pursue her Master of Science in public health. While at SUNO Dorcas was mentored by

Dr. Murty Kambhampati and participated in summer internship at the Brookhaven National Laboratory. Her research focuses on the relationship between plant and insects interaction and presented and won 2nd Place in Biology/Ecology Oral Presentation at the NIS/BKX Conference (Fall 2009), 3rd Place in Research Oral Presentation at (HBCU) National Conference in STEM (Spring 2010). She also won the Student National Minority Role Model Award Las Vegas, Nevada (Fall 2010).



DANNIELLE FIGUEROA, Tulane University LS-LAMP graduate with a Bachelor of Science in biomedical engineering, amassed a wide range of research experiences and awards as a scholar in Tulane's LS-LAMP program.

During the summer 2003, Figueroa was an undergraduate research assistant in the Tulane University Cartilage Tissue Laboratory. What began as just a summer project culminated as her undergraduate honors thesis. Figueroa has also conducted research at the University of Texas Health Science Center in San Antonio and is currently a graduate research assistant in the Vascular Kinetics Lab at Drexel University in Philadelphia, Pennsylvania. Dannielle stated, "As I completed my undergraduate studies, I found that my research experience led to more interviews than my

classmates," said Figueroa, who also credits her LS-LAMP mentors for helping her to select the best graduate school and graduate fellowship.

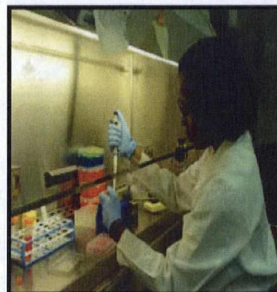


MANUEL FIGUEROA, a Tulane LS-LAMP graduate with a Bachelor of Science in biomedical engineering, experienced these opportunities after completing his undergraduate studies.

Figueroa hit the ground running conducting research in both his freshman and sophomore years. Upon graduation, Figueroa was accepted into the University of Rochester Biomedical Program with a full departmental fellowship. He was also offered a job with the Air Force Research Laboratory in San Antonio, Texas. Figueroa accepted the position with the Air Force and credits his LS-LAMP research experiences for the job opportunity.

During Figueroa's interview with the Air Force, he was able to describe in detail his freshman and sophomore years research projects, which focused on the development of laser treatments to remove tumors from breast tissue. Coincidentally, the Air Force was searching for qualified people to work in their Optical Radiation Branch which studies the biological effects of laser on skin and eyes.

"My freshman and sophomore year research experiences helped me get the job," said Figueroa.

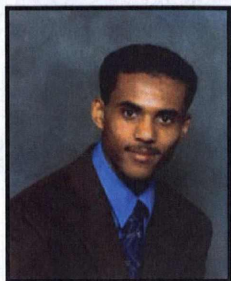


SUEAN D. C. FONTENARD graduated with a Bachelor of Science in chemistry at Grambling State University (GSU) in May 2010. She was accepted to continue her studies at the University of Alabama

at Birmingham, graduate school in biochemistry and structural biology. She was a LS-LAMP and a Presidential Merit scholar at GSU. In summer 2008, she was awarded a Howard Hughes Medical Institute Research internship in the Department of Molecular Genetics and Microbiology at Stony Brook University under the supervision of Dr. Carol Carter. She recalls her decision to pursue a career in science

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

as follows: “My moment when I decided to go into research came during my summer internship at Stony Brook. I was attending a dissertation defense and thought that “I can do this” so I switched from pursuing a career in forensic science to the research track.”



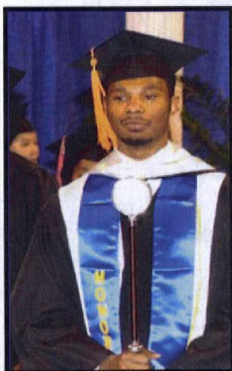
MESFIN GETANEH graduated from UNO, in Electrical Engineering with a Bachelor of Science degree. While at UNO he was an active participant in LS-LAMP and conducted summer research at Stanford, Purdue, Northwestern, and at the University of Illinois at

Urbana-Champaign (UIUC). Summer research helped Getaneh to shape his STEM career. He also presented research findings at DoE and LS-LAMP sponsored research conferences and presented many research posters. After graduating from UNO he joined the US Patent and Trademark Office (USPTO) as a patent examiner.

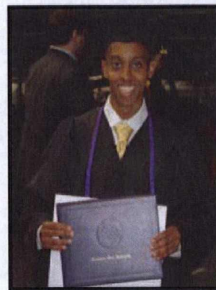
“I use the skills I learned as a researcher in my summer research at my current job as a patent examiner, such as understanding and researching new and useful innovations in technology.” States Mesfin.

Getaneh is also planning to further his STEM education by pursuing graduate studies.

JONATHAN S. GOINS, a native of Shreveport, LA, earned a Bachelor of Science degree in mechanical engineering in fall 2004. During the commencement exercises, Mr. Goins was honored as the Student Grand Marshal for having the highest GPA of his graduating class. During his tenure at Southern, Jonathan was an active participant of LS-LAMP. Through support received from LS-LAMP, Jonathan was afforded the opportunity to attend conferences around the country. He was a member of the American Society of Mechanical Engineering (ASME), the National Society of Black Engineers (NSBE), and the Pi Tau Sigma Organization. Mr. Goins is currently pursuing an advanced degree at Purdue University.



SILMON GHEBREYESUS is a 2010 Louisiana State University (LSU)



Biochemistry graduate (with a minor in Chemistry) graduated *cum laude* with a grade point average above 3.7. His honors include Sophomore Honors Distinction, Chancellor’s List and Dean’s List. His research was Dr. Brian Hales. He is planning to pursue a M.D. at the Vanderbilt University

School of Medicine.



JAMAAL H. GRANGER is a

Louisiana native and a 2002 graduate with a Bachelor of Science degree in physics. While attending Dillard University, he participated in LS-LAMP where some of his research topics included Magneto-Optical Atom Trap and DMD

Waveguides and Diffraction under the mentorship of Dr. Darwish who sparked his interest in applied physics. Following undergraduate studies, he declined a job offer with Teach for America and attended graduate school at The University of Texas at Dallas where he earned a Master of Science degree in applied physics and operations management in 2004. Afterward he accepted a job at The Boeing Company, St. Louis, MO, and currently works as an electrophysicist on multiple aircraft radar programs. He has received performance recognition awards at Boeing and was nominated to participate in the Engineering Leadership Development Program.

KELLIE GREEN

is a native of White Castle, Louisiana. In 1996, she began at Southern University as a participant of the Timbuktu Summer Bridge Institute (SBI). She majored in chemistry and mathematics and graduated in May 2001. Her interest in science education motivated her to obtain a Master’s degree in chemical education at



LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Purdue University. Kellie's Master's project investigated the differences between online and face-to-face dialogue in chemistry. In addition to writing a Master's thesis, she earned a certificate to teach chemistry. In December of 2010, Kellie completed her doctoral work in science education at Purdue University in the Department of Curriculum and Instruction. Her dissertation focused on the assessment of a research-based laboratory designed by the Center for Authentic Science Practice in Education (CASPiE). Her research project explored whether this type of laboratory intervention influenced students' understanding of the nature of science and experimental design. Kellie completed the Mirzayan Science and Technology Fellowship sponsored by the National Academy of Sciences in April of 2011. Currently, she is working as an adjunct professor at Prince George Community College. She credits her academic success to the support she received as a participant of Talent Search, Upward Bound, LS-LAMP, the Timbuktu Academy, the Ronald McNair Program, and the Alliance for Graduate Education and the Professoriate (AGEP). Dr. Green stated that, "These programs were very instrumental in my success. The programs helped me to envision obtaining a doctoral degree and working in academia, which was something that was not on my radar growing up."



WENDELL GRIFFITH obtained his Bachelor of Science in chemistry at Grambling State University (GSU) in 1999. He attended graduate school at the University of Massachusetts (Amherst) and got his Ph.D. in 2005. Immediately after his

graduation, he went to work as a Post-doc at Johns Hopkins University. He is currently an assistant professor at The University of Toledo, Toledo, OH. His research interest is in applications of mass spectrometry to understand the structure/function relationships of proteins of clinical and biomedical interest as well as their complexes with other biomolecules. He hopes to exploit the knowledge gained from these protein systems in order to improve the quality of human life.



KINESHA HARRIS has returned to Southern University and A&M College (SUBR) to give STEM students the same

quality education and mentoring she received as an undergraduate LS-LAMP scholar at Southern University-Baton Rouge. Today, Harris is an assistant professor in the Department of Chemistry at SUBR. She earned her Bachelor of Science degree with honors in chemistry from Southern University in 1999 and her Ph.D. in bio-inorganic chemistry from the University of Iowa in 2006. During her undergraduate matriculation at SUBR, Dr. Harris was a recipient of the Science and Engineering Alliance (SEA) Undergraduate Award and the American Chemical Society Organic Chemistry Award. Harris currently teaches general chemistry and biochemistry at SUBR and conducts research in the areas of natural products and protein chemistry. She is a member of a number of professional scientific organizations including the American Chemical Society, National Association of Black Chemists and Chemical Engineers (NOBCCHE), and American Association for the Advancement of Science (AAAS). She is also a lifetime member of the Girl Scouts of the USA and currently serves as a Girl Scout Leader. She is faculty senator for the College of Sciences at Southern and has served on many university and departmental committees. Harris is also a recent inductee of the Southern University NSF HBCU-UP STEM Hall of Fame as both a student and a young professor.



NELSON HAWKINS JR.

earned the Bachelor of Science degree in 2006 in biology with a minor in chemistry. Since then, he entered Baylor College of Medicine's Ph.D. Program in molecular and human genetics. Hawkins states, "It was the impact I was having in the LS-LAMP program, both

through research of Western Blotting techniques as well as tutoring colleagues in STEM disciplines that allowed me to select this career path." He has continued on the tutoring track, as a teaching assistant for a core Cell Biology course and peer reviewing candidacy examinations.



ROBERT HAYDEL

received his Bachelor of Science degree in physics from Dillard University and a Master's Degree in civil engineering from the University of Illinois at Urbana-Champaign.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Robert published his Master's Thesis, which is entitled "Channel Incision Into Mixed-Sized Reservoir Sediments Caused by Dam Removal." The LAMP experience that was the bridge to my focus of river hydraulics was during my sophomore year at Dillard University under the excellent mentoring ship of Dr. Darwish, when I researched the possibility of altering wave and current direction with submersed structures," Robert says. Robert has been employed by Camp Dresser and McKee (CDM) as a Water Resources Engineer for four years.



MATTHEW HAYES earned an undergraduate degree in computer science at the University of Louisiana at Lafayette (ULL) and a Masters Degree in science. As a

part of his LS-LAMP activities, he performed research in data compression under Dr. Dmitri Perkins. At the 2004 LS-LAMP Student Conference, he presented a proof-of-concept algorithm for performing data compression. 2009 and 2011 Choose Ohio First Fellowship and 2009 presently a Graduate Assistance in the Area of National Need (GAANN) Fellowship recipient. Hayes knew from a young age that he wanted to pursue a degree in computer science. At the age of 6 or 7 years old, he would write programs on his old Apple IIe, and that eventually grew into a larger love for computer science. He never considered any other major for college.



DEMETRIA HENRY completed her Bachelor of Science in biology in 2010 from Southern University at New Orleans (SUNO). She realized STEM was for her when she found out the abundance of

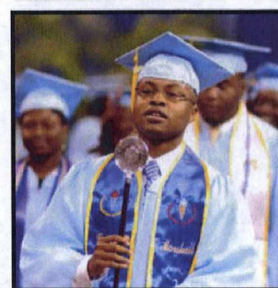
opportunities in the field of Biology. She conducted research with Dr. Illya Tiesel and participated in several conferences. She was the President for Beta Beta Beta Scientific Honor Society SUNO Chapter, a member of the National Institute of Science, and was elected as Senior Class President. She is also a member of AmeriCorps. She is employed with Digital Opportunity Trust (DOT) where she will be

integrating 21st century technology in classroom assisting teachers with their technology needs.



WHITNEY I. HENRY obtained her Bachelor of Science degree in biological sciences from Grambling State University (GSU) in May 2010. Harvard University awarded her a full scholarship in its

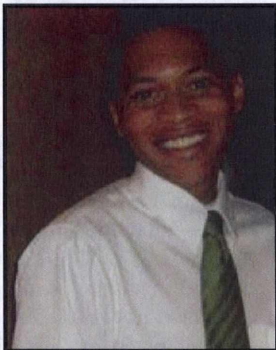
biological and biomedical sciences program to pursue a Ph. D. degree. She is currently studying at this university. She was a LS-LAMP scholar and performed research at Grambling State University. Her research is currently published at "Henry, W., Dubois, J., Quick, Q. (2011). The microtubule inhibiting agent epothilone B antagonizes glioma cell motility associated with reorganization of the actin-binding protein α -actinin 4. *Oncol. Rep.* 25(3):887-893." She was also awarded summer internships at Toker Laboratory, Dept. of Pathology, Beth Israel Deaconess Medical Center Harvard Medical School, Brookline, MA, and at Kohler Laboratory, Dept. of Internal Medicine, UT Southwestern Medical Center, Dallas, TX. About her decision to pursue a science degree, Whitney said: "I realized that I was very passionate about research during my summer internship at UT Southwestern in the lab of Jennifer Kohler. One weekend during that summer, I was given the opportunity to attend a visit, organized for students interested in pursuing a career in dentistry, at the University of Arizona. It was not long before I noticed that unlike the other pre-dental students who were extremely eager to learn about dental school, all I seemed to want to talk about was the experiments that I was currently conducting back at UT. I distinctly remember scribbling ideas for the next set of experiments that I should perform once I returned back to the lab."



JULIAN K. HERBERT graduated as Student Grand Marshal with a Bachelor of Science in computer science from Southern University and A& M College in fall 2008. Mr. Herbert believes that LS-LAMP was the source of much of his success during his

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

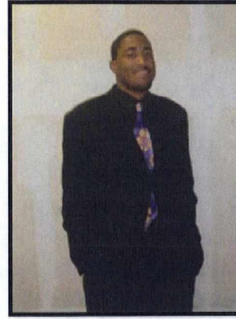
matriculation at Southern. During each semester, he was required to attend weekly seminars that focused on the importance of receiving summer internships as well as advanced degrees. He believes that these educational LS-LAMP seminar sessions are what led to his summer internships as an undergraduate that paved the way for a career in the field of Computer Science. In May of 2006, Mr. Herbert began his journey as a SharePoint Support Analyst Intern with Texas Instruments in Dallas Texas, where he managed new hardware installation and created test scenarios for new features of the TI SharePoint environment. He reprised his role in August of 2007-December 2007 and completed a Co-op at Texas Instruments. During the summer of 2007, Mr. Herbert served as an ATLAS Scholar Intern at the Johns Hopkins University Applied Physics Laboratory where he developed crystal reports for hardware and software licensing tracking and conducted research of storage technologies. Mr. Herbert is the recipient of many scholarships and awards including the Louisiana TOPS Performance Award, the Southern University Academic Excellence Scholarship, as well as the Computer Science Academic Scholarship. Mr. Herbert is currently employed with Texas Instruments as an Object Engineer.



A native New Orleanian, **JASON HICKS** obtained a Bachelor of Science in physics at Dillard University in May 2008 and will receive a Master of Science in geology from Louisiana State University in December of 2011. While participating in LS-LAMP at Dillard,

under the mentorship of Dr. Abdalla Darwish, Jason was introduced to geology during a 6-week intensive geological field campus course in south central and western United States. Upon completion, he conducted a short independent research project in seismic methods. He continues his comprehensive research in geology through projects which involve both field data and acquisition and computer analysis.

Jason's master's thesis is entitled, *"Investigation into the cause of earthen embankment instability along the 'V-line' artificial levee in Marrero, LA, USA."*



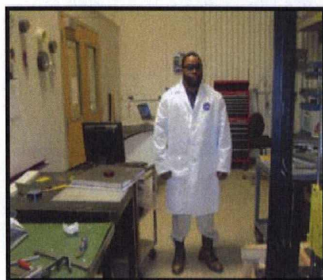
JOSEPH HICKS was involved in LS-LAMP from 2001, when he entered Dillard University, until his graduation in physics in 2005. Through this participation in LS-LAMP, Joseph was chosen to attend numerous conferences and summer research programs designed to expose him to more extensive scientific research as he was mentored by Dr. Abdalla Darwish during his years at DU. Upon completion of his studies at Dillard, Joseph earned a master's degree in physics from Tulane University in 2008. He credits the rigors of his academic program at Dillard, mentoring of Dr. Darwish, and his vast opportunities for research as further preparation for graduate study. "I am a better scholar and scientist for having had the LS-LAMP Program in my life," says Joseph. Joseph is continuing his pursuit of a Ph.D. in physics.



WAKEEL IDEWU, Civil Engineering doctoral graduate, has received a number of awards including the 2008 National Science Foundation Bridge to Doctorate Award, Donald W. Clayton Excellence Award, Program Award, 2005-2008 HBEC/Office of Naval Research Future Faculty Fellowship, 2005 Minority Engineering Program Graduate Student of the Year, 2005-2006 Graduate Alliance for Education in Louisiana Award, 2004 Gregory S. McClelland Memorial Scholarship, SASHTO/Max Nassar civil engineering Award, 2003, and the John E. Chance & Associates Scholarship and won third place for his oral presentation at the LAMP Conference. He is also a recipient of the Captain Gleen Dupuis Endowed Scholarship, 2001, National Academic All-American Award and Arthur Ashe Award.

"A friend of the family suggested I look into Civil Engineering since it is very diverse," says Idewu.

"Becoming a Civil Engineer was a goal I set for myself," adds Idewu. Currently, Idewu is an assistant professor at the Virginia Military Institute.



ENRIQUE JACKSON earned a Bachelor of Science degree in physics from Dillard in 2002. As an undergraduate student at Dillard University, Enrique conducted research

under the mentorship of Dr. Abdalla Darwish concerning the Lithium Niobate Crystal and the Electron Paramagnetic Resonance (EPR) study. His participation in LS-LAMP led to his first publication in *International Society for Optical Engineering*, Volume 4459, July 2001 entitled, "Investigation of the photosensitivity of the Lithium Niobate Crystal: Barium Ferrate Crystal" as co-author with Professor Darwish".

