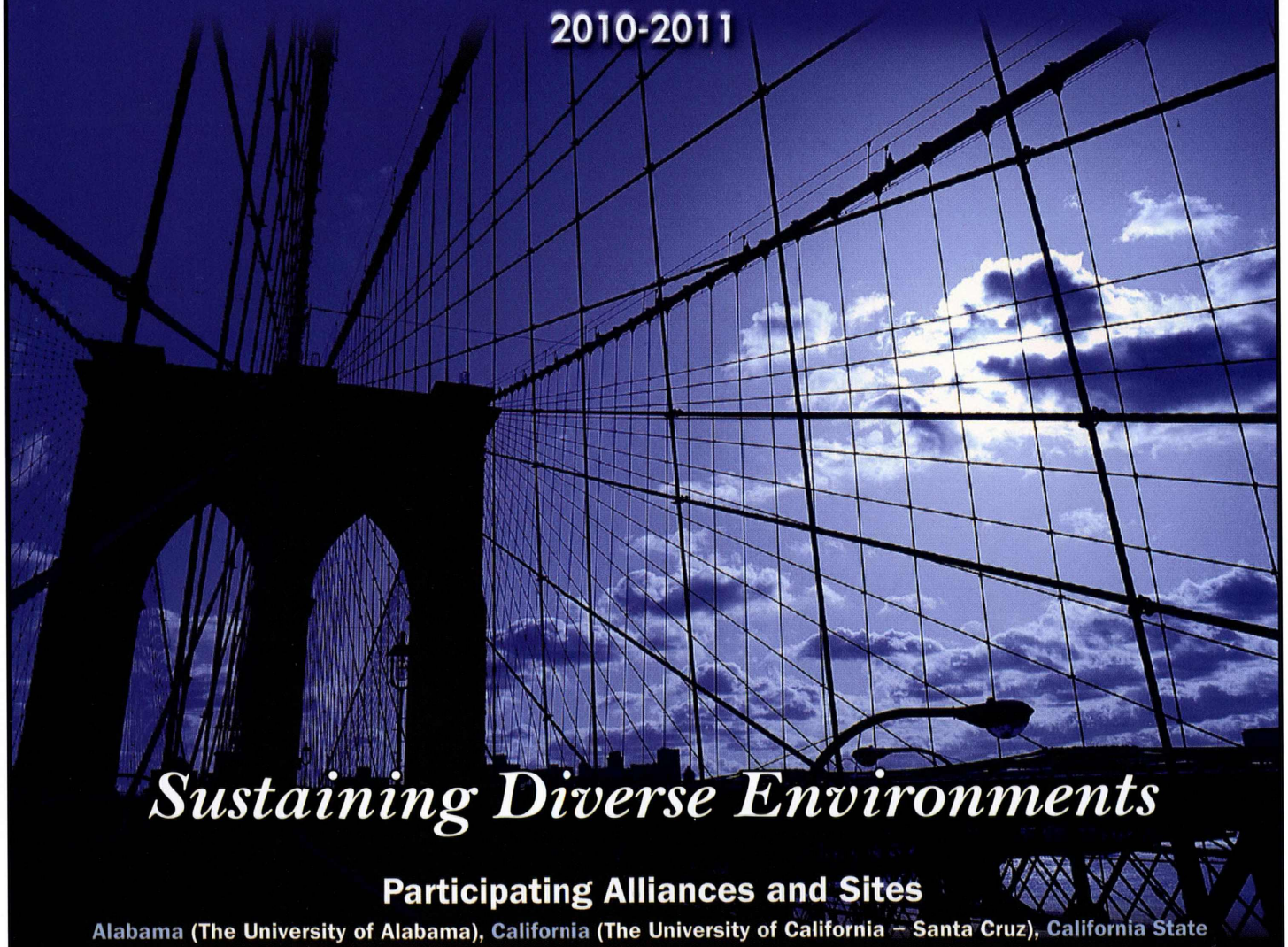
THE NATIONAL SCIENCE FOUNDATION

Louis Stokes Alliance for Minority Participation

BRIDGE TO THE DOCTORATE

Cohort VIII

2010-2011



Sustaining Diverse Environments

Participating Alliances and Sites

Alabama (The University of Alabama), California (The University of California – Santa Cruz), California State University (California State University – Los Angeles), Colorado (Colorado School of Mines and Technology), Florida-Georgia (Florida A&M University), Mississippi (Jackson State University), New Mexico (University of New Mexico), New York (City University of New York), Philadelphia (Drexel University), Puerto Rico (The University of Puerto Rico – Rio Piedras), State University of New York (SUNY – Stony Brook), TexasA&M University System (Texas A&M), University of Texas System (The University of Texas – Arlington), University System of Maryland (The University of Maryland – Baltimore County), Western Alliance to Expand Student Opportunities (WAESO) (Arizona State University)

June 2011

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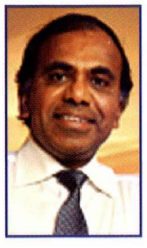
2010 – 2012 Alliances, Institutions and Students

The National Science Foundation • 4201 Wilson Boulevard, Arlington, VA 22230

The National Science Foundation (NSF) is an independent federal agency created by Congress in 1950 "to promote the progress of science; to advance the national health, prosperity and welfare; to secure the national defense...." With an annual budget of about $6.06 billion, we are the funding source for approximately 20 percent of all federally supported basic research conducted by America's colleges and universities.