He went on to receive a Master of Science degree in materials science from Norfolk State University, an Master of Arts in physics from Fisk University, and is currently a Ph.D. candidate in materials science at Vanderbilt University with an expected graduation date of 2013. Enrique is currently conducting research on carbon nanotubes as they are implemented into nanocomposites. Enrique Jackson currently serves as an AST, Materials and Structures Engineer at the NASA George C. Marshall Space Flight Center in Huntsville, AL.



ALRICA JOE graduated with honors with a Bachelor of Science degree in chemistry from Southern University and A&M College in May of 2008. She was an active member of LS-LAMP during her undergraduate studies. Due to the various

summer research opportunities provided by LS-LAMP, Ms. Joe was afforded the opportunity to work in industry and at universities. Specifically, she interned with Chevron Oronite Oak Point Plant as a Process Engineer and Analytical Chemist during her freshman year. In the summer of 2005, she completed an internship at Iowa State University where she investigated microarray data using Principal Component Analysis (PCA). This enriched summer experience led to her first publication, a co-authored

scientific paper entitled, "A Novel Data Mining Method to Identify Assay-Specific Signatures in Functional Genomic Studies." She also interned with the Louisiana Biomedical Research Network (LBRN) program at Louisiana State University. In 2007, she was involved in the development of the nation's first Nuclear Geological Repository-the Yucca Mountain Project. These opportunities were not by chance, but were due to her involvement as a LS-LAMP Scholar. Ms. Joe's tenure with LS-LAMP did not end after she graduated. For a year after receiving her BS, she was employed as the Graduate and Research Recruiter for SUBR-LS-LAMP. Her duties included the dissemination of research internships and graduate school opportunities. She also encouraged K – 12th grade students to pursue STEM (science, technology, engineering, and mathematics) disciplines. Ms. Joe states that, "This work experience solidified my decision to pursue graduate degrees." Ms. Joe recently completed her Master of Science degree in environmental chemistry from Drexel University in Philadelphia, PA. As stated by Ms. Joe, "Due to my affiliation with LS-LAMP and academic achievement, I became one of the first recipients of the Educational Advancement Alliance (EAA), Inc. HBCU STEM Fellowship. This fellowship reminded me of the support that LS-LAMP offered me in undergrad."



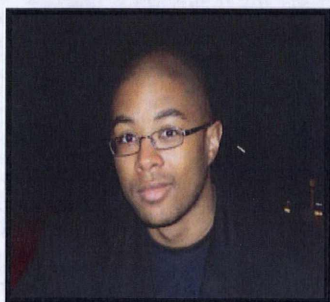
KENDRA JOHNSON earned her Bachelor of Science in Mathematics in 2005 from Southern University at New Orleans (SUNO). While at SUNO she conducted research and was awarded 1st place during the 2004 LAMP Conference and 4th place during Historically Black Colleges and Universities Undergraduate Program (HBCU-UP) Conferences, respectively. She began her career as a Regional Data Analyst for a Chemical Manufacturing company in 2007. In 2009, she was promoted to Supply and Demand Planner for North America. In August of this year, she was again promoted to the role of Global Manufacturing Analyst. Kendra was mentored by Dr. Joe Omojola.

ALLEN JONES completed his Bachelor of Science degree in electrical engineering from Southern University in 2009. He completed a dual-degree Master of Science in electrical and computer



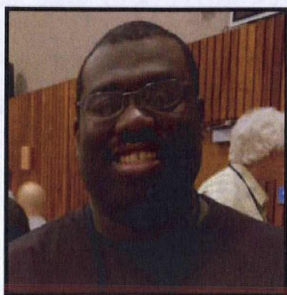
LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

engineering and industrial technology from Purdue University in 2011. Through the support of the Timbuktu Academy, LS-LAMP, and funding from both the AREU Smart Research Grant and the NASA LURA Research Assistantship, Mr. Jones conducted his undergraduate research on *"Initial Characterization of Thin Film Sensing Thermistors."* This research was published in the proceedings of the American Canadian Conference for Academic Disciplines. Mr. Jones is currently working as a Tailoring Engineer within the light duty diesel division of Cummins Inc.



BRANDON M. JONES earned his Bachelor of Science degree in electrical engineering from Southern University and A&M College in 2005. He was an active member of

LS-LAMP during his undergraduate studies. Brandon was admitted to the M.S./Ph.D program at Cornell University in 2007. He received NASA/UNCF-SP Harriett G. Jenkins Pre-doctoral Fellowship (JPPF) and the Sloan Foundation Fellowship. He was an intern at the Jet Propulsion Laboratory (JPL) and was with Boeing Satellite and Development Center prior to joining Cornell University as a Ph.D. student. Currently, Brandon is an MS-Ph.D. candidate in the school of electrical and computer engineering pursuing his interest in robotics research under the advisement of Professor Lang Tong, Irwin and Joan Jacobs Professor in Engineering. Brandon, received Best Paper Award (Space Exploration Track) at the 2010 NSBE Aerospace Systems Conference for his paper entitled *"Information Exchange in Multi-rover SLAM"*, co-authored with Prof. Tong. This award is given to researchers or industry professionals whose work shows promise to improve the current state of the art in space exploration technology.



CONRAD JONES is a 1998 graduate of Southern University with a Bachelor of Science degree in chemistry. During his undergraduate career, Conrad was a member of LS-LAMP and the Timbuktu Academy.

After graduating from Southern University and A&M College, he attended the University of Iowa and earned M.S. and Ph.D. degrees in physical chemistry in 2002 and 2004, respectively. Currently, Dr. Jones is a tenure-track assistant professor in the chemistry department at Southern University since August 2006. In 2008, he was awarded the HBCU-UP SMART Start-Up Grant for his research and has also been awarded the NASA Glenn Faculty Fellowship Award in 2010 and in 2011 to conduct research at the NASA Glenn Research Center in Cleveland, OH. Dr. Jones has seven (7) refereed publications in renowned research journals. He was also a visiting scientist at the China Lake Naval Research Facility in Ridgecrest, California in 2005. Dr. Jones credits his academic and career successes to the mentoring he received as a member of LS-LAMP and the Timbuktu Academy.



PHILLIP JONES graduated from Southern University and A&M College with a Bachelor of Science degree in physics in 2001. While at Southern, he was a member of LS-LAMP and the Timbuktu

Academy. Mr. Jones received his Master of Science degree in physics from Southern University in 2003 and a Master of Science degree in Materials Science and Engineering from the Missouri University of Science & Technology. Phillip is currently enrolled in the Ph.D. Environmental Toxicology Program at Southern University. Moreover, Mr. Jones has conducted summer research at prestigious institutions both in the United States and internationally. His research internship sites include Stanford University, Princeton University, Cornell University, and National University of Singapore. To add to his credit, he has served as a co-author on three (3) research papers in scientific journals. During the summer of 2011, Mr. Jones was awarded the National Science Foundation (NSF) East Asia and Pacific Summer Institutes (EASPSI) Fellowship. As such, he was able to travel to East Asia to work in the Department of Bioengineering at the National University of Singapore. While in Singapore, he prepared microencapsulated biomolecules using reverse phase layer by layer deposition for encapsulation of water soluble biomolecules for drug delivery applications. After receiving his Ph.D., Mr. Jones plans to pursue a post-doctoral research assistantship to further prepare for his scientific career.



CHRISTINA JONES, 2009 Louisiana State University chemistry graduate, has a number of honors including the 2009 A.P. Tureaud Milestone Award, Phi Beta Kappa Society, Outstanding Research Achievement Award, George L. Robertson Scholarship, LSU Black Faculty and Staff,

Howard Hughes Medical Institute Exceptional Research Opportunities Program (EXROP), and is in the ACS Scholars Program. Her undergraduate research advisor was Dr. Isiah Warner. She is currently pursuing a Ph.D. in Chemistry at the Georgia Institute of Technology.

RASHAAD JOSEPH

holds the distinction of being the first chemistry graduate (December 2007) at Grambling State University (GSU) to complete the undergraduate concentration in forensic chemistry. After



graduation, Rashaad was hired by the United States Department of Energy/National Security Administration in Amarillo, Texas. He relocated to Tampa, Florida, and was hired by the Coca-Cola Refreshments Company in Auburndale in the capacity of laboratory technician. Since that time, he has been promoted to laboratory coordinator and leads a team of workers. The Coca Cola Company's McDonald's Division honored him with the Waddy Pratt award on April 12, 2011. This award is named in honor of Mr. Claude "Waddy" Pratt, the first leader of the McDonald's Division and a retired executive vice president of Coca Cola. Joseph received this recognition for his lead work on the commissioning and validation of the Frozen Strawberry Lemonade product that is sweeping the country this summer at McDonald's. Coca Cola was commissioned by McDonald's to develop the Frozen Strawberry Lemonade product. During the commissioning and validation, the product was developed, analyzed, and tested for reproducibility. At the end of the validation process, the Frozen Strawberry Lemonade product moved to production. Joseph has been recognized by the company for exemplary performance and received the Coca Cola Mega Tag bronze level award. He has also been recognized for his work on

the development of McDonald's Mc-Cafe products- Strawberry-Banana & Wild Berry Smoothies.



ADA KWANBUNBUMPEN graduated from Southern University at New Orleans (SUNO), *magna cum laude* with a Bachelor of Science and Master of Science in computer information systems, December 2004 and May 2006. As a LAMP scholar, she and her

mentor Dr. Adnan Omar hold five (5) publications together. Throughout her undergraduate career, she was an active research and teaching assistant and has since given back to her Alma Mater by currently serving as the Coordinator of Institutional Effectiveness, by mentoring first-time freshmen and adjunct faculty at SUNO as well as Tulane University. Her research interests are Computer Ethics, Computer Information Systems, Distance and E-Learning, Enrollment Trends and Institutional Research and Effectiveness.



EDWIN LEE II graduated from Louisiana State University (LSU) in 2010 with a Bachelor of Science degree in electrical & computer engineering and minors in mathematics & computer science. His undergraduate honors include the LSU Tiger Twelve 2009,

2007 Order of Omega Outstanding New Member, 2008 Order of Omega Outstanding President, and Leadership LSU. His undergraduate research mentors were Dr. Martin Feldman and Dr. Gabrielle Allen. He is currently pursuing a Ph.D. in electrical engineering at the Ohio State University.

TORINA LEWIS, a former LS-LAMP student at Southern University at New Orleans received her Ph.D. in mathematics from the University of Mississippi in December 2010 and was appointed as an Assistant Professor of Mathematics at Bethune Cookman University. She was mentored by Dr. Joe Omojola, Mathematics and Physics Professor.





KIM LEWIS graduated from Dillard University in 1998 with a Bachelor's degree in physics. Dr. Lewis participated in LS-LAMP under the mentorship of Dr. Sylvanus Nwosu, Associate Professor of Physics. She describes her undergraduate research experience as a

tremendous help toward a deeper understanding of her course work in physics, and a greater focus on her research goals as a graduate student. Dr. Lewis is credited with a patent, "*Charge Transformer and Method of Implementation*," U.S. Patent No 6,777,911 (August 17, 2004).

Dr. Lewis received a Master of Science degree in electrical engineering in 2003 and a Ph.D. in applied physics in 2004 from the University of Michigan, Ann Arbor, MI. She currently serves as Assistant Professor of Physics, Applied Physics & Astronomy at Rensselaer Polytechnic Institute in Troy, NY.

(NOT PICTURED) ANDREA LEWIS obtained her Bachelor of Science degree in microbiology with a minor in chemistry from the University of Louisiana at Lafayette. She was involved in the Biology Society and Omega Phi Alpha National Service Sorority. She was also a Ronald E. McNair Scholar and was an athletic academic coach for Ragin' Cajun student athletes. In the community, Ms. Lewis volunteered with Hearts of Hope, United Way, Kumon Learning Center, Amelia Manor Nursing Home, Lady of the Oaks, Girl Scouts of America, Acadiana C.A.R.E.S., Habitat for Humanity, Special Olympics and Good Hope Baptist Church. I was a Research Assistant for a summer at the University of North Carolina at Chapel Hill. Prior to that I was a Research Assistant at Fossil Rim Wildlife Center. I plan on completing a one-year internship with the National Institute of Health in Maryland and plan to obtain my M.D./Ph.D at Emory University in Georgia .Stanford Ph.D. candidate and University of New Orleans LS-LAMP graduate (electrical engineering),



JOLENE MCCASKILL admitted that initially she did not perform to her potential during her undergraduate studies, but the LS-LAMP program helped McCaskill

to discover her talents, which also helped her to excel academically.

"LS-LAMP was the first time that I felt that my talents were recognized," said McCaskill. "My experience with LS-LAMP and LS-LAMP Campus Coordinator Ashok Puri are the sole reason that I am at Stanford University."

Puri encouraged McCaskill to take advantage of internship opportunities. McCaskill eventually began tutoring other LS-LAMP scholars. It was during her time as a tutor that McCaskill realized that she had a talent for taking difficult concepts and breaking it down where the concepts could be more easily understood. Currently, McCaskill is in her final year of Ph.D. studies at Stanford University in Geophysics.



CARMEN MALDONADO is currently pursuing and M.D. in pediatrics. She recently graduated from Louisiana State University with and MPH degree, Class of 2011. She also

attended Southern University at New Orleans and earned Bachelor of Science degree in biology (Class of 2009). During her tenure at SUNO, she participated in LS-LAMP, HBCU-UP, and STEM programs. I received several academic and research scholarships and awards from LS-LAMP, HBCU-UP, STEM, and DoE in recognition of my academic status, research interests, and undergraduate research conference presentations. In addition to my academic excellence, I participated in two Science Undergraduate Laboratory Internships (SULI) Program during summer (2007 and 2008) at Brookhaven National Laboratory (BNL) sponsored by the Department of Energy. As a result of my summer research experience, I presented my research projects at several national and regional conferences and published research abstracts in conference proceedings. I thank Dr. Murty Kambhampati for his mentoring and guidance throughout my career at SUNO. Under his leadership I was able to secure admission at LSU and completed my Master's degree in Public Health. It is through Dr. Murty Kambhampati's guidance I have been able to grow as a student and researcher. I am honored to have such a dedicated mentor.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School



MELVINA MARTIN is a 1997 graduate of the Biological Science program at Grambling State University. She entered a graduate program in the

Cellular & Molecular Biology Department at Tulane University. In 2000, she completed the requirements for the Master of Science degree in Toxicology and in 2006 was awarded the Doctor of Philosophy degree in Molecular & Cellular Biology from Brown University. She worked as a Post-Doctoral Fellow at the National Institute of Health's National Cancer Institute and is currently a research associate at Brown University.



COLLIN MILLER, is a 2011 Louisiana State University (LSU) graduate with a Bachelor of Science degree. This exemplary scholar was a University Medalist and completed his undergraduate studies *summa cum laude* with a perfect 4.0 grade point average. His undergraduate Honors include the Huel D.

Perkins Leadership Award, Howard Hughes Medical Institute Exceptional Research Opportunities Program (EXROP), 2010-11 Greek Leader of the Year, and Phi Beta Kappa. His undergraduate research advisor was Dr. Robert Larkin and he plans to pursue a DDS/PhD at LSU School of Dentistry.



OLIVIA MITCHELL has taught middle school mathematics in Atlanta Public Schools since she graduated from Dillard University in 2006. She was named LJ Price Middle School Teacher

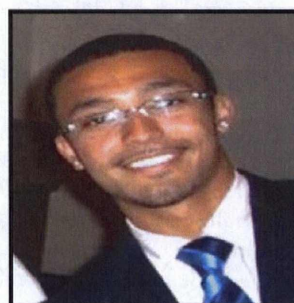
of the Year (2009-2010), District Middle School Teacher of the Year, and the Atlanta Public Schools District Teacher of the Year (2009-2010).

Olivia completed her Masters in Teaching Mathematics (M.A. Clark Atlanta University May 2011) and will complete her Masters in Pure Mathematics (M.S. Clark Atlanta University May

2012). Currently Olivia teaches collegiate mathematics at Atlanta Metropolitan College.

Olivia describes her goal to incorporate a love for mathematics education and her specialized abilities in data analysis and organization, to either implement change in the form of new proposals for secondary mathematics or the development of a charter school for math and science.

Olivia credits the mentorship of Dr. Abdalla Darwish and LS-LAMP for providing 1st class experiences in the sciences that has fostered a passion to expose inner city youth to various opportunities in math and science fields.



TAYLOR MORRIS is a 2011 Louisiana State University graduate with a Bachelor of Science Degree in mechanical engineering and minor in fine arts. Taylor's national honors include the NSF Graduate Research

Fellowship, the GEM Fellowship, and the LSU Tiger Twelve, LSU Distinguished Communicator. He was also a British Marshall Scholar Nominee. His research advisor was Dr. Brygg Ullmer, and he plans to pursue a Ph.D. in mechanical engineering at the Massachusetts Institute of Technology.



KELLY NASH was a LS-LAMP participant who went on to get her Ph.D. in physics from the University of Texas at San Antonio in 2009. Kelly graduated from Dillard in 2000 with a dual degree in physics and mathematics and

received the Master of Science in applied physics from the University of Michigan in 2003.

Dr. Nash's research focus is the facile synthesis of inorganic/organic nanocomposites, including loading of nanoparticles in polymeric films and core shell particles of various geometries. She has published numerous refereed articles.

Dr. Nash credits her undergraduate research experiences for a competitive edge in her applications and acceptances to graduate school. Kelly stated that

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

her “background showed a wide variety of research experiences, ranging from simulations to experimentation.” Dr. Nash says, “Through the years, I often find myself contacting my LS-LAMP mentors for advice and still can count on the same level of enthusiasm and encouragement that I received from them as a student.”



JONES NJI joined the Department of Mechanical Engineering at LSU in Fall 2007. His dissertation is entitled “*A Biomimic Self-healing Shape Memory Polymer Based Syntactic Foam Core for Structural Composites.*” By co-

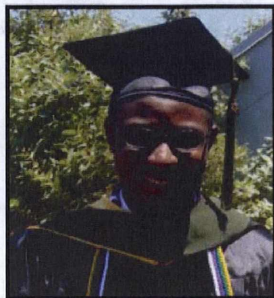
authoring with his advisor Dr. Guoqiang Li, Nji has published five refereed journal papers in several top-notch composites journals. He has won the Best Ph.D. Student Paper Award, Second Place, at the 2011 ASME/PVP International Conference in Baltimore, Maryland on July 29, 2011. Nji received his Ph.D. degree in May 2011 and now works as a Senior Mechanical Engineer at Albemarle Corporation in Baton Rouge, Louisiana.