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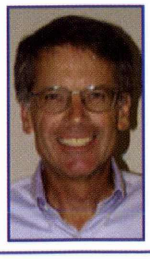

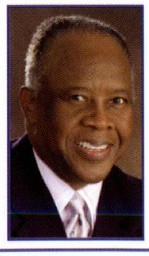

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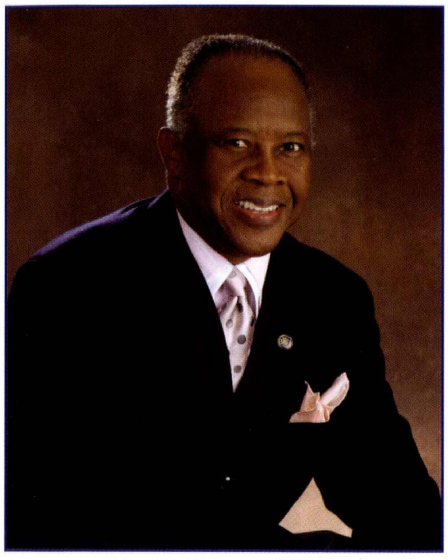
Bridge to the Doctorate Activity Has Broad Impact



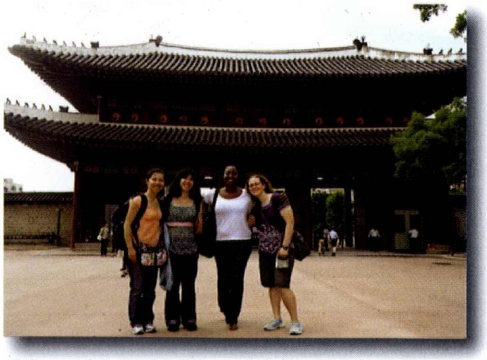
Dr. A. James Hicks
LSAMP Senior Program Director

Beginning in 2003 through 2011, nearly 1500 Bridge to the Doctorate (BD) scholars have participated in LSAMP's post-baccalaureate activity. Fourteen highly successful graduate institutions are host sites for the present BD-Cohort VIII. The academic sites are widely spread from New York, Pennsylvania and Maryland to California, Arizona, New Mexico, Colorado, Oklahoma and Texas, and from Louisiana, Mississippi, Alabama, North Carolina, Florida and Puerto Rico to the south and beyond. Also included in this issue of the BD magazine is a history of institution hosting prior BD programs as well as the STEM distribution of participants.

Elements of the 24-month long BD post baccalaureate activity include, but are not limited to graduate course work, professional and research skill building, academic research, faculty-led mentoring, teamsmanship, career awareness, professional development, scientific and professional ethics, etc. As an added bonus and where appropriate, BD sites may choose students for international experiences in their chosen STEM disciplines. An important best practice learned in LSAMP is the notion that the community matters, therefore, it is common to find 12 students at each of the partnering graduate sites.

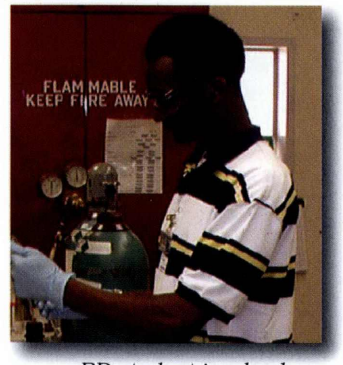
> In responding to the question about the impact of the LSAMP-BD activity in Higher Education, Dr. Ralph Turner says, "The Bridge to the Doctorate (BD) program has served as the primary catalyst for fostering new initiatives that have produced a more diverse graduate community within STEM areas of study amongst our member campuses," *Ralph Turner, Ph.D. Director, Florida-Georgia Louis Stokes Alliance.*

Readers are encouraged to enjoy each page of this edition of the Bridge to the Doctorate document.



BD students at research conference in Korea

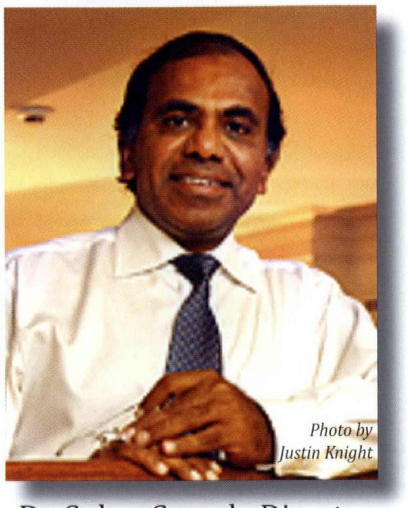
BD students in short course in Santiago, Chile



BD student involved in research activities

Dr. Subra Suresh Appointed New Director of NSF

Subra Suresh was sworn in as the Thirteenth Director of the National Science Foundation (NSF) on October 18, 2010. Previously, Suresh, 54, served as Dean of the Engineering School and Vannevar Bush Professor of Engineering at the Massachusetts Institute of Technology (MIT).



Dr. Subra Suresh, Director
National Science Foundation

A mechanical engineer who later became interested in materials science and biology, Suresh has done pioneering work studying the biomechanics of blood cells under the influence of diseases such as malaria.

Suresh earned a bachelor's degree from the Indian Institute of Technology Madras in 1977, a master's degree from Iowa State University in 1979, and a doctorate from MIT in 1981. Following postdoctoral research from 1981 to 1983 at the University of California Berkeley and the Lawrence Berkeley National Laboratory, he joined Brown University as an assistant professor and was promoted to full professor in 1989. He joined MIT in 1993 as the R.P. Simmons Professor of Materials Science and Engineering and held joint faculty appointments in the Departments of Mechanical Engineering and Biological Engineering, as well as the Division of Health Sciences and Technology. From 2000 to 2006, Suresh served as the Head of the MIT Department of Materials Science and Engineering.

Suresh was formally nominated by President Obama to become the new NSF Director on June 8, 2010.

> *"I am proud that such experienced and committed individuals have agreed to take on these important roles in my administration. I look forward to working with them in the coming months and year." President Barack Obama*

Suresh is the author of more than 220 research articles in international journals, coeditor of five books, and co- inventor on more than 12 U.S. and international patents. More than 100 students, postdoctoral associates, and research scientists have trained in his research group, and many now occupy prominent positions in academia, industry and governments around the world. He is author or co-author of several books, including Fatigue of Materials and Thin Film Materials — widely used in materials science engineering.

> *"Through his invigorating leadership, Dean Suresh has led MIT's School of Engineering while pursuing his own remarkable research portfolio at the intersection of the life sciences and engineering. In keeping with MIT's long tradition of national service he will bring this same breadth of knowledge and vision to the National Science Foundation." MIT Provost Rafael Reif*

Bridge to the Doctorate Summary

LSAMP	BD Site	Cohort	LS	Ph.S.	Egr.	Math	CIS	Total	Grand Total
Alabama	Auburn University	C1, C6	5	4	5	8	2	24	98
	The University of Alabama in Huntsville	C2	4	3	3	1	3	14	
	The University of Alabama at Birmingham	C3, C7	4	5	10	2	3	24	
	Tuskegee University	C4	3	4	5	0	0	12	
	The University of Alabama	C5, C8	10	6	4	3	1	24	
California	University of California – Los Angeles	C1	2	6	1	0	0	9	66
	University of California – Irvine	C2	4	2	4	0	2	12	
	University of California – San D iego	C3	6	2	3	0	1	12	
	University of California - Davis	C4	4	5	3	0	0	12	
	University of California – Santa Barbara	C7	0	3	5	2	1	11	
	University of California – Santa Cruz	C8	0	8	0	1	1	10	
California State University	San Francisco State University	C1, C4	13	5	2	4	3	27	100
	California State University – Los Angeles	C2, C3, C5, C6,C8	19	20	12	8	2	61	
	California State University – Northridge		0	5	1	5	1	12	
Colorado	Colorado State University	C4, C5, C6	12	15	10	2	1	40	51
	Colorado School of Mines and Technology	C8	0	1	10	0	0	11	
Florida-Georgia	Florida State University	C1	3	2	3	1	1	10	78
	University of South Florida	C2, C3, C4, C7	17	8	25	2	0	52	
	University of Florida	C6, C8	5	3	6	1	1	16	
Houston	University of Houston	C7	0	2	1	2	1	6	6
Illinois	Southern Illinois University at Carbondale	C2, C3	12	7	6	0	1	26	60
	University of Illinois - Chicago	C4, C5, C6	17	10	5	2	0	34	
Louisiana	Louisiana State University	C3, C4, C5, C6	10	20	11	1	4	46	46
Mississippi	Jackson State University	A	25	35	15	5	9	89	89
New Mexico	New Mexico State University	A	23	24	39	6	0	92	92
New York City	The City University of New York (CUNY)	A	21	21	29	14	13	98	98
North Carolina	North Carolina A&T State University	C1	0	2	7	0	1	10	44
	University of North Carolina at Charlotte	C2	0	3	6	0	3	12	
	North Carolina Central University	C3	5	6	0	0	1	12	
	North Carolina State University	C6	0	2	5	3	0	10	
Oklahoma	Oklahoma State University	C2, C6	11	4	7	0	2	24	42
	University of Oklahoma	C3, C7	3	6	7	1	1	18	
Philadelphia	The University of Delaware	C1	2	2	6	0	0	10	95
	New Jersey Institute of Technology	C2	1	0	8	0	3	12	
	Drexel University	C3, C8	4	3	16	0	1	24	
	Delaware State University	C4, C6, C7	23	8	0	5	1	37	
	Temple University	C5	4	5	0	1	2	12	
Puerto Rico	University of Puerto Rico at Rio Piedras	C1, C3, C4, C5, C6, C7, C8	22	47	7	6	0	82	94
	University of Puerto Rico at Mayaguez	C2	3	6	3	0	0	12	
State University of New York	SUNY - Stony Brook	C4, C6, C7	15	5	11	2	1	34	56
	The University of Buffalo	C5,C8	0	10	10	0	2	22	
Texas A&M University System	Texas A&M University	C1, C2, C4, C6, C8	10	12	29	6	1	58	70
	Prairie View A&M University	C3	0	0	9	2	1	12	
University of Texas System	University of Texas at El Paso	C1, C3, C6, C7	8	10	21	2	4	45	69
	University of Texas - Pan American	C2	3	0	3	5	1	12	
	University of Texas - Arlington	C8	0	5	5	2	0	12	
University System of Maryland	University of Maryland, Baltimore County	C3, C7	0	2	14	2	8	26	61
	University of Maryland, College Park	C4, C6, C8	4	10	15	5	1	35	
Washington/Baltimore/ Hampton Roads	Howard University	C2, C3, C4, C5, C6	31	13	4	11	2	61	61
WAESO	Arizona State University	C1, C2, C3, C4, C5, C6, C8	10	7	17	42	0	76	76
Total			**378**	**394**	**428**	**165**	**87**	**1452**	**1452**