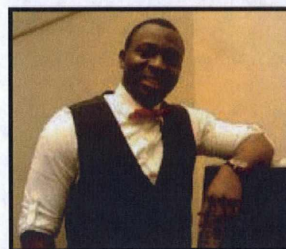
CISCA ODOHOFRE is a 2008 Louisiana State University graduate with a Bachelor of Science in biological sciences. Her undergraduate research projects were entitled “*Minimal Binding Site of S-Adenosylmethionine to the S-Box of Bacterial Riboswitches*” and “*Alternate Mechanism of Translation in Cell Cycle Regulation.*”

IFEANYI CHUKWU

ONOR graduated *summa cum laude* from Southern University at New Orleans (SUNO) with a Bachelor of Science in biology in May 2007. While at SUNO, Ifeanyi was mentored by Dr. Murty Kambhampati, a Professor of Biology, and was the president of National Institute of Science SUNO Chapter. He participated in research and



attended several national and regional conferences. He entered into Xavier University School of Pharmacy and earned his PharmD degree with *summa cum laude* honors. While at Xavier University, he became the chaplain, International Relations Committee Chair, Student president, and class president.



JOHN KALU OSIRI obtained his bachelor degree in chemistry at Grambling State University in 2004. He entered the Louisiana State University graduate school in August 2005 and

ended his Ph. D. studies in May 2010. His dissertation title was “*Platforms and Protocols for the Multidimensional Microchip Electrophoretic Analysis of Complex Proteomes.*” He engaged in biotech research while working as a Laboratory Manager/ Research Associate in Voiland School of Chemical Engineering and Bioengineering at Washington State University. He is broadening his horizons into a business career and received a Ph.D., in International Business & Entrepreneurship at the University of Florida. He is founder of Shookhands, co-founder of the Journal for the Advancement of Developing Economies (JADE), creator of Global Credit Monitor (Gayafirma), founding President of the Institute for the Advancement of Developing Economies (IADE), and member of the Center for Entrepreneurial Studies at Washington State University (WSU). He is a Clinical Assistant Professor, at the College of Business at WSU.



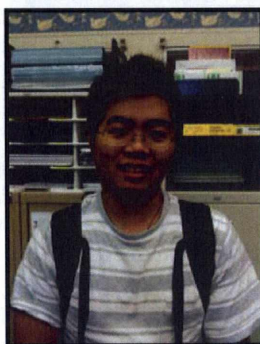
MICHAEL PARENT is a 2010 Louisiana State University (LSU) graduate with a Bachelor of Science degree in chemical engineering. He completed his studies as *magna cum laude* with nearly a 3.9 grade point average. His honors included the Barry M. Goldwater Scholarship, LSU

Top 100 Scholarship, Chancellor's List, National Dean's List, & AIChE Senior Scholarship Award. His undergraduate research mentor was Dr. Julia Chan. He pursued a Ph.D. in materials science at the Massachusetts Institute of Technology.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

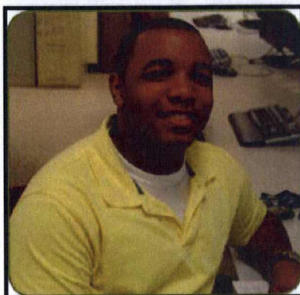


LATOYA PAUL joined the Department of Biological Science at Louisiana State University in Fall 2004. Her dissertation is entitled “*Embryonic Nicotine Exposure and its Impact on Spinal Neuron Development in Zebrafish.*” By co-authoring with her advisor Dr. Kurt Svoboda, she has published three refereed journal papers. She has won first place in Doctoral Poster Presentation (*First Place-\$250*) and Oral Presentation at the Seventh Annual WAESO/MGE@MSA Student Research Conference in Phoenix, Arizona and the Society for Neuroscience Convention, San Diego, CA. Paul received her Ph.D. degree in May 2011 and now works as a Postdoc and an Instructor at the University of Alabama at Birmingham.



TAN D. PHAM obtained a Bachelor of Science in electrical engineer in May 2008. He is currently pursuing a master degree in electrical engineering. After graduation, he plans to work in industry to gain more in-field experience. He also plans to pursue a Ph.D. upon completion of his masters studies. Pham has one publication in progress. He uses his skills and LS-LAMP experiences to mentor and tutor students.

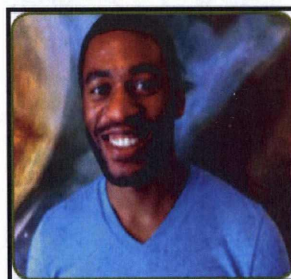
“I had loved science and engineering since I was a kid watching documentaries and science fiction videos,” says Pham. “Following the STEM program is a natural progression for my education and career.” Pham adds that he has a love for science/engineering and hopes to use his experiences to help his community and family.



BRANDON PITTS, industrial engineering graduate, Louisiana State University (LSU) says that the research experiences and academic support provided by LSU LS-LAMP has impacted

his personal and professional life introducing him to a lifetime of learning. Pitts is also thankful for the academic standards set by LS-LAMP. “The standards set by the program to maintain high academic achievement motivated me to continue to work hard and graduate with Latin honors,” says Pitt.

For Pitt, attending graduate school was a dream and LS-LAMP gave him the preparation, experience, knowledge and confidence to make his dream a reality. As a LS-LAMP scholar, Pitt was exposed to research in state-of-the-art research facilities around the nation, including the National Advanced Driving Simulator and the LSU Agricultural Center’s LA HOUSE. Pitt is an NSF Graduate Research Fellowship recipient and is pursuing a Ph.D. in industrial and operations engineering at the University of Michigan-Ann Arbor.



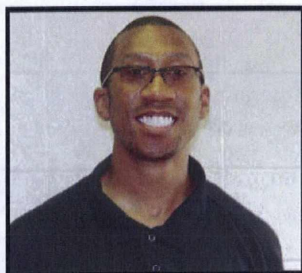
In May 2004, Southern University LS-LAMP Scholar **ANTHONY**

PULLEN earned a Bachelor of Science in physics and led Southern University’s spring commencement ceremony as the chief student marshal of the spring 2004 graduating class. As if his top scholar status was not enough, Pullen received more great news. He did not have to worry about graduate studies because he had received acceptance letters from four of the nation’s top research universities—Stanford, Berkeley, MIT and Princeton.

Pullen’s research interests include cosmic microwave background radiation and astrophysical constraints to dark matter and dark energy.

While at SUBR, Pullen received the Student of the Year Natural Sciences Award and was a NASA scholar from 2001 until he graduated in 2004. At Caltech, he received the Minority Undergraduate Research Fellowship and the National Science Foundation Graduate Research Fellowship. Pullen has earned a Ph.D. in Theoretical Astrophysics from Caltech.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School



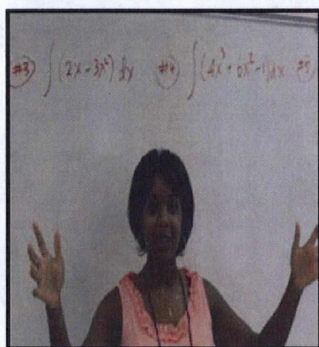
EUAL ABRAHAM PHILLIPS, JR. obtained his Bachelor of Science in chemistry at Grambling State University in May 2009. He was a LS-LAMP scholar and

was awarded the United Negro College Fund Merck Undergraduate Science Research Scholarship for the 2008/2009 academic year. He attended the “Fellows Day” in Blue Bell, PA on June 21- 25, 2008. He was an intern at a Merck Research Laboratory during the summers of 2008 and 2009 and received additional compensation for these summer experiences. After graduating, he went on to the University of Pennsylvania to obtain a Master of Science in engineering in 2011.



SHAN'TERIKA REMO received her Bachelor of Science in chemistry from Louisiana State University in May 2011. As an undergraduate, she conducted research under Dr. Graca Vicente in the Department of Chemistry. Her research focused on synthesis and characterization of

biological active compounds. Ms. Remo is currently working as a research associate at the LSU School of Veterinary Sciences. She is also currently applying to doctoral programs.



SANDRA RICHARDSON graduated Dillard University *magna cum laude* with a Bachelor of Science degree in mathematics in 2000. She went on to earn the Master of Science and Ph.D. in mathematics

education from Purdue University. Richardson currently serves as Assistant Professor of Mathematics and Mathematics Education at Lamar University in Beaumont, TX, where she has developed original courses designed for elementary

and secondary school teachers in mathematics. Richardson has continued to engage in research and scholarly activities, with a particular interest in preparing 8th and 9th grade mathematics teachers to use technology, pedagogy, and content knowledge in the teaching and learning of algebra. She has received funding for ongoing research initiatives. Sandra is positioned to become a master educator in the field of mathematics.



ERNEST RICKS graduated *cum laude* from Grambling State University with a Bachelor of Science in biology in July 2004. He was admitted to a Ph.D. program at Morehouse School of Medicine (MSM) that summer. He joined the

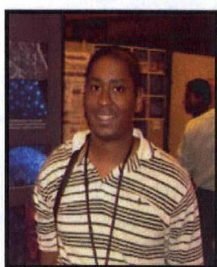
Cardiovascular Research Institute at MSM and was awarded a National Institutes of Health Fellowship in 2006. During the fall of 2008, Ricks joined the laboratory of Dr. Method Bacanamwo and started a project centered on the role of epigenetics in vascular cell fate. Research findings from this project could be useful in prevention of atherosclerosis, hypertension, and congestive heart failure. Ricks received his Ph.D. in Biomedical Sciences from Morehouse School of Medicine, Atlanta, GA, in May 2011. Dr. Rick's goal is to become a biology professor at a minority-serving institute similar to his beloved Alma Mater. In pursuit of this dream, he has been accepted to the FIRST program at Emory University. This program is designed to train new postdoctoral students in the most effective pedagogical approaches to teaching today's students.



ASHLEY ROBINSON is a 2008 LSU graduate with a Bachelor of Science in information systems and decision sciences. Her undergraduate research projects were entitled, “*Electronic Exchanges via Internet, Hackers in E-Commerce and E-Banking: To*

Trust or Not to Trust” and “*The Meaning of Diversity*”.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School



RAPHYEL ROSBY joined the Department of Biological Science at LSU in Fall 2007. His dissertation is entitled “*Genetic and Cytological Investigation of Nucleostemin-1 in Drosophila melanogaster.*” By co-authoring with his advisor Dr. Patrick DiMario, Raphyel has published two refereed journal papers. He has won the 2006 Southern Regional Education Board Travel Award and the 2006 American Society for Cell Biology-Minority Affairs Committee Travel Award. Rosby received his Ph.D. degree in May 2011 and now works as a Post-doctorial Research Assistant at Brown University in Providence, Rhode Island.



STEPHANIE SIGERS-PIERCE, completed the dual degree program between Dillard University and the Georgia Institute of Technology, where upon receipt of a Bachelor of Science in physics in May 2005 from Dillard, she received a BS in Mechanical Engineering from Georgia Institute of Technology in December 2006. While at Dillard, she completed a number of internships with the first being the LS-LAMP program prior her enrollment as a freshman. Consecutive internships included three research programs at Tulane, Pennsylvania State University, and Georgia Tech, as well as two corporate internships with Marathon Oil Company, which secured a full time engineering position a semester prior to graduating from Georgia Tech. In January 2007, she relocated to Houston, TX to work for Marathon Oil Company as an offshore Facilities

Engineer in the Gulf of Mexico asset team. Since graduating from college, she has consistently given back to the community and helped continue to expand interest in STEM disciplines. I am grateful to my Mentor Dr. Darwish who taught us how to give back to our community as LS-LAMP gave and supported us” stated Stephanie.



TAMARA SINGLETON-GOYEA, a 2002 *cum laude* graduate in mathematics, credits her undergraduate research experience as a LS-LAMP participant in her pursuit of graduate study and continued research. While at Dillard, she took advantage of summer research opportunities at Tulane University, where she designed computer programs in mathematical for visualizing plane curves in parametric and polar form, for computing and visualizing the curvature of plane curves given in parametric and polar form, and for the involute and evolute of plane curves given in parametric and polar form.

Singleton-Goyea received the Master of Science degree in mathematics from Tulane University, and earned the Ph.D. in applied mathematics and scientific computing from the University of Maryland, College Park in 2011. Her research interests include data assimilation, ensemble Kalman filtering, scientific computing, numerical and mathematical modeling, atmospheric and oceanic sciences. Dr. Singleton-Goyea currently serves as Assistant Director for Recruitment and Co-Curricular Programs at the University of Maryland, College Park. She is also Program Coordinator for the Math Summer Program in Research and Learning (SPIRAL) at that university.



SPARKLE SPRINGFIELD obtained her degree in biology and chemistry at Grambling State University in May 2011. She was a LS-LAMP and MARC scholar. She was awarded summer internships under the JEOM program in

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

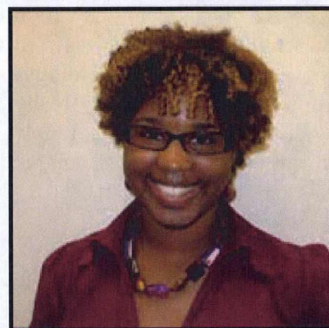
summers 2007 and 2008 at Wright Patterson Air Force Base Dayton, OH, and at Maui High Performance Computing Center Maui, HI, respectively. In 2009, she went to the University of Southern Mississippi, to be a REU intern. She was a SROP intern in the department of Kinesiology and Human Nutrition at the University of Illinois, Chicago, IL, in 2010. She is currently a Ph.D. candidate at this university. She decided to pursue a career in sciences when she figured she could make a career out of learning, thinking, and answering questions about the things that interested her---she knew STEM was for her.



MICHAEL ST. MARTIN would like to graciously take this opportunity to deliver a message of personal success; success which is firmly rooted in exposure to platforms of academia such as LS-LAMP.

“Prior to graduating from the University of New Orleans with my Bachelor of Science degree in chemistry, I participated in LS-LAMP. This participation provided me with an indispensable insight into the sciences, which was both pragmatic and theoretical. The pragmatic facet of my experience with LAMP was not only one of learning and experiencing science, but also learning how the progression from an undergraduate to professional scientist was achievable. I recall attending LAMP conferences and meetings which hosted a great variety of successful scientists, ranging from astronauts to professors of the entire spectrum of the core sciences. It is one thing to aspire for something, but it is another to have tangible evidence that my academic efforts, to which at the time seemed to have no end in sight, would actually manifest in my own personal ability to progress science as a research chemist with a PhD, just as the inspirational scientists that spoke before me- as long as I continued my efforts. Now, with only a few months away from my entire academic career’s culmination, I look at my past in retrospect and the most resounding point of inflection is that I know my current position is, and always will be, inexorably linked to support systems such as friends, family, and academic organizations such as LAMP. Although I have achieved some semblance of measurable success to date, I do not intend on stopping here. Post-graduation with my doctorate in

chemistry in early 2012, I would like to apply my abilities to the synthesis and development of potentially therapeutic molecules in the field of medicinal chemistry at a pharmaceutical company, which would usher me into a career rife with anticipation, because I do not know where that will lead; only that it began with the help of others along with a little personal motivation, derived from inspirational figures.”



KYANA D. STEWART is an assistant professor of Pharmacy Practice in the Division of Pediatrics with the Texas Tech University Health Sciences Center School of Pharmacy located

in Abilene, Texas. She received her Doctor of Pharmacy from the University of Houston, College of Pharmacy. She also received her M.S. in environmental engineering sciences from the University of Florida and her B.S. in chemistry from Southern University and A&M College. While working on her Bachelor of Science at Southern University, she was an active member of LS-LAMP and the Timbuktu Academy where she was mentored by Dr. Ella Kelley. Through her participation in these programs, Dr. Stewart was afforded the opportunity to complete two (2) summer internships conducting research with Abbott Laboratories located in North Chicago, IL. As such, Kyana was able to engage in meaningful research and develop the skills that formed the foundation for her current occupation. Her practice interests include general pediatrics and pediatric hematology and oncology. Her research interests are varied which include alternative therapies for the treatment and management of acute asthma exacerbations in pediatric patients and medication dosing in overweight and obese pediatric patients. Dr. Stewart is a member of the American Society of Health System Pharmacists and the Pediatric Pharmacy Advocacy Group.



THANH-HOA THI PHAM obtained a Bachelor of Science in mathematics in August 2010. She was awarded a recognition certificate for presenting a research paper at the MAA 2010 MathFest conference.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Since September 2010, she uses her math skills to help Upward Bound students to give back to her community. While majoring in civil engineering, Pham realized her heart really preferred doing the math so she changed her and plans to pursue a master's degree and went on to earn a Ph.D.

“Mainly, I try to stay focused and consistent,” says Pham. “I always try to finish each thing carefully step by step and one by one at a time. I believe doing any task in those manners will yield good, wonderful results” says Pham.



CACEY STEVENS obtained her Bachelor of Science degree in physics with distinction and graduated *Summa Cum Laude* as the spring 2008 Student Grand Marshal. Notably, she achieved a perfect cumulative GPA of 4.00. During her matriculation at Southern University, Ms. Stevens was a

LS-LAMP, Timbuktu Academy, and an American Physical Society (APS) Scholar. She also received numerous awards and scholarships, including the CODEFIL French Immersion Scholarship, the Louisiana TOPS Honors Scholarship, the Science and Engineering Alliance (SEA) Scholarship, and the Beta Kappa Chi National Scientific Honor Society Presentation Award. In 2008, she won the national competition for the Willie H. Moore Scholarship, a prestigious graduate award from the National Society of Black Physicists (NSBP). Moreover, Casey Stevens was chosen to receive the 2008 National Science Foundation (NSF) Graduate Research Fellowship Award. Ms. Stevens was accepted into the Ph.D. program in Fluid Dynamics at the University of Chicago in 2008 and is currently conducting her dissertation research on the effect of background gas on splashing behavior of viscous fluids on a dry smooth surface. In June of 2010, Ms. Stevens received a Master of Science degree in physics from the University of Chicago.



MONICA SYLVAIN joined the Department of Chemistry at LSU in fall 2005. Her dissertation was entitled “*Synthesis, Characterization, and Application of Molecular Micelles and Imidazolium-Based Ionic Liquids for Protein Separations in Electrophoresis.*” She has won the Analytical

Chemistry Outstanding Oral Speaker Award in 2007, the UNCF/Merck Graduate Science Research Dissertation Fellow and the National Science Foundation Graduate Research Fellow (NSF-GRFP) 2007-2009. Sylvain received her Ph.D. degree in December 2010 in Analytical Chemistry and now works as the Director of the New Orleans branch of the Posse Foundation. She formerly was an Instructor in General Chemistry at Xavier University at New Orleans, Louisiana.



ANTHONY D. STEWART completed the Bachelor of Science in physics in 1999. While at Southern University & A&M College, was a member of LS-LAMP

and the Timbuktu Academy. During his undergraduate matriculation, Anthony was supported by the National Aeronautics and Space Administration - Undergraduate Student Award for Research (NASA-USAR) to perform research at the National Institute of Standards & Technology (NIST). The work conducted at NIST led to his first publication in a peer-reviewed scientific journal and sparked his desire to be a research scientist. In 2008, he received a Ph.D. in materials science & engineering from the University of Florida where his fields of research were thin film deposition of arsenides and phosphides by MOMBE and interfacial characterization of novel heterostructures using X-ray Photoelectron Spectroscopy (XPS). As a graduate student, Dr. Stewart authored several publications one of which led to an invitation to give a presentation at the 2008 fall meeting of the Materials Research Society (MRS). Since then, Dr. Stewart

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

has worked as an adjunct instructor at Southern University and a postdoctoral research associate at the City University of New York (CUNY). Currently, Dr. Stewart is a contractor for a non-profit organization aimed at encouraging high school students to pursue a Science Technology Engineering & Math (STEM) discipline by providing them with academic enrichment and technical skills.



GLORIA THOMAS has taken her LS-LAMP experience to the university classroom. Thomas, a SU LS-LAMP graduate with a Bachelor of Science in chemistry and Ph.D. in analytical chemistry from Louisiana State University, is currently an assistant professor of chemistry at Xavier University and has

spent the last decade as a successful academician. Thomas was a National Research Council Postdoctoral Fellow at the National Institute of Standards and Technology (NIST) and later joined the faculty of Mississippi State University. Thomas is also the principal investigator for the National Science Foundation Chemistry Research Experiences for Undergraduates (REU) Leadership Group and a member of the Executive Board of the National Organization of Black Chemists and Chemical Engineers (NOBCChe). She is also involved in the American Chemical Society as a past committee subcommittee chair of the Younger Chemists Committee.

Thomas has published several research papers including bioanalytical applications of electrophoresis and microdevice technology and new technologies and strategies in chemical education. In addition to her passion for education, Thomas also enjoys photography and iEverything.



KANDACE THOMAS joined the Department of Chemistry at Louisiana State University in Fall 2005. Her dissertation is entitled "*Synthesis and Characterization of Rare Earth-Nickel-Gallium Ternary Intermetallics.*" Thomas received her Ph.D. degree in May 2011 and now

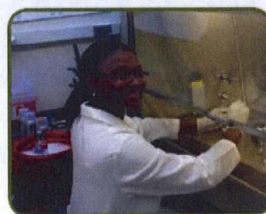
works as a Postdoc Researcher at Louisiana State

University in Baton Rouge, Louisiana.



KEVIN R. TUBBS received his Bachelor of Science in physics from Southern University. He obtained his Master of Science in physics and his Ph.D. in engineering science from Louisiana State University. He has

over 10 years' experience in computational fluid dynamics and high performance computing with applications to cross disciplinary fluid dynamics problems. Kevin is also very active in STEM education outreach and advocacy where he has served as Community Outreach Lead for two NSF funded grants (GK-12 and IGERT) during his graduate education. Kevin's outreach duties included workshop and seminar development and organization, training and professional development for middle school science and math teachers, as well as tutoring and enrichment program development and maintenance. Kevin has also mentored middle school, high school and undergraduate students. Dr. Tubbs stated, "The Timbuktu Academy and LS-LAMP are the reasons I chose to attend Southern University and pursue graduate degrees in STEM fields. The mentoring and experiences I received as a Scholar as well as the partnerships I developed have greatly influenced me and contributed to my success." Kevin is currently a systems engineer with the High Performance Computing Engineering Team for Dell, Inc.



Louisiana State University chemistry and psychology graduate, **UTIBE BICKHAM**, enjoyed the interdisciplinary networking that she

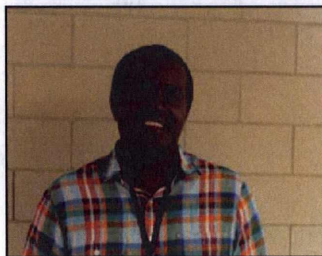
experienced as a LS-LAMP scholar at LSU. The networking offered students a place to "interact with other young bright minds," says Bickham.

While in LS-LAMP, Bickman conducted research at the University of Tennessee, LSU Veterinary School and the University of Wisconsin where she is currently pursuing her Ph.D. in pathology.

As Bickham underwent the graduate school application process, she was confident that she was more than ready for the graduate school experience.

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

She knew that her LS-LAMP research experiences allowed to stand out above the rest. During her graduate school interview, she was thrilled to see that the majority of the questions asked during her interview were centered on her research experience.



SHAUNDRICK D. WASHINGTON

graduated from Southern University at New Orleans (SUNO), with a Bachelor of Science in mathematics, May 2007 and M.S from

the University of New Orleans in May 2009. As a LS-LAMP scholar, he was mentored by Dr. Joe Omojola. Currently, Shaundrick tutors young kids in Mathematics. He plans to pursue his doctoral degree in Pure Mathematics.



UNO LS-LAMP Coordinator Ashok Puri describes **SYDEAKA WATSON** as “a model student, a perfect mentor and a great researcher and scientist.” Watson’s peer reviewed articles and conference presentations are evidence of her “star student” status.

Watson earned a Bachelor of Science in mathematics from the University of New Orleans and was the second place winner of the 2010 Joint Statistical Meetings (JSM) State Bowl. She was also named Outstanding Graduate Student (2010) by Baylor University’s Department of Statistical Sciences. She has also participated in a number of research experiences including Dillard University’s Summer Transition Program, University Illinois Urbana-Champaign Summer Research Opportunities Program, Michigan State University Summer Research Opportunities Program and conducted research on Theoretical Biology and Biophysics as a graduate student at Los Alamos National Laboratory.

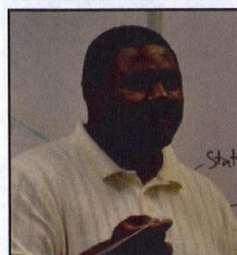


SHANTIA WHITE

graduated from Dillard University in 2005 with a degree in physics. She is currently pursuing a Master of Science in environmental engineering at Southern University and A&M College. In her

recent employment, she worked on the Jefferson

Parish Department of Environmental Affairs as an Environmental Quality Technician II. Her past internship and research opportunities are as follows: the Georgia DOT Office of Materials & Research, the Materials Research Science and Engineering Center and the Advanced Materials Research Institute. Shantia asserts that it was “My participation in Dillard University’s Summer Transition Program that exposed me to STEM and nurtured my love for math and science and my research in optical sensors for environmental application under the direction of my Mentor Dr. Darwish that changed my vision for my future.”



TROY DAMIAN WILLIAMS

is an instructor of physics at Southeastern Louisiana University in Hammond, LA. He obtained a Bachelor of Science in physics in 1996, a Master of Science in physics in 1998

and the Ph.D. in science and mathematics education in 2005 from Southern University. While at Southern, Troy was a scholar of both LS-LAMP and the Timbuktu Academy. During his tenure as a LS-LAMP Scholar, he was an intern at NASA’s Glenn Research Center and presented his research findings at multiple American Physical Society (APS) March Meetings. His current research efforts are focused on improving the quality of STEM education in K-12 educational settings.



TAMEKA WILLIAMSON

, a Lean Six Sigma Black Belt for the past 14 years, has served as a thriving leader in her own right. After

graduating with a Bachelor of Science in

mechanical engineering from

Southern University and A & M College and a Master of Business Administration from Webster University, she spent her time in various roles in manufacturing, operations, management, and human resources for several Top 15 companies on the Fortune 100 list. In these roles, she has been recognized and received several awards for her project leadership, cost savings initiatives and management contributions. Tameka, a Certified

LS-LAMP STUDENT PROFILES – Alumni with Graduate Degrees or Successfully in Graduate School

Leadership and Business Coach and Trainer and Speaker for The John Maxwell Team, serves as a Senior Manager of Operations with a local corporation and the owner of Celestial Enterprises, LLC which is the parent company of Celestial Educational Consultants and Celestial & Associates Consulting. Her focus is on providing successful educational and business strategies and consultancy services to clients to improve their professional outlook and sustainability.



PAULETTE WILLIS graduated from Southern University at New Orleans (SUNO) in 2004 and earned her Ph.D. in mathematics at the University of Iowa in May 2010 was awarded NSF Post Doctorial Fellowship, Department of Mathematics,

University of Houston, TX. While at SUNO she had the privileged to be mentored by Dr. Joe Omojola. She participated in summer internships, conferences and won several awards.

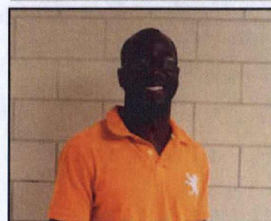


KIMBERLY RENE'E' WRIGHT graduated from Southern University and A&M College with a Bachelor of Science electrical engineering and a minor in mathematics. This Monroe, LA native graduated as Chief Student Marshal during the fall 2003 commencement. As a LS-

LAMP scholar and SU Honor's College student, Ms. Wright believes that hard work pays off, which is exemplified in her achievements as an undergraduate. During her college career, she obtained the following awards: Black Voices *BV* 100+ Academic Excellence Award, Dean's List, Most Outstanding Student in Electrical Engineering, National Society of Black Engineers (NSBE) Major Sponsors Scholar, Southern University Chancellor Scholar, Texas Instruments Scholar, and United Negro College Fund (UNCF)/General Motors Engineering Excellence Award. Moreover, Ms. Wright has also participated in major conferences, to name a few: University of California-Berkeley's Edge (2002), and the University of Illinois-Urbana-Champaign's MERGE (2002). Ms. Wright is currently employed by Raytheon.



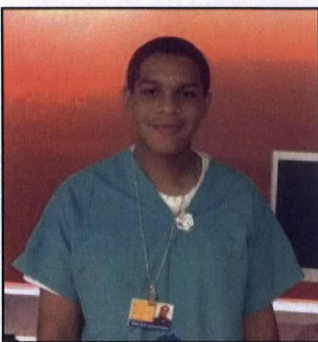
URSULA WHITE joined the Department of Biological Science at Louisiana State University in Fall 2004. She has won the poster presentation award stipend at the WAESO MGE@MSA conference in 2006 and presented at the Keystone Symposia on Molecular Control of Adipogenesis and Obesity Meeting in Banff, Alberta, Canada. Her presentation was entitled "*The Effects of Neuropoietin on Adipocytes.*" White received her Ph.D. degree in July 2009 and now works as a Postdoctoral Research Associate at Louisiana State University in Baton Rouge, Louisiana.



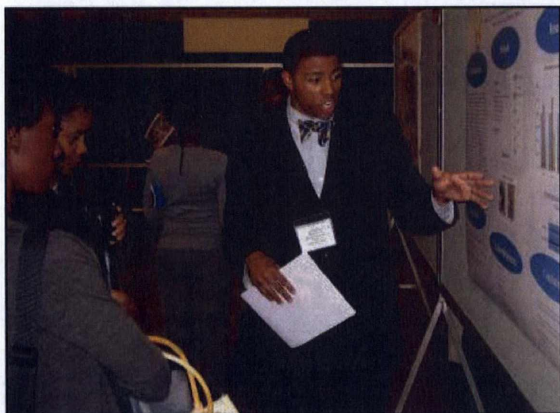
OGER S. ZOH is pursuing a Ph.D. degree at Iowa State University in the statistics program. He graduated from Southern University at New Orleans in 2006 with a Bachelor of Science in mathematics and minor in physics under the supervision of Dr. Joe Omojola who first introduced him to research as an undergraduate. He then obtained a fellowship at Iowa State University where he began his graduate work. In 2009, he obtained a Master of Science degree in statistics. His Master thesis was on, "*Confidence Intervals for various Multivariate Gauge R&R indices.*" This work was done with Dr. Alyson Wilson. Roger currently working on his Ph.D. dissertation with Dr. Alyson Wilson and the title is "*Negative Log-Gamma modeling of Series System Reliability with trend.*" He is expected to graduate in May 2012.

**LS-LAMP
UNDERGRADUATE
STUDENT
PROFILES**

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



RONALD ALEXANDER is a senior physics major at Southern University and A&M College. Mr. Alexander entered the University at the age of 16. He is a member of the Dolores Spikes Honors College and a recipient of the 2010-2011 American Physical Society (APS) Scholarship for Minority Undergraduate Physics Majors. This award was presented to Mr. Alexander by the APS Committee on Minorities in Physics. Students receive this award based on their academic record, potential, and their commitment to the major of physics. His current research interests include applied high energy physics and medical physics. In the summer of 2011, he was accepted into an internship program at Johns Hopkins Hospital in Baltimore, Maryland where he worked with a clinical physicist on his research in the area of prostate cancer dosimetry. His current career goals are to finish his Bachelor of Science in physics and to obtain a M.D. and a Ph.D. in biophysics. Mr. Alexander expressed that "LS-LAMP has helped me to pursue my academic goals by providing academic support as well as mentoring and professional development. I am very happy to be a part of LS-LAMP and would recommend it to anyone seeking an undergraduate degree in the STEM disciplines."



JOHNATHAN ANDRUS, a senior biology major at Grambling State University, became deeply interested in obtaining his Ph.D. after attending his first internship in summer 2009 at Tulane University. He is interested in cancer research and the various aspects of this deadly disease that has taken the lives of many of his beloved family members. In 2010, he

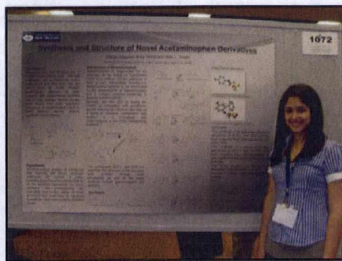
was awarded a summer internship at Baylor College of Medicine to work in molecular and human genetic research. He obtained a Summer Undergraduate Research Program Fellowship at the University of Massachusetts Medical School in summer 2011 to work on cell biology and cancer biology research.

NGOZI ASONYE is pursuing a Bachelor of Science Degree in biology with an Honors Baccalaureate. He



is on the Dean's List for 2 out of 2 Semesters. Winner for the \$20,000 Dell Scholars Scholarship and was also awarded a laptop and a printer. Winner of the \$10,000 Glenn Armentor Scholarship. Awarded a \$6,000 Centennial Scholarship from the University of Louisiana at Lafayette. Winner of the \$4,000 Southwest NAHRO Scholarship. Winner of the \$4,000 Louisiana NAHRO Scholarship. Winner of the \$500 NAUW Scholarship. Winner of the \$500 Delta Sigma Theta Scholarship. Winner of the \$2,000 Lafayette Superintendent Scholarship. Awarded SEOG Grant, the Louisiana Tuition Opportunity Program Performance Scholarship, Federal Pell Grant. Finalist for the National College Math Scholarship. Awarded the Doris and David Chretien Certificate of Achievement at the University of Louisiana at Lafayette. School winner of the National Wendy's Heisman Scholarship. Recognized for excellent academic achievement by the Black Staff and Faculty Caucus. Awarded a Certificate of Achievement for participating in the Upward Bound Math Science 2009 Summer Enrichment Program at the University of Louisiana at Lafayette. I always new that the STEM program was for me ever since I became involved with the Upward Bound Program my sophomore year of high school. Upon my entry into the University of Louisiana at Lafayette, I was already a sophomore with over 45 credit hours completed with a 4.00 GPA.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



YIRESSY CAROLINA IZAGUIRRE BADAY is a 19-year old junior LS-LAMP scholar attending the University of New Orleans.

She has been working in an organic synthesis lab for over two years. She has presented her research in meetings at Arizona State University, University of Memphis, and at the regional American Chemical Society conference in New Orleans. She has also participated in undergraduate poster competitions at the University of New Orleans.

Last summer Baday volunteered full-time at a public hospital where she worked in a reproductive health clinic. While volunteering at the clinic she developed a study to survey the teenage population that visited the hospital and scanned their knowledge in reproductive health so as to gain a better understanding of the high rate of early teenage pregnancies that occur in Honduras. The research was used as part of a proposal for a regional reproductive health conference that took place in Cortes, Honduras.

Baday hopes to continue to conduct undergraduate research through her bachelors and obtain an M.D./Ph.D. that will allow her to pursue a career in cancer research, specifically protocol design and testing in childhood leukemia treatments.



BREEANA BAKER is an undergraduate senior majoring in biochemistry. She is currently conducting research in the lab of Dr. Sue Bartlett at LSU Biological Sciences. Her research focuses on the function studies of lipoxygenases. After graduation, she plans on

pursuing a doctoral degree in forensic sciences.



ANTHONY BAMUGO, a Gates Millennium Scholar since the fall of 2009, is currently a junior pursuing a Bachelor of Science degree in civil engineering and

in physics at Southern University and A&M College. He started his career as a student in the Honors College at Southern University in the fall of 2009. His future goal is to work as structural civil engineer. He believes that he can apply what he learns in physics on electromagnetic forces that hold atoms, which are the building blocks of solid and other types of matter, together to improve the strength and durability of large structures. Anthony joined LS-LAMP and the Timbuktu Academy at Southern University in the spring of 2011. Through LS-LAMP and the Academy, he was selected to participate in the Louisiana Alliance for Simulation-Guided Materials Applications (LaSIGMA) Research Experience for Undergraduates (REU) program during the summer of 2011. He conducted computational research on the atomic orbitals of Indium Selenide. Currently, Anthony is conducting research on the atomic orbitals of Cadmium Selenide and successfully matriculating in all of his courses. He attributes his success as a researcher and a successful student to LS-LAMP and the Timbuktu Academy.