KEY:

LS = Life Sciences
Ph.S. = Physical Sciences
Egr. = Engineering
CIS = Computer Information Systems

C1 = Cohort I ('03-'05)
C2 = Cohort II ('04-'06)
C3 = Cohort III ('05-'07)
C4 = Cohort IV ('06-'08)
C5 = Cohort V ('07-'09)
C6 = Cohort VI ('08-'09)
C7 = Cohort VII ('09-'11)
C8 = Cohort VIII ('10-'12)

A = All Cohorts
Blue = Lead Instituion

Joint Annual Meeting 2010

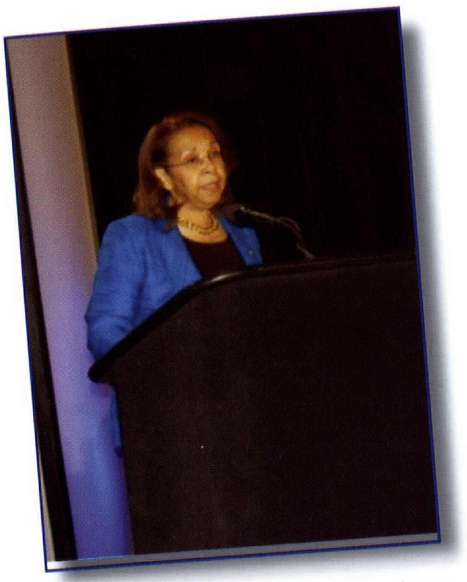
Dr. Art Hicks

Bridge to the Doctorate Students

Sustaining Diverse Environments

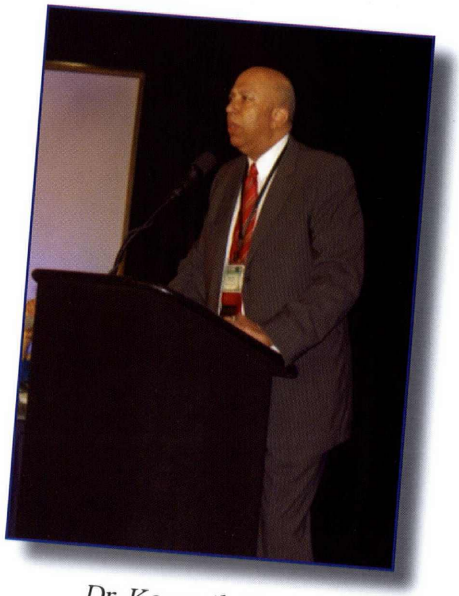
Joint Annual Meeting participants attending the opening plenary session

Joint Annual Meeting 2010



Dr. Shirley Malcolm, American Association for the Advancement of Science

Dr. Marybeth A. Eden, Director, International Space Station



Dr. Kenneth Boutte, Assistant Program Officer, LSAMP

Career Guidance from the Experts

Bridge to the Doctorate Students in breakout session

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	Prairie View A&M University	Dr. Kendall T. Harris, (936) 857-4200, ktharris@pvamu.edu Dr. Danny R. Kelley, (936) 857-4710, danny_kelley@pvamu.edu	C3
University of Texas System	The University of Texas, El Paso	Dr. Benjamin Flores, (915) 747-6961, flores@ece.utep.edu Ms. Ariana Arciero, (915) 747-8725, avarcier@utep.edu	C1, C3, C6, C7
	The University of Texas - Pan American	Dr. Miguel Paredes, (956) 381-3452 ext. 2290, mparedes@panam.edu	C2
	The University of Texas - Arlington	Dr. Tuncay Aktosun, (817) 272-1545, aktosun@uta.edu; Dr. Benjamin Flores, (915) 747-6961, flores@ece.utep.edu; Ms. Ariana Arciero, (915) 747-8725, avarcier@utep.edu	C8
University System of Maryland	The University of Maryland - Baltimore County	Dr. Cynthia Hill, (410) 455-2274, chill@umbc.edu Dr. Freeman Hrabowski, III, (410) 455-2274, hrabowski@umbc.edu Dr. Renetta G. Tull, (410) 455-2930, rtull@umbc.edu	C3, C7
	The University of Maryland - College Park	Ms. Tamara N. Hamilton, (301) 405-3882, hamiltot@umd.edu; Dr. Cynthia Hill, (410) 455-2274, chill@umbc.edu; Dr. Freeman Hrabowski, III, (410) 455-2274, hrabowski@umbc.edu	C4, C6, C8
Washington/ Baltimore/ Hampton Roads	Howard University	Dr. Clarence Lee, (202) 238-2511, cmlee@howard.edu	C2, C3, C4, C5, C6
Western Alliance to Expand Student Opportunities (WAESO)	Arizona State University	Dr. Antonio Garcia, (480) 965-8798, tony.garcia@asu.edu	C1, C2, C3, C4, C5, C6, C8

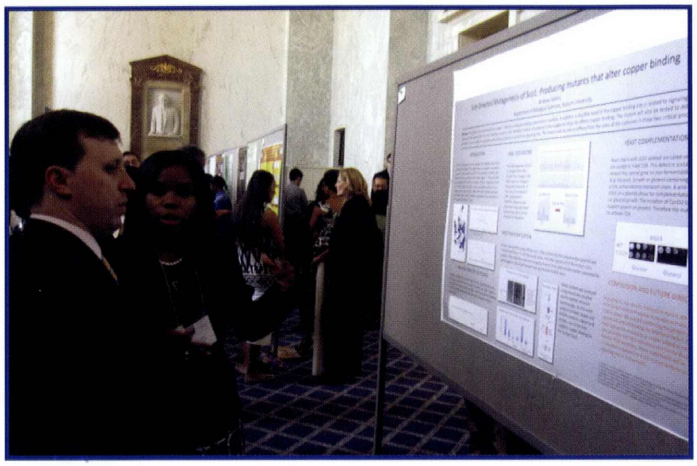
KEY CODES:

C1=Cohort 1 ('03 - '05)
C2=Cohort 2 ('04 - 06)
C3=Cohort 3 ('05 -'07)
C4=Cohort 4 ('06 - '08)
C5=Cohort 5 ('07 - '09)
C6=Cohort 6 ('08 -'10)
C7=Cohort 7 ('09-'11)
C8=Cohort 8 ('10-'12)
A= All Cohorts

Student News and Accomplishments 2010

Alabama

On Thursday, July 22, 2010, Alabama LSAMP was represented at a principal investigator/ project directors' meeting of the Louis Stokes Alliance for Minority Participation (LSAMP) at the Washington Hilton Hotel in Washington, DC. Dr. Clarence Lee, Executive Director of the Washington Baltimore Hampton Roads (WBHR)-LSAMP Program, welcomed more than 75 faculty and students to the meeting. A poster session of exemplary research was held in the afternoon at the Rayburn Building on Capitol Hill. Alabama BD students were among the more than 50 students that prepared posters to showcase their research to members of congress and their staff.



Congresswoman Eddie Bernice Johnson from the Thirtieth District of Texas served as the hostess for this portion of the meeting.

During the poster session from 4:00-6:00 pm in the Rayburn Building, a number of visitors came to talk with the students presenting their posters. Notable among them were Congressman Ruben Hinojosa from the Fifteenth District of Texas and chair of the Higher Education Committee in the House, staff member Eric Hammond, legislative assistant to Congresswoman Johnson and grandson of former Congressman Louis Stokes, for whom the LSAMP program is named. Other staffers of Congressman Sheila Jackson Lee in Texas, as well as congressional staffers from Massachusetts, Missouri, New York and others states, visited the students during the poster sessions. The students were also able to share and discuss their research results with other students from other LSAMP Alliances during the poster session.

Alabama student discusses her research with a federal official at poster session on Capitol Hill

Philadelphia

Ph.D. Attainment

Three Bridge to the Doctorate students have received their Ph.D. degree:

Dr. Quincy Brown, *Ph.D. Computer Science, Drexel University, August 2009 (BTD Cohort III)*: Dr. Brown was also a recipient of the Computing Innovation Postdoctoral Fellowship funded through the National Science Foundation. She completed her post doctoral work at the University of Maryland at College Park. Dr. Brown is currently serving as an Assistant Professor, Department of Computer Science at Bowie State University.

Dr. Yolanda Williams-Bey, *Ph.D., Biological Sciences, Drexel University, June 2010 (BTD Cohort III)*: Dr. Williams-Bey is currently a Postdoctoral Associate, National Institute of Allergy and Infectious Diseases (NIAID) and Intramural Research Training Award (IRTA) recipient at the National Institute of Health.

Dr. Marlyse Williams White, *M.S., University of Delaware, Ph.D. Agricultural Engineering, Pennsylvania State University, June 2010 (BTD Cohort I)*: Dr. White joined the U.S. Air Force in August 2009 in the Delayed Entry Program and graduated from Officer Training School.