ELIZABETH BARIKA is student at southern University at New Orleans (SUNO) majoring in biology. Doing the sciences has always been my desire in life and I find Biology as a very interesting

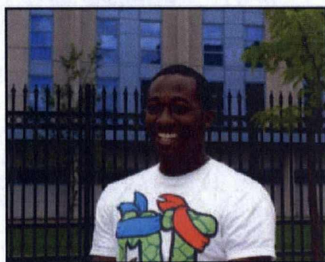
field because it is the study of life. I find science as a fun and challenging field at the same time and in this light, I would like to build my career on science. Many discoveries and innovations in the world are science based which makes the world revolve around science. My goal is to further my studies in the sciences and become a professional in the field, to contribute to scientific research, come up with new discoveries and innovations and above all, be of help to the society.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



ZEPHRA BELL is a native of Asheville, North Carolina. She is graduating senior pursuing a Bachelor of Science degree in physics at

Southern University and A & M College. Ms. Bell has been a member of LS-LAMP since 2008. It is Ms. Bell's ambition to be accepted into a Bridge to the Doctorate (BD) program for the fall of 2012 to pursue the Ph.D. in either material science or in medical physics. Due to Ms. Bell's involvement in LS-LAMP, she was selected to participate in six (6) summer research internships. The research sites include the Southern University Laboratory School, Fermi National Accelerator Laboratory, Brookhaven National Laboratory, Louisiana State University, University of South Florida, and Southern University. She also has been afforded the opportunity to attend and present at numerous conferences thanks to the support provided by LS-LAMP. Ms. Bell stated, "I am forever indebted to such a wonderful program which helped to foster my skills and enhance my academic career."

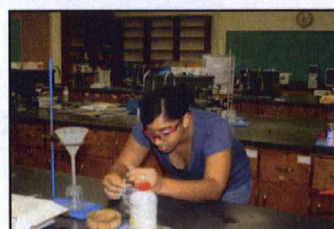


GARRETT MORGAN RODRIGUEZ BLACK a senior biology major aspiring to attend graduate school and obtain an MD-PHD. Garrett holds

membership in several campus organizations. He serves as vice-president of his fraternity, president of the Pan-Hellenic Council, class president, and is a former member of the peer dean association. He has recently begun working in Dr. Jessica Graber's physics lab researching the linear and non-linear effects in the creation of oceanic rogue waves. His interest in research was sparked while participating in the **Undergraduate Research Opportunities Program** at Boston University's Medical Center. Garrett realized that he really enjoyed research and that this was a path that he would like to pursue in the future.



TREVA BROWN is an undergraduate senior majoring in chemistry. She is currently conducting research under Dr. Jayne Garno in the Department of Chemistry at LSU. Her research focuses on automated scanning probe with n-akanethiol self-assembled monolayers. Ms. Brown recently published her work in the Journal of the Association for Laboratory Automation (2011). After graduation, Ms. Brown plans on enrolling a doctoral program.



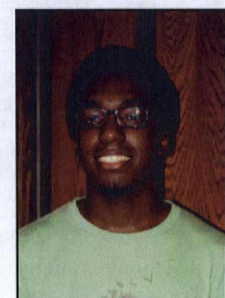
COTY BRUMFIELD is a McNeese State University LS-LAMP scholar with a major in pre-med. In addition to LS-

LAMP, Brumfield is a TOPS scholarship recipient and was voted LEAP's Engineer of the Year. She is also a member of the National Honors Society of High School Scholars and a recipient of Upward Bound's Most Outstanding Female Student Award.



CONSTANCE CHRISTIAN, a Georgia native, is a fourth year biology student who is compassionate, enthusiastic, and strives to be the best at everything she does. Constance graduated from high school with honors and

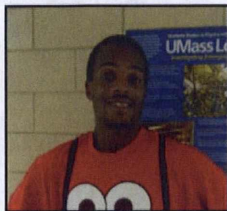
her interest in science led to her acceptance in the Howard Hughes Biomedical Honor Corps at Xavier where she excelled. Her plans for the future include graduate school where she hopes to engage in genetics research with an emphasis in neonatology



BLAISE CLARKE is an undergraduate sophomore majoring in chemistry. Last year he conducted research under Dr. Jayne Garno in the Department of Chemistry. His research focused on Gravimetric Determination and Analysis of Iron as Fe₂₀₃.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

After graduation, he plans on enrolling in a graduate program in the biomedical field.



NOEL CLARK is a junior mathematics major and a lamp scholar of Southern University at New Orleans. He is doing undergraduate research with Dr. Joe Omojola. He has been

accepted to the Mathematics Field of Dreams Conference at Arizona State University in Phoenix. He plans to attend graduate school in Mathematics after graduation.



PRECIOUS E COMEAUX is a microbiology major (with an emphasis on Genomics). She received an academic scholarship from the University of Louisiana at Lafayette and the Keith Lindley scholarship from the honors program. She is also

been an Alpha Lamda Delta honors society officer for two years, an SGA senator, and a member of the Biological Society. Comeaux also volunteers at the Hilliard Art Museum.

"I've always liked science," says Comeaux, "...but I just thought it was something I was good at however I didn't truly take ownership of the field until participating in an Undergraduate Research Program at Yale University."

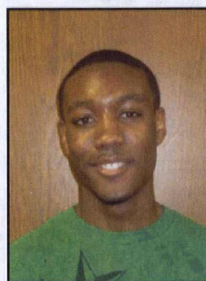
Comeaux continues to conduct research in the IMaGeS lab under Dr. Mauricio Lanetty- Rodriguez at the University of Louisiana.



BENSON V. DABNEY is a junior physics/pre-engineering major at the Dillard University. He expects to graduate in 2012.

Dabney is a physics 3/2 major who is pursuing dual degrees in physics and electrical engineering. His focus is on renewable and sustainable clean energy through nanotechnology.

Currently, Benson is a member of the LAMP program under the mentorship of Dr. Abdalla Darwish. As a member of LAMP, Benson has participated in the ERN Conference as a poster presenter for research performed under his mentor. Benson has also attended several other conferences broadening his knowledge of STEM programs, REU's, and graduate opportunities. His plans are to pursue a Ph.D. in Electrical Engineering and perform research to help reduce our current energy crisis.



CALEB DARENSBOURG is an undergraduate sophomore majoring in chemistry. He is currently conducting research under Dr. Cristina Sabliov in the Department of Biological Engineering. His research focuses on nanoparticles for CVD. After graduation, he

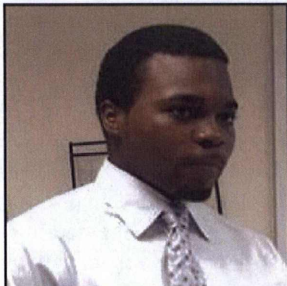
plans on enrolling in a graduate program in the biomedical field.



SHELBY LEIGH EDWARDS is a sophomore at Dillard University. She participated in Dillard's HBCU-UP Math, Science, and Research Institute Program the summer following her high school graduation. Upon arrival, she was undecided; however, at the end of the program, she decided to major in chemistry. Participating in research under LAMP has allowed her to develop critical, technical, and creative thinking skills that are necessary to succeed in school. Her dedication and commitment to the sciences grounded in civic engagement and strong work ethics catalyze her participate in two environmental research studies in two Louisiana communities after the Deep Water Horizon oil spill. She is a co-author of a paper submitted to the Journal

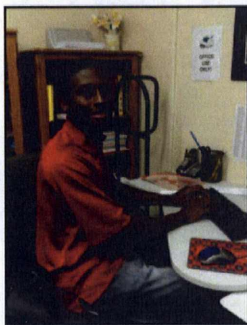
LS-LAMP STUDENT PROFILES - UNDERGRADUATES

of Environmental Protection in August. She plans to pursue graduate education and LAMP program will provide her with the opportunities to network and visit top graduate schools.



DESMOND FERNANDEZ is currently a junior in pursuit of a Bachelor of Science degree in physics. His collegiate career began in the summer of 2009 as a participant in the Summer Bridge

Institute (SBI) of the Timbuktu Academy. According to Mr. Fernandez, "SBI funded my studies as an incoming freshman and provided the necessary guidance to success. I can now appreciate the three (3) hours of mandatory study hall as required by SBI. This time helped me to stay on top of my work." The following semester, he was accepted into LS-LAMP. The systemic mentoring of LS-LAMP allowed him to obtain information on summer research opportunities such as the Initiative for Minority Recruiting and Mentoring in Mathematics (IMRAM) at Louisiana State University and Texas Christian University Physics and Astronomy Research Experiences for Undergraduates (REU) program in Physics and Astrophysics. He participated in IMRAM in the summer of 2010 and in the REU program at Texas Christian University in the summer of 2011. Desmond credits his academic success to his partaking in LS-LAMP. According to him, "I can honestly say that LS-LAMP has helped me progress over a short period of time. The guidance, the advantages, the funding, and the knowledge that I receive is helping, preparing, and leading me into a bright future. Hopefully, it will inspire others as I have been greatly inspired thus far."



ITELHOMME FENE II is a junior Mathematics major with a minor in Business. He is a LS-LAMP at the University of Louisiana at Lafayette and he is in the process of being accepted into the McNair program. Fene received an award of excellence from the Black Faculty and Caucus at his home university. He also

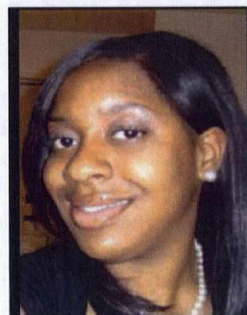
presented research in Washington D.C. on September 15, 2011. The research involved the application of

abstract algebra and Sudan's Algorithm to List Decoding and looked at low rate Reed Solomon codes and the output given in the list by the computer program G.A.P., which stands for Groups, Algorithm, and Programming, when using a special command. This research paper has been submitted to an academic journal and after revisions it will be published. Fene realized that he wanted to be a mathematician after taking his first Calculus class with Dr. Beaulieu.

"Dr. Eubanks-Turner made me see how interesting and exciting research in this field could be," says Fene, who plans to attend graduate school and become an algebraist.

"Hopefully I'll be able to focus my research on Ring theory and make correlations between it and Number theory."

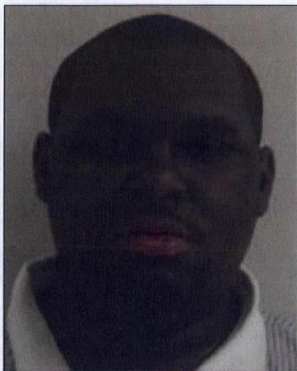
Fene is also a member of the UL Symphony Orchestra and is in the honors program.



KRYSTAL NICOLE FINLEY is a senior majoring in electrical engineering at Southern University with a 3.45 cumulative grade point average. During her college career, she has managed to participate in various activities while staying on the Dean's

List and managing to obtain the highest grade point average in the College of Engineering. Krystal Nicole Finley is a member of Eta Kappa Nu, an honor society for Electrical Engineers. She is also a Timbuktu Academy and LS-LAMP scholar, a member of Southern University's Honor College, and has served as a senator for her junior class. Krystal Nicole Finley has completed an internship with the Department of Energy in Albuquerque, New Mexico in 2009, where she worked amongst other engineers and completed Project Management classes. She has also completed a summer internship with the Air Force Research Laboratory in Rome, New York in 2011, where she researched various topics on a weekly basis to ensure cyber security.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



ROBERT FLORIDA JR. is a junior physics major at Southern University and A&M College. He is a member of the Timbuktu Academy and LS-LAMP. He conducts research under the supervision of Dr. Rambabu Bobba, Professor of

Physics, Department of Physics, Southern University. Mr. Florida and two other scholars traveled to Erice, Italy in 2010 to attend the 2nd Annual International Conference for Renewable Energy Resources. This conference allowed attendees to collaborate on the increased efficiency of photovoltaics and the continued research on wind, water and solar powers as well as eco-friendly structures. As stated by Mr. Florida, "The Timbuktu Academy and LS-LAMP have been fundamental in his collegiate matriculation." After obtaining the BS in physics, Robert plans to pursue an M.D./Ph.D. in bio-medicine at Rutgers University.



CARISSA FLOWERS is a computer science major and she expects to graduate in December 2011. Flowers is an active participant in LS-LAMP Program. In the summer of 2010, she received a job in NSF in New Orleans, Louisiana working as a web developer

to research what high school students will do to solve certain bugs in the web sites.

"I developed these learning cases for these students according to what the high school teachers, whom I worked with, wanted to have," says Flowers.

One of the learning cases was a calendar that will give a date inconsistent to the user's input. Another learning case was a music index. There were six choices and various things could be wrong with the pages the indices pointed to. A few bugs were the music the page played, the titles on the pages, or the pictures on the pages were inconsistent to the artist that was chosen. Another bug was the other pictures on the page may not have been clickable. Finally, a bug was the music index itself pointing to the wrong page. These learning cases were helpful to the high

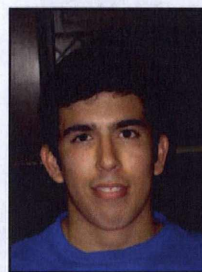
school students in understanding and solving web applications.



LE'ANDRE FOSTER is currently in the final year of a dual degree program in which he will receive a Bachelor of Science in physics from Xavier University of Louisiana, and a Bachelor of Science in electrical engineering

from the University of New Orleans. He is an active participant in the LS-LAMP program. He has also conducted research at Tulane University on forecasting "Freak Waves" in the ocean. Using various theories and computer applications, he was able to apply what he was taught in the classroom in real world situations.

"This experience enhanced my way of thinking and applying my general knowledge, and I was really motivated to continue STEM studies in both Physics and Electrical Engineering," says Foster, who also plans to apply to graduate school and further his STEM education.



MATTHEW GALEANO is an undergraduate junior in mechanical engineering at Louisiana State University. He is currently conducting research in the lab of Dr. Michael Murphy on knee workspace validation. After graduation, Mr. Galeano plans on enrolling in a graduate

program for mechanical engineering.

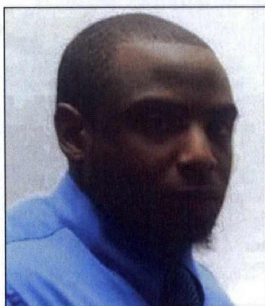


MARIAN L. GRAY is a senior at Xavier University of Louisiana in New Orleans, La. She is working toward her Bachelor of Arts in biology with a planned graduation date of May 12, 2012. While at Xavier Marian has conducted research under

grants funded by the RCMC and The Louisiana Cancer Research Consortium (LCRC) dealing directly with health disparities in African American women. In addition to being a Louis Stokes LAMP

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

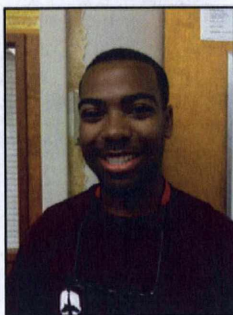
scholar Marian is also a Ronald E. McNair Scholar, former chapter secretary (2008-2009) and president (2009-2010) of American Chemical Society (Xavier University of Louisiana), and historian for Xavier's Speech and Debate team (2011-2012). Marian has presented her research findings at the McNair Research Symposium and will also be presenting at the American Association for Cancer Researchers national meeting in April 2012. She knew that the STEM field was for her when she suffered the loss of several family members including her mother to cancer. "I want there to be an awareness of the things that directly affect my community, what better way than to devote myself to something I'm truly passionate about." After graduation Marian plans to transition into graduate school with concentrations in pharmacology and pharmacokinetics.



JOHNNY GREENE is a sophomore at Southern University majoring in electrical engineering. In the fall of 2011, he transferred from Southern University in Shreveport Louisiana (SUSLA) after completing his Associate Degree in electronics technology. Mr. Greene

was inducted into HBCU-UP in June 2009 and the LS-LAMP program in August 2010 at SULSA. He was exposed to summer internships immediately after completing high school. In the summer of 2010, he was able to conduct research at Clark Atlanta University in Atlanta, GA. While at Clark Atlanta, he studied nano-technology and was able to work with students and mentors from other universities. He also presented his research at the Annual Biomedical Research Conference for Minority Students (ABRCMS) in Charlotte, NC. Mr. Greene's academic objective after completing his BS in electrical engineering is to continue on to graduate school.

KOLBY HANDY is a sophomore pursuing an undergraduate degree in biology at the University of Louisiana at Lafayette. In his two years at ULL, he has been involved in PPS, the Pre-Professional Society, the Biology Society, SOUL Camp 2011, and LS-Lamp. Recently,



Handy was recognized as a member of the National Honors Chapter on campus, Sigma Alpha Lambda.

"I developed a passion to be a STEM major by participating in science based quiz bowls and science fairs during high school," says Handy.

Upon graduating from ULL, Handy plans to explore the field of medicine in medical school or the ecology of infectious disease in grad school.

"In order to accomplish such goals, it is important to remain focused and persevere; both which are qualities that has made me an outstanding individual."



KIARA HENDERSON is a senior biology major at Southern University. She has been an active member of LS-LAMP. Through the

support provided by LS-LAMP, she has been able to obtain summer internships and present her research at major conferences. As such, she participated in the Arkansas Center for Space and Planetary Sciences at the University of Arkansas in Fayetteville, AK. She presented her work entitled "The Phylogenetic Characterization of the *Crenarchaeal* amoA from an Alkaline Hot Spring of Lake Magadi Basin" at the Emerging Researchers National (ERN) Conference in Washington, D.C. and at the LSU Triple EX Conference for Undergraduate Research in Baton Rouge, LA. In the summer of 2011, she was selected to participate in the Faculty and Students Teams (FAST) summer internship program at Brookhaven National Laboratory in Upton, NY. Her career objective is to complete her Bachelor of Science degree and go on to graduate school to obtain a Master's in Immunology and a Ph.D. in Virology.

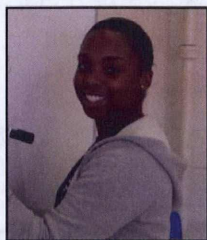


RAQUEL SHANTEL HUNTER-JOHNSON graduated from Southern University at New Orleans (SUNO) in 2010 with a Bachelor of Science in biology. In her undergraduate years she was an active member and secretary of Beta

Beta Beta (Tri-Beta) Honor Society and the National

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

Institute of Science, (NIS). Raquel also conducted research at SUNO where she presented at several conferences. She won first place Poster Contest at the Beta Kapa Chi and The National Institute of Science (BKX/NIS) 67th Joint Annual Conference in 2010. Her future goals include establishing a career in a Forensic Research Laboratory or educating up and coming scientists. Her short term goals are to pursue a Masters degree in Molecular and cell biology at Tulane University.



BRITTANI J. HORN is a junior biology student at Grambling State University. She is currently a LS-LAMP scholar. She was a NSF REU Bionetworks Summer Intern at Rice University at Houston, TX, in 2011. She received training on how to perform and

analyze PCR and agarose gels to interpret DNA in Arabidopsis, and gave a poster presentation entitled "Elucidating components of the peroxisome – associated degradation pathway in Arabidopsis" at the end of her internship.



TYRONE CHRISTOPHER HUTTON II is a senior in civil and environmental engineering at the University of New Orleans. He is an active member of the LS-LAMP, which led him to tutoring students from K-12 in Mathematics and ACT Preparation. He is also a member of the National Society of Black Engineers (NSBE) and the American Society of Civil Engineers (ASCE). Tyrone is

expected to graduate spring semester of 2012. He has plans to further his education in graduate school to pursue a Master's Degree in Civil Engineering. After graduate school he plans to start a career in structural engineering.



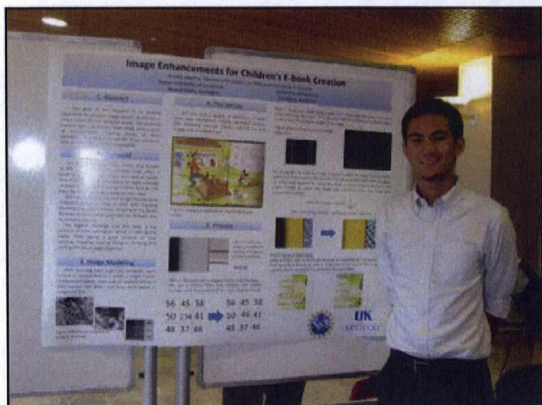
INDIA JACKSON is currently a Sophomore at Nunez Community College and is currently maintaining a 3.83 GPA. She is completing a LA Transfer Associate of Science degree with an emphasis in Biology. When asked why she chose the field of science, India stated that she just loves science. There are so many things you can do with science and the main thing is you can make the world better with science. Since the LAMP program has given her the opportunity to mentor and tutor other students, she finds she enjoys tutoring those who are trying to achieve their GED and also those students with learning disabilities. She feels most fulfilled working with these groups of students.



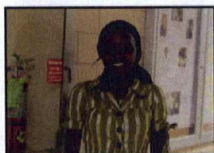
JILLIAN JAMES is a sophomore chemistry major at Nunez Community College and is currently in the Louisiana Transfer Program pursuing an Associate of Science in Chemistry. She is maintaining a 2.87 GPA. Jillian would like to use the knowledge she gained in Cosmetology school to become a cosmetic chemist. She enjoys cosmetology but learned that through her love of science and math she could make cosmetics better. She likes creating new cosmetics and learning about their makeup. She would also like to create her own cosmetic line if given the opportunity. Upon her completion of her degree at Nunez, she is looking to attend either Howard University, University of Morgan State, or University

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

of Maryland-Baltimore College where all three have strong chemistry programs.



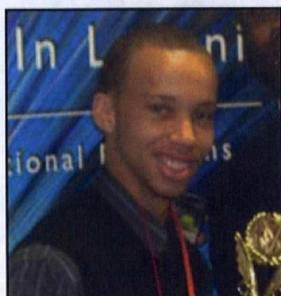
ARNOLD "ARCHIE" JAYOMA is a 3-2 dual-degree physics/engineering major at Xavier University. Upon completing his undergraduate studies at Xavier, he plans to transfer to Texas A&M University where he will continue his degree program in agricultural engineering. His plans are to obtain a Ph.D. in Agricultural Engineering with an emphasis on Urban Farming. His involvement in an R.E.U. program with the electrical engineering department at the University of Kentucky led to his "aha" moment. It compelled him to focus on his goals and helped him understand the importance of a Ph.D. According to Archie, "many students view a Ph.D. as a life commitment," but he sees it "as a way broaden his horizons, not just for himself but society as a whole."



MONICAH JEPKEMBOI is a junior biology major at Southern University at New Orleans. During the summer of 2011, she participated in the Summer Undergraduate

Research Experience Program (SURE) at Southern University at New Orleans. Together with her mentor Dr. Illya Tetzl, we worked on Effects of Gravitational Changes in Eukaryotes using a HOBO Transposon and a Fruit fly. It was a great opportunity and also beneficial because she experienced and learned a lot about research and science. She enjoyed it and would like to do more in the future.

MARIO JOHNSON is a junior undergraduate physics and chemistry dual major at Southern University and A&M



College with a mathematics minor. He is originally from Kansas City, Kansas. He has participated in many conferences and received a Third Place award at the 2011 MGE@MSA conference at Arizona State University. Other conferences attended by Mr. Johnson include the Emerging Researchers National (ERN) Conference in Washington, D.C. in 2011 and the LaSPACE Council Meeting held in New Orleans, LA in 2010. He has interned at Purdue University and at Brookhaven National Laboratory through the Faculty and Student Teams (FaST) Program of the Department of Energy (DOE). Mr. Johnson also participates in extracurricular activities on SU's campus such as the Southern University Honda Quiz Bowl Team and the YMCA Leadership Club where he served as the President/ Vice President. Mr. Johnson believes that the weekly seminars conducted by Dr. Diola Bagayoko, LS-LAMP Project Director, will help him develop into a better person as well as a more dedicated and focused student. Upon graduation, he hopes to attend Arizona State University to pursue his doctorate in astronomy and astrophysics.



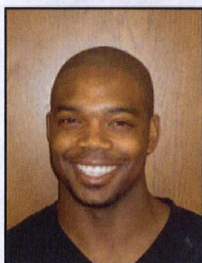
CYNDI JOSEPH is a senior in biology student at Grambling State University. She has been a LS-LAMP scholar since January 2009. She was awarded a summer internship at Purdue University, West Lafayette, IN, to work on the "Effect of Deletion of Spectrin, Protein 4.2 or Protein 4.1 on Band 3 Diffusion by Single Particle Tracking" under the supervision of Dr. Philip Low in 2010. LSU Health Sciences Center, Shreveport, LA, also gave her a summer internship to work in "The Role of Nuclear Dishevelled in Regulating Gene Transcription in Breast and Colon Cancer Cell Lines" under the supervision of Dr. Kevin Pruitt. She presented her research work on "Development of a Convergent Entry to Synthetic and Semi-synthetic Analogs of Potential Selective Estrogen Receptor Modulators" at the 14th Annual Phillip L. Young Research Symposium at GSU in April 22, 2010, and on "Effect

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

of Deletion of Spectrin, Protein 4.2 or Protein 4.1 on Band 3 Diffusion by Single Particle Tracking” at the 24th Annual CIC/SROP Summer Research Conference in July 23 – 25, 2010 and at ABRCMS: Charlotte, NC, in Nov. 10 – 13, 2010.



YONATAN KAPLAN is a LS-LAMP scholar at Tulane University pursuing a degree in biomedical engineering. He anticipates graduating in 2012. His awards include 2009 National Hispanic Merit Scholar, David project Campus Fellow (2009), 2009-2013 Tulane University Presidential Scholar and 2009 National Society of Collegiate Scholars.

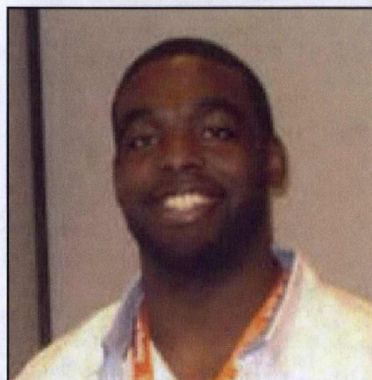


KENDALL KNIGHT is an undergraduate junior majoring in biological sciences at Louisiana State University. He is currently conducting research under Dr. Craig Hart in the Department of biological Sciences. His research focuses on fertility and embryogenesis in *Drosophila* affected by the Drop-Dead gene. After graduation, he plans on enrolling in a graduate program in the biomedical field.



TARYN LEAL is an undergraduate senior majoring in biological sciences. She is currently conducting research under Dr. Cristina Sabliov in the Department of Biological Engineering. Her research

focuses on Vitamin E and Carnosine (VECAR) in terms of a treatment for *atherosclerosis*. Taryn is currently applying to graduate programs in the biomedical field.



RUSSELL J. LEDET, born in Lake Charles, LA, entered college at Southern University in the fall of 2009. He graduated from Lake Charles-Boston HS in

2004 and entered into the United States Navy as a Cryptologic Technician. Upon completion of active duty, he chose to pursue dual degrees in chemistry and in biology. Since his beginning at Southern University, he has been engaged in ongoing prostate and breast cancer research under the direction of Dr. Wesley Gray, Professor of Chemistry, Department of Chemistry, Southern University. He has been a LS-LAMP scholar since the fall of 2010. He has been the recipient of the SUBR Student Researcher of the Year Award, the Wells Fargo Scholar Award, 2011 ETS Presidential Scholar for HBCU Students, amongst other awards. Mr. Ledet aspires to become an M.D./Ph.D. with a concentration in oncology. His vision is to develop a national organization whose focus is educating minorities on healthier living and epidemical diseases in their respective ethnicities.



JARROD LIVING is an undergraduate junior in mechanical engineering at Louisiana State University. He is currently conducting research in the lab of Dr. Michael Murphy on knee workspace validation. After graduation, Mr. Living plans on enrolling in a graduate program for mechanical engineering.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



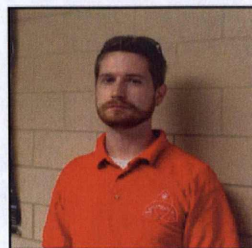
KHRYSTINA LONDON is an architecture major and a LS-LAMP scholar at Southern University and A&M College. She has been positively striving in her field to become a successful architect. She stated, "My experience with

LS-LAMP has been very informative and helpful. LS-LAMP educated me on how to become successful after graduating." Ms. London was able to attend and present her research at the 2nd Annual HBCU Conference in Hampton, VA which was made possible with the assistance of LS-LAMP. She was also able to partake on a field experience designated as U+R CDRC (Urban + Rural Community Design Research Center) with the School of Architecture as a student coordinator. This work was published and is located in the Scotlandville Library, the John B. Cade Library, and the School of Architecture Library. For successfully completing this work, she and her team were awarded a certificate from the Mayor of Baton Rouge, LA. After graduation, she plans to pursue a graduate degree and study project management within the field of architecture.



RENE LOPEZ is a Sophomore at Nunez Community College studying industrial technology and is currently maintains a 3.41 GPA. His emphasis is Process Technology, which trains the student how to become a Process Operator in a chemical plant or other type of energy plant. Before coming to Nunez, he served as an Engineer with the Marine Corps in the 9th Engineer Support Battalion. While with the Marines, he was awarded a Navy Commendation from the Army for his work along the California/Mexico border. Rene says he likes hands-on type of work, working with tools, and getting dirty. He is currently interning as a Field and Chemical Inspector

inspecting Petrochemical and Hydrocarbons. Rene is scheduled to graduate in May of 2012.



GINO LOVERDE is a sophomore at the Southern University at New Orleans, where he is currently pursuing a Bachelor of Science degree in mathematics. This past summer, he completed research as

part of the undergraduate research experience, an honor that has led to his recent invitation to national conferences.

Math has always been an area of academics that has excited him, from identifying basic number patterns, to watching term after term cancel in a complex trigonometric function, He has been drawn to the beautiful interaction of numbers and operations. Putting this love in action, he currently works with his peers in a tutoring position during his free time, as well as continued pursuance of his research goals. He hopes to continue to motivate and inspire both himself and others as he pursues his goal of attaining a Ph.D. in pure mathematics. He is being mentored by Drs. Joe Omojola and Zheng Chen.



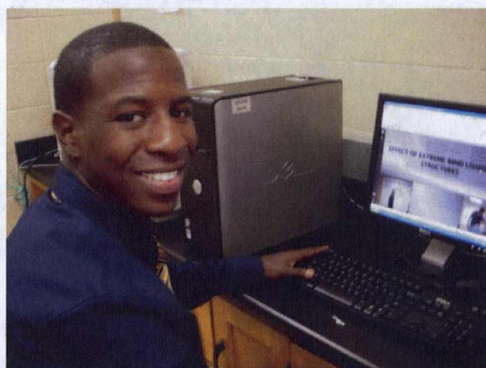
TRAIANA M. MANGUM is a senior chemistry major at Xavier University. She is a member of the Phi Lambda Upsilon Chemistry Honor Society and a member of the Senior Class Executive Board

"The moment I read the flyer for LS-LAMP, I knew it was for me," says Mangum, who is currently conducting research in an organic synthesis lab with Dr. Maryam Foroozesh. Initially, Mangum was just excited to have an opportunity to gain research experience, but LSAMP has given her much more. "From meeting new people, gaining guidance for graduate studies and careers, and working with my institution's finest researchers, I have learned so much," says Mangum. "LSAMP has been a great asset to my undergraduate career. I plan to take this new knowledge and skill on to a successful future in graduate studies."

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



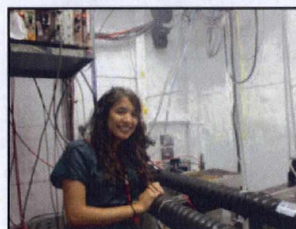
JULIO MARTINEZ is a Sophomore at Nunez Community College completing a LA Transfer Associate of Science degree. His current GPA is 3.27. His emphasis is in Chemistry. Julio is working towards a career in Chemical Engineering. Science appealed to him over other subjects in school and he feels very strongly that he has high math skills. He is fascinated by the world of fuels, most importantly biofuels, combustions, and updating cars to better serve the environment. He knows that cars will never go away and he wants to see them run more efficiently. With his eventual career in Chemical Engineering, he would like to take his work overseas to learn about other cultures and expand his knowledge of the world.



VALON L. MCCALL is a senior in engineering technology and double major in physics & mathematics. He is an LS-LAMP research assistant. He worked in the Natural Resources: Solar Power project at the engineering department at GSU in summer 2010. He was awarded an internship at the University of Texas at Arlington to work on Hazard Mitigation: Effects of Extreme Winds from May 2010 to June 2011. He has been working for the Aerospace Catalyst Experience with NASA in the department of Physics & Math at Gambling State University since June 2011.



TAINNEAH MCGRAW is a undergraduate junior majoring in biological sciences. She is currently conducting research under Dr. Eric Achberger in the Department of Biological Sciences at Louisiana State University. Her research focuses on survival of *E. coli* in the environment. After graduation, Ms. McGraw plans on applying to graduate programs in the biomedical field.



DAPHNE MEZA is a mechanical engineering major, expecting to graduate Spring 2012. She is also an active participant in LS-LAMP, which has opened more doors than she could have asked for.

“Through this program, I had the opportunity to conduct summer research at Brookhaven National Lab, two years consecutively, summer 2010 and summer 2011,” says Meza.

Meza presented her research findings at an MSA@MGE research conference at Arizona State University and during an ERN conference held in Washington, D.C.

“The analytical techniques, knowledge and experience that I have gained conducting research have positively impacted my academic studies,” says Meza, who credits her summer research experiences for helping to shape her future career in STEM.

“I have always wanted to go into Biomedical Engineering and this past year’s research definitely reinforced my desire to pursue it in graduate school.”

Meza plans to obtain a Ph.D. in Biomedical Engineering and thanks to LS-LAMP, she has been accumulating crucial experience that gives her a step up in the graduate’s pool of applicants.

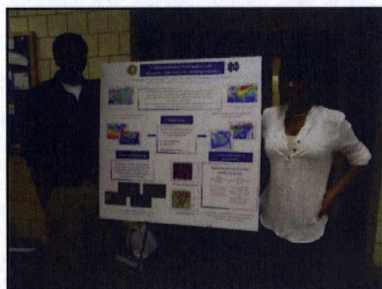
LS-LAMP STUDENT PROFILES - UNDERGRADUATES



JANAE' MILLER

completed her Bachelor of Science degree in chemistry in 2010 from Southern University and A&M College. While at SUBR, she was an LS-

LAMP scholar. She volunteered as a college math and chemistry tutor. In 2007, she was presented with a unique and rewarding opportunity to participate in Howard University's Summer Medical and Dental Education Program (SMDEP) where she was able to get a head start on upcoming science classes. The following summer she had the privilege to conduct research through the Louisiana Biomedical Research Network Program at Louisiana State University in the area of biochemistry, where she learned various lab techniques and had new findings in drug discovery. In her senior year, Ms. Miller won the Science and Engineering Alliance, Inc. (SEA) Undergraduate Award. Furthermore, she served as the president for the Minority Association of Pre- Medical Students (MAPS) club and Southern University's Chemistry Club. Ms. Miller is currently attending Meharry Medical School in Nashville, TN.



BRIANN D. MITCHEL

is a senior Chemical Engineering student at Xavier University of Louisiana. After this

year, Mitchell will be transferring to another institution to obtain a dual degree.

"I realized that a STEM discipline was for me my junior year in high school after I enrolled in a projects course," says Mitchell. From Fall 2009 to Spring 2010, under the direction of Dr. Anderson, Mitchell conducted research using an Atomic Force Microscope (AFM), collecting various samples. In the Summer 2009, Meza conducted research at the University of Notre Dame in a Computational Hydraulics Lab under the direction of Dr. Joannes J. Westerink. The research was in the field of civil engineering, and required contributing to identifying

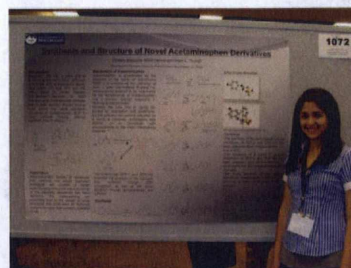
flow and transport problems related to environmental flows. Mitchell currently tutors high school students in science and math at two locations in the New Orleans area.