International Experiences

Dannielle Solomon Figueroa, *Ph.D. Candidate, Biomedical Engineering, Drexel University (BTD Cohort III)* was selected to participate in the National Science Foundation East Asia and Pacific Summer Institute (EAPSI) 2010. Ms. Figueroa conducted research at Kaist, a soft biomechanics and biomaterials laboratory in South Korea for eight weeks from June to August 2010. Her research focused on basement membrane collagen orientation in response to stretch on native and glycated collagen. This research activity was funded by the NSF EAPSI program in conjunction with the Korean NRF Summer Institute and the Ministry of Education, Science and Technology.

Non Yok, *Ph.D. Candidate, Electrical Engineering, Drexel University* was selected to present his paper entitled "Benchmarking of Gene Prediction Programs for Metagenomic Data, (949)" at the 32nd Annual International

Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'10) held in Buenos Aires, Argentina from September 1-4, 2010.

Puerto Rico

Damaris Suazo-Cohort III BD Fellow - PR-LSAMP empowered students like Damaris Suazo Davila to complete a master degree and

pursue a PhD degree in a strong collaboration with NASA Ames Research Center. Damaris Suazo-Davila is working under the mentoring of Dr. Carlos Cabrera, director of the Center of Advanced Nanoscale Material, at the University of Puerto Rico Rio Piedras Campus. She had the opportunity to participate in undergraduate research in biochemistry area under the mentoring of Dr. Gabriel Barletta at the University of Puerto Rico – Humacao Campus. This previous participation encouraged Damaris to be part of the PR-LSAMP BD program.

All that she learned as a PR-LSAMP fellow gave her the experience, the knowledge and most importantly the character to become part of her new step, the Harriet Jenkins Predoctoral Fellowship Program. As a Jenkins Fellow, she is developing her Ph.D. research, Carbon Nanofiber Development for Cholesterol Oxidase Immobilization for Biosensor Application. She is not only part of a NASA Fellowship but also of collaboration with Dr. Meyya Meyyappan at NASA Ames Research Center. Her research is a progression of a previous template created by NASA.

Maria Ocacio-Cohort VI BD Fellow - After completing her B.Sc. in Coastal Marine Biology, María Ocasio-Torres received the Bridge to the Doctorate Program Fellowship from the Puerto Rico Louis Stokes Alliance for Minority Participation. The program provides extracurricular educational experiences through seminars, scientific conferences, internships and scientific field trips that help students to learn about interdisciplinary and transdisciplinary aspects of science, engineering and mathematics. Her graduate studies are focused on the effect of natural barriers and the presence of predatory fishes on the behavior, morphology, survival and abundance of the amphidromous shrimp Xiphocaris elongata. This species of shrimp is native to the Caribbean basin area and exhibits a long rostrum in streams where predatory fishes are present and a short rostrum in fishless streams.

Last year María applied for the National Science Foundation's Graduate Research Fellowship Program (GRFP). The GRFP awarded her a three year fellowship. The Graduate Research Fellowship Program will help María to complete her Ph.D. research on a five year period. The annual stipend will help her to focus entirely on her research and her outreach activities.

Ruth Hidalgo-Cohort V BD Fellow - Ruth G. Hidalgo-Hernández a former recipient of the Bridge-to-the-Doctorate Program Fellowship-Cohort V received her Master's degree in Mechanical Engineering at the University of

Puerto Rico-Mayaguez campus. The fellowship has not only provided her with financial support, but allowed her time to focus only on the research and obtain a degree. After concluding her degree as Master of Science in

Mechanical Engineering, she began working as Research Mechanical Engineer with the U.S. Army Corps of Engineers, specifically with the Engineer Research and Development Center (ERDC) - Geotechnical and Structures Laboratory (GSL) under the Concrete and Materials Branch, in Vicksburg, Mississippi. As a researcher, her support is focused in the improvements on all aspects of concrete and materials technology. Her mentors at the U.S. Army Corps-ERDC have encouraged her to continue her doctoral-level studies at Mississippi State University (MSU). Miss Hidalgo acknowledged that being part of the BD fellowship has had a big impact on her career, giving her more confidence and value to trace goals regardless the obstacles encountered in the path. Therefore she is eternally indebted to everyone who made this possible.

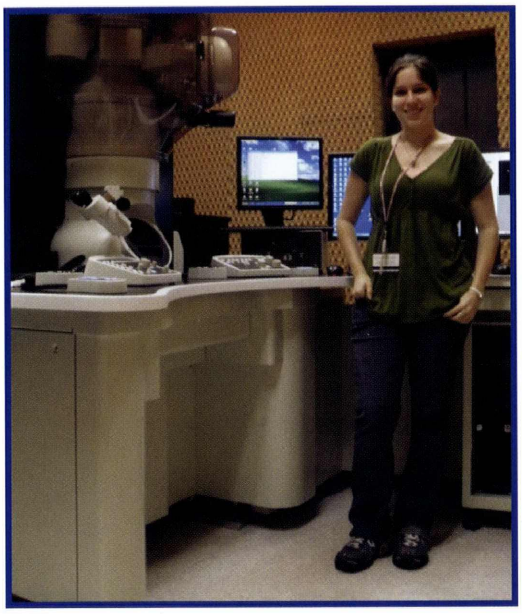
Kennett I. Rivero-Cohort VI BD Fellow - Former BDP Fellow and PhD student Kennett I. Rivero is part of the Structural Inorganic

Chemistry research group of Dr. Raphael G. Raptis at the University of Puerto Rico, Río Piedras Campus. During July 2010, Kennett I. Rivero was a visiting student in the Department of Chemistry of the University of Oxford (UK) with the purpose of taking a course entitled "Computational Methods in Inorganic Chemistry". During his internship, Kennett learned how to use Density Functional Theory methods to study the electronic structure of iron clusters and its related properties such as, magnetic exchange, vibrational frequencies, and spectroscopical parameters. The obtained results were compared with experimental ones to determine the reliability of the computational methods that were employed. The synergy between an experimental and a theoretical group was a great opportunity to exchange ideas and expertise with other young researchers in order to get new scientific insights.

Jennifer Carpena-Cohort VI BD Fellow - Jennifer Carpena Núñez is a PhD student in Chemical Physics and former PRLSAMP-BDP fellow. The program has provided her the opportunity to participate in two internship programs to obtain expertise in the area of In Situ Transmission Electron Microscope techniques for Materials Science.

During the spring of 2010, Jennifer Carpe-

na Núñez was able to participate in an internship at the University of Texas at San. The training's main component consisted of



alignment and aberration correction for the instrument. However, imaging and elemental analyses were also included in the program. During the training she also conducted high resolution imaging and elemental analyses, with a Scanning Electron Microscope, as well as high resolution imaging and diffraction, with a High Resolution Transmission Electron Microscope.

During the summer of 2010, she had the opportunity to be part of the Langley Aerospace Research Summer Scholars Internship Program at NASA's Langley Research Center. Ms. Carpena worked with a Transmission Electron Microscope-Atomic Force Microscope (TEM-AFM) specimen holder.

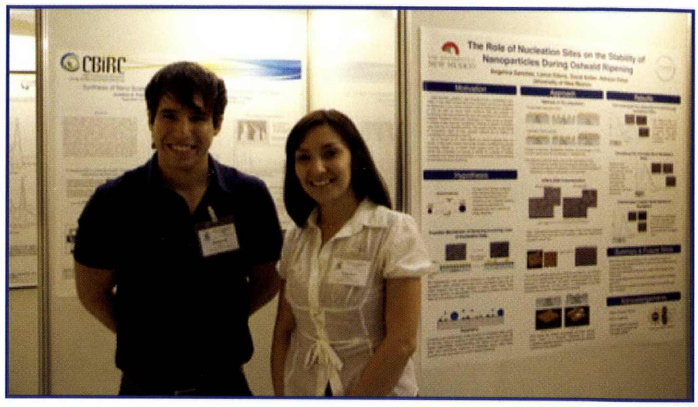
New Mexico

Three **Bridge to the Doctorate VI** students from the University of New Mexico (UNM) were awarded fellowships through the Graduate Research Fellowship Program (GRFP): **Brandi Cron, Angelica Sanchez, and Juanita Trevino**.

Brandi Cron, Earth and Planetary Science (EPS) major, earned the B.S. in Biology from UNM in 2008. Brandi's current area of study is geomicrobiology of springs in New Mexico. Angelica Sanchez is a Ph.D. candidate in Chemical/Engineering/Nanomaterials Science. Angelica earned the B.S. in Chemical Engineering from UNM in 2009. **Juanita Trevino** has a B.S. in Mechanical Engineering and is a Ph.D. candidate in Nanoscience/Microsystems.

Daniel Ramirez Gordillo (BD V) attended a short course at the Fifth International Meeting of the Latin American Society for Developmental Biology (LASDB) in Santiago, Chile from Nov. 11-15, 2010. The course, entitled "Concepts and Model Organisms in Regenerative Biology," was presented in theoretical and practical sessions, focusing on the regenerative abilities of model organisms. Expert researchers shared techniques they use with the model organisms of their areas of expertise. Some invited scientists were Brigitte Galliot, Richard Behringer, Panagiotis Tsonis, Katia del Rio-Tsonis, Alejandro Sanchez-Alvarado and Jose Garcia-Arraras.

Angelica Sanchez (BD VI) was awarded a fellowship from the Graduate Research Fellowship Program (GRFP) and presented her research entitled "The role of nucleation sites on the stability of nanoparticles during Ostwald ripening" at the Fifth San Luis Sympo-



sium on Surfaces, Interfaces, and Catalysis Conference in September, 2010 in San Paulo, Brazil with **Jon Paiz** (BD VIII). The event is the fifth in an April series of symposia targeted to unite Latin American ad U.S. scientists in the area of surface science. The symposium was organized by Univ. of California, Riverside and the Federal University of Sao Carlos, Brazil to foster new collaborations between researchers from the U.S., Latin America, and Europe for research in the chemistry of surfaces, with particular emphasis on heterogeneous catalysis.