DEBORAH LYNN MUHAMMAD

is a senior double major in physics and secondary education in physics at Southern University and A&M College. She is a LS-LAMP Scholar, a

Physics and Mathematics Timbuktu Academy (PMTA) Scholar, and a recipient of the Robert Noyce Scholarship. In 1999, she co-authored the *Correlation Between The Global Learning and Observations to Benefit The Environment (Globe) & The Louisiana Science Content Standards and Correlation Between The Global Learning and Observations to Benefit The Environment (Globe) & The Louisiana Mathematics Content Standards* with Diola Bagayoko, Ph.D., Chair of the Department of Physics and the Southern University System Distinguished Professor of Physics. Mrs. Muhammad has worked with the LIGO (Laser Interferometer Gravitational Wave Observatory) Science Education Outreach Team as a team member and has collaborated with the Southern University Docent Training Program as a docent trainer as well as a Project MISE (Modeling Inquiry Science Education) site assistant coordinator with duties to assist in conducting teacher professional development workshops on informal science learning. She intends to pursue a Ph.D. in Math/Science Education with sights on working on national science policy and curricula for k-12 education. She also holds a B.A. in Print Journalism.



MACIEL PEREZ

is currently attending the University of New Orleans pursuing a Bachelor of Science in civil

engineering. She is expected to graduate in May of 2012. She graduated from Warren Easton Fundamental High School in 2008 with honors, being the 4th of her graduating class. As a LAMP student she has devoted her time not only to her courses but also to tutor students from K-12 and peers. After she

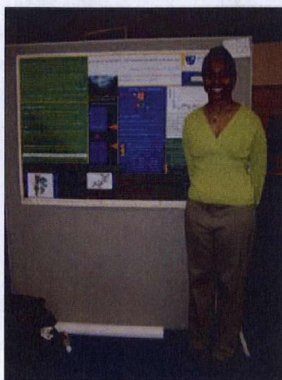
LS-LAMP STUDENT PROFILES - UNDERGRADUATES

graduates she wants to pursue a Master's degree in Structural or Environmental Engineering. Her goal is to graduate with at least her current grade point average of 3.5.



THEODORE NEWELL graduated with honors from Southern University and A&M College with a Bachelor of Science degree in computer science. Mr. Newell credits his academic success mainly to his participation in LS-

LAMP and the Timbuktu Academy. He says, "My experience with the Timbuktu Academy and LS-LAMP has driven me to pursue the goals that I now have the understanding to achieving in life." Mr. Newell has proven himself to be an erudite and proactive scholar of LS-LAMP by conducting research at major universities. While Cooping with the Department of Defense (DOD), Mr. Newell spent a year with DOD where he was afforded the opportunity to perform work in the area of computer science with a focus on security. This scholar credits his success not only to being a part of LS-LAMP but also to the professors and personnel who assisted him to become successful. As stated by Mr. Newell, "They make themselves available and provide the students with what they need to apply their knowledge effectively." Theodore is currently working at the Department of Defense as a part of the High Performance Computing Group. Mr. Newell says, "Due to my earlier work with Graphics Processing Units (GPUs), which was made possible through the influence of the Timbuktu Academy and LS-LAMP, I was offered a position with this team."



EBONE' BRIENNA PIERCE is a junior physics/pre-engineering major at Dillard University in a 3-2 program where she is currently pursuing dual degrees in Physics and Mechanical Engineering. She attends the Louisiana Alliance Minority Program (LAMP)

Undergraduate Research Day at Dillard University every year and has placed 2nd in the Research Competition. "LS-LAMP has provided me with

opportunities to compete in research competitions all over the world. I am a Science Math And Research For Transformation (SMART) Scholarship Program recipient, which allows me to intern at NASA for every summer upon graduation. I realized STEM was for me because it allows me to build and create things that will benefit others."



TIARIA PORCHE is a third-year undergraduate student at Southern University at New Orleans in New Orleans. She is a biology major and plans to graduate in May 2013. She has been a LAMP Scholar consecutively since spring 2010. Her academia which began in the

spring of 2009 she has maintained a 4.0 GPA in science. Her outstanding pursuits in academia gave her the opportunity to participate in many different National Conferences during the spring of 2011. In the summer of 2011, she participated in an intern program at Brookhaven National Laboratory, hosted by the Department of Energy, which was funded by the National Science foundation. As an intern she completed research on the validation of regression models in her research titled "Are the Regression Models Published in the Field of Environmental Science Reproducible?"

She is the Vice President of National Institute of Science; she plans to enter into dental profession upon graduation.



RASHANIQUE QUARELS is native of New Orleans, LA. Ms. Quarels, came to Southern University and A&M College to major in chemistry. As a LS-LAMP scholar, she has

been an active student at Southern University and A&M College participating in various academic clubs and also serving as a volunteer tutor for her peers in chemistry and mathematics. She has served as the Secretary of Southern University's Circle K Club, Co-Vice President of the Chemistry Club, and Junior Class Treasurer. Ms. Quarels has made several presentations on research she conducted during the academic year and summer internships; most notably are the LaSPACE Council Meeting and Symposium (September 2010), the Pre-Doctoral Scholars Institute

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

Summer Symposium (June 2010), and the Ronald E. McNair Summer Symposium (July 2009). Ms. Quarels has been awarded the UNCF Merck Fellowship for the 2011-12 academic year. She is also a recipient of the Science and Engineering Alliance (SEA) Award (October 2010), the UNCF/Monsanto Award (2010-2011), and the American Chemical Society Scholars Program Award (2011-2012). After graduation, Rashanique plans to pursue a Ph.D. in chemistry at Vanderbilt University. As stated by Ms. Quarels, "The systemic mentoring I received from LS-LAMP has truly been beneficial to my career both personally and academically."



SHALYN RILEY is a 2011 graduate of Jennings High School where she participated in various sports including basketball and track, as well as being active in the FBLA, Beta Club, and Leo Club.

She graduated with a 4.0 high school GPA and a score of 22 on the ACT. Shalyn is a recipient of the Louisiana TOPS Scholarship and attends McNeese State University majoring in biology.



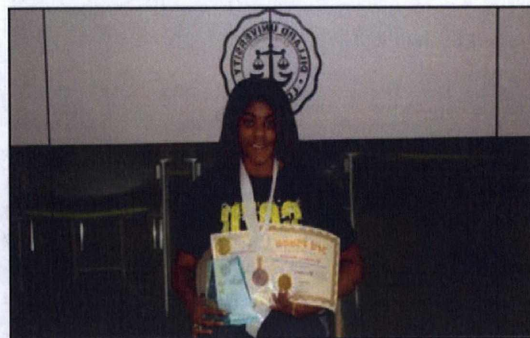
ATASHA L. ROBATEAU attends Southern University at New Orleans. She will be completing her Bachelor of Science in Biology in 2012. She has conducted research in the field of Ecology at Brookhaven National Laboratory. She

has presented that research at the Dept Department of Energy Science and Research Competition, Emerging Researchers National Conference, and National Institute of Science / BKX Joint 68th Annual Conference in which she won first place for her presentation. She has been awarded the Lamp/ SENS and academic scholarships each year for her outstanding academic achievements. Upon graduating she plans to pursue her doctrine degree in related studies.

ERIN ROGERS is a junior matriculating in biology with a dual minor in chemistry and Spanish at Southern University and A&M College. She is from the illustrious city of New Orleans, LA.



She has been a LS-LAMP scholar since her freshman year. Ms. Rogers is actively involved at Southern where she was Miss Freshman 2009-2010 and is currently the Deputy Commissioner of Elections for the fall 2011 semester. She is in several clubs at Southern including Beta Kappa Chi, the Collegiate 100 Black Women, and the National Institute of Science (NIS). She is involved in her community where she volunteers for over 1800 hours through AmeriCorps which is a national organization for service. In the summer of 2010, Erin was among several students selected to participate in the Tropical Pathology and Infectious Disease Association TM, Inc. (TPaIDATM, Inc.) Medical Internship. This internship took place in the jungles of Peru and at the Hospital Iquitos in Peru with Dr. Lane Rolling, Director of Clinical Education Hospital Apoyo Iquitos Peru. This internship experience gave Ms. Rogers a chance to treat the natives of Peru for HIV, STDs and other tropical diseases. As stated by Ms. Rogers, "The experience was beyond words, when I arrived I did not fully understand what I was getting myself into. The beautiful people, that family orientation and their quality of life is so much more meaningful than in the United States." Ms. Rogers expressed that she learned a very important lesson in Peru which is to never take life for granted. Erin hopes to one day fulfill her dreams and become an Orthopedic Surgeon.

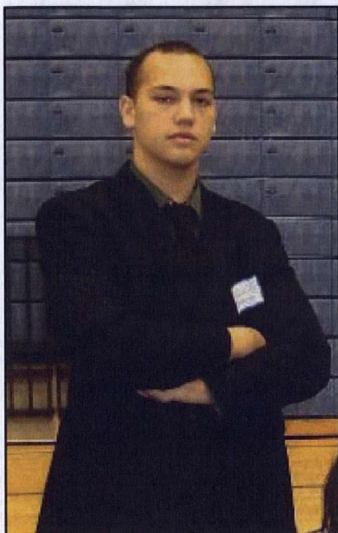


BREANNA RYAN is a sophomore biology major at Dillard University. She has presented and won awards at various local conferences. She is majoring

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

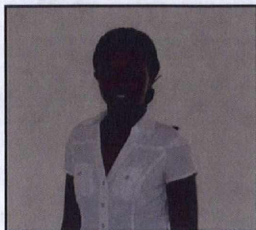
in STEM because she has always loved science. Her work has expanded her goals in pursuit of her Ph.D.

Breanna's research under the direction of her mentor Dr. Singleton has a broader impact on society because it deals with medical issues concerning the environment. She will be presenting her research at ABRCMS National Conference 2011. She has been offered an internship at the University of Colorado at Boulder for next summer, 2012.



MICHAEL

SAGAPOLUTELE is a Physics major at Dillard University. He plans to complete the 3-2 program to receive dual degrees in both Physics and Computer Science and go to graduate school. He became interested in LAMP through his advisor and teacher, Dr. Darwish. After joining LS-LAMP under the mentorship of Dr. Abdalla Darwish, LAMP helped to support his research with Dr. Darwish and his travel to conferences to present. Michael continues to conduct research in Nano surface thin film using the PLD technique under the excellent mentorship of Dr. Darwish in the laser lab of Dillard University.



RISPAH C SANG is currently pursuing a bachelor's degree in Mathematics at Southern University at New Orleans. During summer of 2011, she participated in summer undergraduate

Research Experience (SURE) at SUNO. Her research topic was Predominance of Certain Diseases in Minority Population under the mentorship of Dr. Joe Omojola. It was great experience and she is looking

forward to do more research next year.



WALLACE SCOTT is a 2011 graduate of West Feliciana High School where he participated in the FCA, Thespian Club as well as being part of the football, basketball and track team. He

graduated with a 3.6 high school GPA and a score of 20 on the ACT. Wallace is a recipient of the Louisiana TOPS Scholarship and attends McNeese State University majoring in biology. He is a LS-LAMP scholar.



RICKEIA SELMON is a junior majoring in biology at Southern University at New Orleans. She is a member of Beta Kappa Chi Scientific Honor Society. She is on the Dean's List and Honor Roll. She was published in the

university's newspaper, "The Observer" because of her achievements in the Trio Program as well as a brief synopsis of her summer research topic was provided. She is a recipient of the Scholarship for Excellence in Natural Sciences, Coca-Cola Scholarship and the Omicron Lambda Omega Chapter of Alpha Kappa Alpha Sorority in New Orleans, LA. During the summer of 2011, she participated in the Summer Undergraduate Research Experience Program conducting research. Her research project was "The Study and Investigation of Natural Insecticidal Properties of Capsaicin." Her project focused on designing an eco friendly insecticide using capsaicin. Her future plans are to attend dental school and aspire to become an orthodontist. After practicing orthodontics for a few years, she would like to start her own company of dental supplies and products. Although, she is interested in dentistry, her research has inspired her to perhaps receive a doctorate degree in biology.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

My name is **ALGY SEMIEN**, I am a sophomore civil engineering student with a special interest in environmental and structural engineering. I was on the president's list last fall semester and received academic achievement awards, for the 2010-2011 school year, from the honors program and the black faculty and staff caucus. I decided the STEM field was for me, because I knew I wanted to make a difference in my community, and the STEM field seems to me the best place to achieve that goal. Along with the LAMP, and STEM programs, I am part of the American Society of Civil Engineers Student chapter, the National Society of Black Engineers student chapter, the UL Honors program, and aspiring for more.



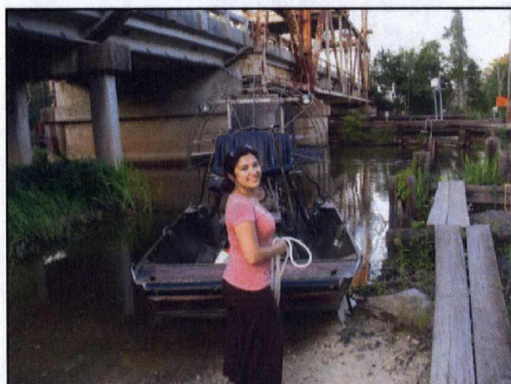
mathematics on the fact that those were the subjects of the books I read for pleasure.”

“Given the choice to ponder anything that I want, that is what I choose – it is what thrills me,” adds Siqueira.



JAZZMIN SMITH is a junior mathematics major. She is a Dean's List scholar with a natural ability to conquer logical problems. Since the 6th grade, she realized her joy of mathematic; partly due to the fact that she disliked reading stories

and knowing the logic of sentence structure. It was just not for her. She is also a member of the Women's Basketball team at Dillard University. “Being a student athlete pushes and guides me to be my best at all things, especially my academics. My legs can only take me so far. I have yet to find an internship in my undergraduate year, but I am looking forward to participating in one this upcoming summer. I would really like to work for the government; therefore I am looking for interns in that field. My research project this past spring was on cryptography. The logic of the security is provides and its mathematical bases drew my attention as soon as I was introduced to it.”



SUNNI ANN SIQUEIRA is a physics and mathematics major (with a minor in biology) at the University of New Orleans. She is also in the University Honors Program. Siqueira plans to graduate with university honors and departmental honors (physics) on December 17, 2011. She is an active participant in the LS-LAMP program and has served as a tutor for many semesters. She is the recipient of a SURE (Supervised Undergraduate Research Experiences) grant through LA EPSCoR, and is currently involved in thermoelectrics research. Siqueira plans to attend graduate school in the field of physics.

“At the beginning of my undergraduate career, I was undecided as to which field to pursue,” says Siqueira. “The courses I favored were science courses, and I ultimately based my decision to pursue physics and



DARON R. SPENCE is a senior electronic engineering tech and math student at Grambling State University. He is an LS-LAMP scholar. He organized a trip to the NSBE conference this year. He was awarded

summer internships at Stanford University and at The Ohio State University in 2010 and 2011 respectively. He worked as a biomedical informatics researcher. About his decision to study engineering he wrote: Throughout history man has been in a constant state of self improvement as a species. More specifically the tool we create and items we use for various purposes are always being altered through innovation. It is for this reason that the fields of engineering have such a strong hold on my career interest. I would like to be relevant in the future that will inevitably arrive and what better way to do that

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

than by concentrating ones study in a discipline that dictates the trends of a given era. Furthermore I have concentrated my efforts on the electronic aspect of engineering because the world is increasingly becoming more digitalized and the will be a need for individuals who have an understanding of electrical properties. In my mind engineering is on stable link between the present and the future.



JOSE M. SOSA is a Tulane LS-LAMP graduate with a Bachelor of Science degree in biomedical engineering. Currently, Sosa is enrolled in Tulane's biomedical engineering Masters Program. Awards received include LS-LAMP Summer Research Award (2010), LS-LAMP Academic Year Research Award (2011) and the 2011 Van Buskirk Scholarship.

Sosa started conducting research after receiving a summer research grant through LAMP at Tulane. "There I met my advisor and I have kept working with him for the past two years," says Sosa who is currently completing a 4+1 program with that same advisor.

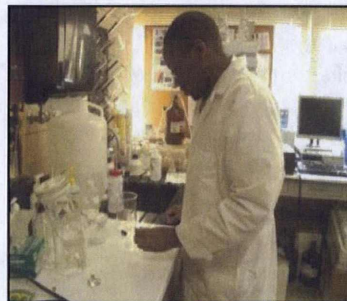
"If I had not been introduced to his lab, I may not have had the opportunity to conduct such fruitful research."



CATHRYN D. STEVENSON is a senior biology student at Grambling State University. She decided that she

wanted to major in biology after she shadowed her aunt around the pediatric clinic when she was 7 years old. Her aunt told her that the only way she could

become a doctor like her aunt and save lives was if she majored in biology in college. Since that moment, she has been in love with the sciences. She has been a LS-LAMP scholar since her freshman year. She was a LS-LAMP tutor in chemistry and biology during her first sophomore semester. She was awarded an internship at University of Minnesota, Minneapolis, MN, MRSEC in 2010, a FaSt-Program with Dr. G. Stewart in chemistry. She presented her work at the ABRCMS, Charlotte, North Carolina in 2010. She participated in the Meharry Medical College, Nashville, TN, BS/M.D Program in summer 2011. She is currently the secretary of Beta Kappa Chi Honor Society. Her achievements were awarded with a RISE scholarship in 2009.



POLITE STEWART, JR. is a Southern University physics major who was accepted into the University when he was

only 14 years old, after being homeschooled from the age of 3 years old. He was recruited by LS-LAMP his first semester with his promising academic achievements, scoring a 30 on the ACT at the age of 13 and an 1830 on the SAT. Mr. Stewart has enhanced his research skills and abilities with his superior performances during summer internships. He travelled to Erice, Italy to partake in a course on the production and storage of renewable and sustainable energy. His outstanding stature stems from his far superior communication skills borne from his meticulous practice of technical presentations and his writing. He is an amazing public speaker who has participated in oratorical contests and has been involved in quiz bowl and debates. He has been afforded the opportunity to give technical presentations at conferences, both national and international. He has conducted research in biochemistry, organic chemistry, and physics. His research projects have been focused on cancer treatment advances, molecule configuration, SiC nanowire structure analysis and functionalization, and kapton-copper straw configuration and testing for muon particle detection.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



NIGEL TATE is a 4th year Dual-Degree physics and engineering major at Xavier University of Louisiana. He was merited a full scholarship to XU as well as membership in the S-STEM Scholar program (another merit and research based scholarship). Tate is also on the Dean's List.

Tate has conducted research in Notre Dame's Computational Hydraulics lab on creating coastal water circulation models that are used to solve Engineering problems concerning storm surges and waste management. He presented his research with a scientific poster at XU's annual Festival of Scholars.

Tate has also conducted research at the Thomas Jefferson National Accelerator Facility on calorimeter detectors used in electron beam tunnels. There, he constructed an experiment to refurbish lead glass blocks that have been yellowed by radiation without damaging the attached phototubes. He is also currently conducting research concerning the index of refraction of a special gas used at Particle Accelerator labs with my mentor, Dr. Frank Wesselmann. Tate decided to pursue a career in Physics and Engineering because He was naturally good at the math and sciences and I want to be involved in the scientific advancement of our society.



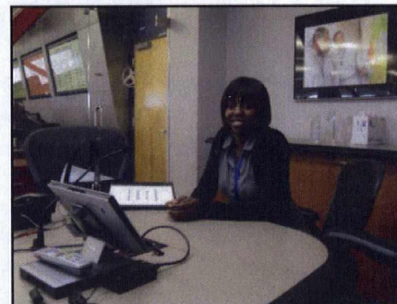
JAMEYCIA TENO is an undergraduate junior majoring in biological sciences at Louisiana State University. She is currently conducting research under Dr. Robert Cook in the Department of Chemistry. Her research focuses on the investigation of the mechanism of association

of gold nanoparticles with humic substances. Ms. Teno plans on attending graduate school after graduation.



CHARNE THOMAS is a junior chemistry major, working with Dr. Bernard Singleton on environmental microbiological projects at Dillard. Her research has a broader impact on society because of the health issues. She has had an interest in chemistry and research since high school and has won awards at local conferences presenting her research. Charne participated in an internship this summer with the Department of Microbiology and Immunology at the University of Miami's Miller School of Medicine in Miami, Florida. She has traveled to and presented at several national conferences.

FELICIA THOMAS was born and raised in New Orleans, Louisiana, and is expecting to graduate in December 2011. She will be receiving a Bachelor of



Science in electrical engineering from the University of New Orleans, and a B.S in Physics from Xavier University of Louisiana. Felicia is the Former President of the University of New Orleans chapter of the National Society of Black Engineers, and has done research at Texas A&M University on wire delay variations to obtain optimization in computer-aided design for VLSI circuits and systems. Felicia was also selected to complete and internship with SEMPRA Utilities, and is currently working an internship at Ion Geophysical Marine Imaging. She is also active in volunteering for various community service activities.

LS-LAMP STUDENT PROFILES - UNDERGRADUATES



DOMINIQUE TOWNSEND earned her Bachelor of Science in biology in 2011 from Southern University at New Orleans (SUNO) and pursuing her Ph.D. in toxicology at Southern University in Baton Rouge. While at SUNO Dominique was mentored by Dr. Murty

Kambhampati and participated in summer internship at the Brookhaven National Laboratory. Dominique attended several conferences and won 1st place for her poster presentation at the MGE@MSA Student Conference was also the vice present for the National Institute of Science SUNO Chapter.

University of Georgia, Athens, GA, and at Purdue University, West Lafayette, IN. Her experiences at these internships allowed her to gain considerable knowledge in the use of Nuclear Magnetic Resonance (NMR) and Gas Chromatography Mass Spectrometry (GC-MS). About her decision to become a chemist

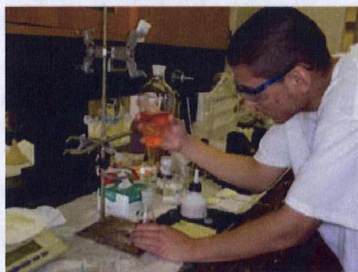


she said: "When it was time for me to select a major, I could not see myself doing anything else. Out of all of the subjects that I had been exposed to, chemistry seemed like the most interesting one and because of that, I stuck with it. I have not

regretted it since."

ALEXANDER

TROCHEZ is a junior chemistry student at Grambling State University. He was a LS-LAMP research assistant during summer 2010. He

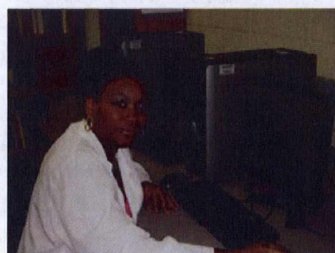


presented his research at Emerging Researchers Conference, Washington D.C. in February 2011. Mr. Trochez was awarded an undergraduate Summer Research Internship with the Macosko Research Group at The University of Minnesota in 2011. His research focused on the investigation of the end effect correction factor for new geometries for rotational rheometers. He acquired experience in optimization of instrumental techniques, data reduction and interpretation for rheological measurements. His performance was awarded with a MARC scholarship.

ASHLEY WALLACE is currently pursuing a Bachelor of Science degree in chemistry at Southern University and A&M College and has been a LS-LAMP Scholar since the spring of 2008. Ms. Wallace believes that LS-LAMP has given her tremendous assistance throughout her matriculation at Southern University. Ms. Wallace stated "LS-LAMP has provided the security and guidance I needed while attending school so many miles away from home. The seminars provided much insight on techniques that have assisted in preparing me for any obstacle set before me, whether it was a test or a presentation. The directors of LS-LAMP have not only encouraged me to be the best, but they have also motivated me to encourage other students to become involved participants of the program." As such, Ms. Wallace currently serves as a Southern University ambassador which gives her the opportunity to advocate the importance of higher education and encourage young adults to take advantage of the available educational opportunities. Ashley is a member of the Southern University Honors College, a cancer support group volunteer, and is constantly encouraging younger students to attend conferences and present the research they conduct throughout the semester, as well as during their summer research experiences. Ms. Wallace has previously worked as a research intern at Michigan State University during the summer of 2011, conducting research under the instruction of Kevin D. Walker, Ph.D. She also conducted research under the supervision of Michelle Fletcher Claville, Ph.D. at Southern University and presented her research in Monroe, Louisiana, at an annual conference hosted by the Louisiana Academy of Sciences. Her research entailed performing one-electron oxidation on Methionine and simple analogs

TIFFANY

VICTOR is a senior chemistry student at Grambling State University. She is currently an LS-LAMP scholar. She has been a math supplemental



instructor since January 2010. She participated in the LBRN program at Louisiana State University, Baton Rouge, LA, the SURF program in the Complex Carbohydrate Research Center (CCRC) at the

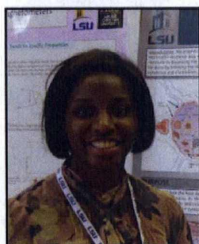
LS-LAMP STUDENT PROFILES - UNDERGRADUATES

of Methionine using peroxydinitrite. Her ultimate objective is to obtain a Ph.D. in organic chemistry or in toxicology.



SHONTE' R. WALTON is a senior Mathematics major at Dillard University and a native of Saginaw, Michigan. She came to Dillard University in 2008. Walton attributes her decision to major in mathematics can to mentor Dr. Hong Dai. The LAMP program supported her research in statistics and allowed her to travel and present findings at various conferences, including the National Technical Association 83rd annual conference and the National Society of Black Physicists Joint Conference, both in 2011. Additionally, Shonte' participated in the Smooth Transition for Advancement to Graduate Education (STAGE) at the University of Louisiana at Lafayette where she explored two research topics subject to future publication.

Ms. Walton has always had a drive to succeed. Her ambition is to obtain a doctoral degree. For Shonte', becoming a Dillard University LAMP scholar meant more than just a stipend, the LAMP program helped to equip her for the next level.



MELANIE WARREN is an undergraduate senior majoring in biological sciences at Louisiana State University. She is currently conducting research under Dr. Prosanta Chakrabarty in the Department of Biological Sciences. Her research focuses on documenting and cataloging genetic sequence from morphological type specimens. After graduation, Ms. Warren plans on applying to graduate programs in the biomedical field.

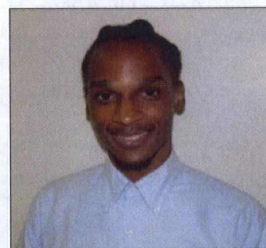


CATHERINE GASPARD WILLIAMS is a student at Southern University at New Orleans (SUNO). She is a junior, majoring in mathematics. Her research interest is algebra. She hopes to help elementary to college students in mathematics. Her mentor is Dr. Omojola at SUNO.



SIMEON WILSON is a Junior Physics student, who joined LS-LAMP three years ago and works in the laser-Nano surface materials lab at Dillard

University, which was funded by multiple grants from DOD-AFOSR and the U.S. Navy. Simeon states, "LS-LAMP systemic research mentoring program, at the School of STEM, changed my way of life and my vision to my future. Working with Dr. Darwish and on AFOSR projects enabled me to publish two papers and attend over seven scientific conferences to present my research finding." Simeon has co-authored two peer reviewed publications, Darwish, A. M., Wilson, S., Alkahby, H., Koplitz, B., "Preparation of BaTiO₃ thin films by double-pulse-lasers deposition" and A. Darwish, Simeon Wilson, Brent Koplitz "Pulsed laser deposition of epitaxial BaFeO₃ thin films" in Photonic Fiber and Crystal Devices: Advances in Materials and Innovations in Device Applications V, SPIE Vol. 8120 ,2011. Simeon is planning to attend graduate school in material science in 2013.



TROMEL WILLIS is a senior at Southern University pursuing a Bachelor of Science degree in biology. He is expected to graduate in the spring of 2012. A native of New Orleans, LA, Mr. Willis and his family relocated from there three days after the city was devastated by Hurricane Katrina in 2005. During this traumatic time, Mr. Willis was a senior in high school. This relocation forced Mr. Willis to complete his senior year at Scotlandville Magnet High School in Baton Rouge, LA. In 2007, he began his undergraduate matriculation at Southern, and in the fall of 2009,

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

Tromel was accepted into LS-LAMP. Since then, he has won various awards which include Most Improved Student in Organic Chemistry (Spring 2010) and First Place in the Ronald McNair Summer 2011 Symposium Oral Presentation Contest. Because of the various summer research and graduate school opportunities Mr. Willis has been exposed to as a result of being a LS-LAMP Scholar, he applied for and was accepted into the Ronald E. McNair 2011 Summer Program. He conducted research on "Factors that Affect the Growth and Metabolism of *Escherichia coli*" under the mentorship of Dr. William Moore, Distinguished Professor of Chemistry, Southern University. Mr. Willis stated, "This was the first time I ever conducted research over the summer and it wouldn't have been possible if LS-LAMP wouldn't have notified me about the opportunity to become a McNair Scholar."

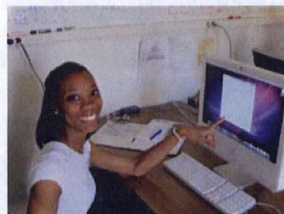


PATRICE WILTZ is a junior biology/ pre-med major at the University of Louisiana at Lafayette. She anticipates receiving a bachelor's of science degree in the spring of 2013.

Wiltz has received the following awards and honors: SGA scholarship, 2nd year AmeriCorps member award, 2nd place oratory Juneteenth Day competition, recognition as a LAMP scholar, 1st place Juneteenth Day essay contest, AmeriCorps responsibility award, and nominated as AmeriCorps's most outstanding sophomore and for the black student achievement award.

Presently, she is working in Dr. Chlan's lab. Dr. Chlan is a UL biology professor who research area deals with cellular and molecular biology. Apart from her academic involvement, she also participates in a number of service learning and community service activities. She is an ULL AmeriCorps alum and has performed over 900 hours of service to the Lafayette, New Orleans, and Galveston areas.

She is also a member of the UL honor's program, Sigma Alpha Lambda, Pre-Professional Society, LAMP, STEM, Students in Service, and Peer Mentor's. Wiltz also has a part time job at the University Medical Center as a student worker for the Tobacco Control Initiative Program.



VALENCIA WISE is a student athlete with a passion for excellence. She is a member of Beta Kappa Chi Honor Society, tutors, and has received numerous awards as a member of

the Dillard University Volleyball Team. Valencia conducted a LAMP research under the mentorship of Dr. Lynda R. Louis. In the summer of 2011 she completed an internship through the Multicultural Access to Research Training (SMART), University of Colorado at Boulder, Computational Biology Lab. A publication is in process, headed by her summer mentor, Dr. Goldberg.

Valencia plans either to attend graduate school, or work with Teach for America Program. She says "I have a passion to explore new opportunities even if I have to go out and find or create them."



JAZIMEN ELEIGHAH WOLVERTON is a third-year student at Southern University at New Orleans (SUNO); majoring in Biology. She graduated cum laude from Oliver Perry Walker Charter High School in 2009. As an

undergraduate, Jazimen serves as a Louisiana Louis Stokes Alliance for Minority Participation (LA LAMP) Scholar, and a Tom Joyner Scholarship recipient. While at SUNO, Jazimen has been mentored by Dr. Tonye Numbere and Dr. Illya Tietzel. Jazimen is currently seeking research opportunities and is enthusiastic about her upcoming senior year. Upon graduation, Jazimen plans to attend Xavier University of Louisiana College of Pharmacy.

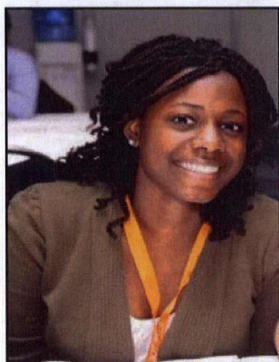


G'NITA WRIGHT is a sophomore chemistry major at Southern University, Baton Rouge. She became interested in chemistry after having a wonderful teacher that challenged her to learn more about how elements work in everyone's natural lives. This

fostered throughout her matriculation at SU and led to her participating in the Summer Bridge Institute (SBI) and being part of LS-LAMP. Ms. Wright has been a LS-LAMP scholar ever since her freshman year at Southern. According to her, "These programs

LS-LAMP STUDENT PROFILES - UNDERGRADUATES

have taught me the importance of research during my undergraduate matriculation as well as keeping me informed about research opportunities." In the summer of 2011, Ms. Wright was able to secure a summer internship on Southern's campus with the LA-SIGMA REU program. The title of her research was "Stereographic Visualization of Molecular Configurations in a CAVE." Her academic goal is to obtain a Bachelor of Science degree and to matriculate into a productive Ph.D. program in chemistry.



JALISSA WYNDER is a first generation college student in her family. She attends Southern University in pursuit of a Bachelor of Science degree in chemistry. Ms. Wynder's love for research has been exemplified by her work in Dr. Wesley Grey's chemistry lab for the past two years studying

the effects of a natural compound on breast cancer. She attributes her academic success to being a LS-LAMP scholar. According to Ms. Wynder, "This program has fostered numerous avenues of resources on how I can continue my education." She intends to obtain a Ph.D. in chemistry with focus in biochemistry and then go on to attain a postdoctoral position followed by a career as a professor at a university where she can make a profound impact on the scientific community. Ms. Wynder stated, "LS-LAMP has been a source of financial support, research experience, and numerous networking opportunities. Through LS-LAMP, I was awarded my first summer fellowship to learn how to conduct research. I have the work ethic, desire, and experience to excel in my chosen field, and I believe LS-LAMP has been the source of my academic success through their support and endless opportunities they provide to students."



SHAQUAN X is a third year physics student with a minor in mathematics. As an undergraduate, his main objective is to gain a thorough understanding of the sciences that is useful to help build a better society in the African American community. Currently, he is assisting his research mentor in magnetic dampening of electrodeposits, which measures the energy loss in magnetic polarization of electrodeposited permalloy structures with copper interfaces. Upon graduation, his plan is to pursue a Master of Science degree in civil engineering which will complement his goal to establish a construction business within an urban black society.



**LOUIS STOKES
LOUISIANA ALLIANCE
FOR MINORITY PARTICIPATION**
Awarded 1995

LOUIS STOKES LOUISIANA ALLIANCE FOR MINORITY PARTICIPATION (LS-LAMP)
STATEWIDE MANAGEMENT OFFICE
Southern University and A&M College
P.O. BOX 9274
Baton Rouge, Louisiana 70813
Phone: 225.771.2777
Fax: 225.771.2311
www.ls-lamp.org

LS-LAMP CAMPUS COORDINATORS

DILLARD UNIVERSITY
Dr. Abdalla Darwish
504.816.4840
adarwish@dillard.edu

NUNEZ COMMUNITY COLLEGE
Christine Thomas
251.580.8398
cthomas9475@yahoo.com

TULANE UNIVERSITY
Dr. Michael Cunningham
504.862.3308
mcunnin1@tulane.edu

GRAMBLING STATE UNIVERSITY
Dr. Pia Albuquerque
318.274.6034
alburquerque@gram.edu

SOUTHERN UNIVERSITY
AND A&M COLLEGE
Dr. Diola Bagayoko and Dr. Ella L. Kelley
225.771.2730 | 225.771.4846
bagayoko@aol.com
ella_kelley@subr.edu

UNIVERSITY OF LOUISIANA-
LAFAYETTE
Dr. Vijay Raghavan
and Dr. Bobbie DeCuir
337.482.6603 | 482.6833
raghavan@louisiana.edu
bobbie.decuir@louisiana.edu

LOUISIANA STATE UNIVERSITY
Dr. Su-Seng Pang
225.578.5892
mepang@me.lsu.edu

SOUTHERN UNIVERSITY AT
NEW ORLEANS
Dr. Joe Omojola
504.286.5096
jomojola@suno.edu

UNIVERSITY OF NEW ORLEANS
Dr. Ashok Puri
504.280.6341
apuri@uno.edu

LUMCON
Paul Sammarco
985.851.2876
psammarco@lumcon.edu

SOUTHERN UNIVERSITY AT
SHREVEPORT
Dr. Robert Hudson
318.670.6363
rhudson@susla.edu

XAVIER UNIVERSITY OF LOUISIANA
Dr. Murty Akundi
504.520.7647
makundi@xula.edu

McNEESE STATE UNIVERSITY
Dr. George Mead
337.475.5785
mead@mcneese.edu