Natasha Yazzie (BD VII) presented research via poster entitled, "Identification of thioester-containing proteins (TEPs) in the squid Euprymna scolopes" at the 22nd Annual POW-WOW 2010. The Euprymna scolopes-Vibrio fischeri Symbiosis Symposium at the Loyola University Medical Center in Marywood, IL on June 10-11, 2010. Ms. Yazzie traveled to Oahu, Hawaii from Nov. 18-25, 2010 to collect life specimens of the cephalopod Euprymna scolopes, the organism being used in her research.

Jesus Escobar (BD VII) placed first in the poster division for his presentation at the MAES/SACNAS Conference (Society of Mexican American Engineers and Scientists (MAES) and Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) in Anaheim, CA on September 30-October 2, 2010. The title of Mr. Escobar's poster was "Modeling and simulation for agricultural practices." Mr. Escobar also presented a poster at the HENAAC 200 Career Conference in Orlando, FL from Oct. 7-9, 2010.

Alabama LSAMP

Dr. Louis Dale
Principal Investigator

The Alabama LSAMP Bridge to the Doctorate 2010-2012 Program is a transitional program for students earning undergraduate degrees in science, technology, engineering and mathematics to doctoral programs in these areas. The program is located at The University of Alabama under the direction of Dr. Viola Acoff, Professor and Head, of the Department of Metallurgical & Materials Engineering.

Dr. Viola Acoff
Site Coordinator

Alabama LSAMP
Bridge to the Doctorate Students 2010 - 2012

James W. Anderson

B.S., Cellular Biology University of Georgia , 2010, *"Upon completion of my Ph.D., I plan to do biomedical research".*

Marcus Johnson

B.S., Chemistry Clarke Atlanta University, 2010 *"I plan to work in industry after which I will teach."*

Lyndon Smith, Jr.

B.S. Chemical Engineering Tuskegee University, 2010, *"Upon earning my Ph.D., I plan to pursue a career in industry."*

Cassandra Coleman

B.S. Biological Sciences University of Alabama, 2010, *"After I obtain my Ph.D., I plan to become a professor."*

Danuetta V. Jones

B.S. Biology Miles College, 2002, *"I plan to work in industry and start my own company."*

Shane Stanley

B.S. Biology Fayetteville State University, 2009, *"My career goal is to obtain my Ph.D. degree and to work in academia."*

Tarrell Ezell

B.S. Electrical Engineering Alabama A&M University, 2009, *"I plan to become a professor at an HBCU."*

Sharmeka Lewis

B.S. Biology Stillman College, 2001, *"I intend to utilize my Ph.D. to teach and do research in mycology."*

Derrick Stokes, Jr.

B.S. Physics Jackson State University, 2010, *"Once I have gained the proper experience, I plan to enter academia in order to serve as a mentor."*

Sharniece Holland

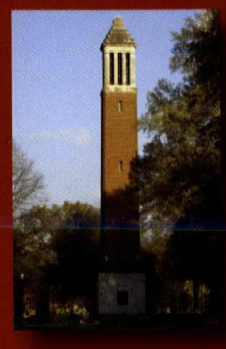
B.S. Mathematics Alabama State University, 2010, *"I plan to become a college professor at an HBCU."*

Julio Proano

B.S. Electrical Engineering New Jersey Institute of Technology, 2009 Engineering. *"I plan to conduct research, in industry or in academia."*

Erica Thompson

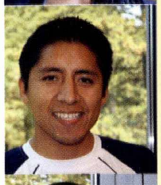
B.S. Biology University of Alabama, 2010, *"My goal is to work in a lab to alleviate the incidence of birth defects."*



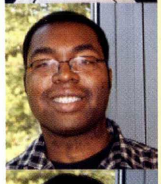
The University of Alabama (UA) is a major, comprehensive, student-centered research university founded in 1831 as Alabama's first public college. Dedicated to excellence in teaching, research and service, it provides a creative, nurturing campus environment where students can become the best individuals possible, learn from the best and brightest faculty, and make a positive difference in the community, the state and the world. Not only is UA the oldest public university in the State of Alabama but also, in 1837, UA became the first in the state to offer engineering classes. It was one of the first five in the nation to do so and one of the few to have maintained accreditation continuously since national accreditation began in 1936. The University of Alabama is the largest university in Alabama with an enrollment of 30,232, which includes 4,869 graduate students.

MARIA URIBE
- B.S. Applied Mathematics, UC Berkeley, 2010
- Graduate Program: Astronomy

MICHELLE ARMSTRONG
- B.S. Chemistry, UC Santa Cruz, 2009
- Graduate Program: Chemistry and Biochemistry



BRIAN LEON
- B.S. Chemistry, UC Irvine, 2008
- Graduate Program: Chemistry and Biochemistry



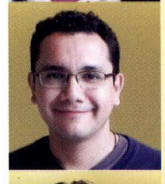
MICHAEL MCTHROW
- B.S. Computer Science, Cal Poly San Luis Obispo, 2009
- Graduate Program: Computer Science

JORDAN RUYBAL
- B.S. Marine Biology, UC Santa Cruz, 2008
- Graduate Program: Ecology and Evolutionary Biology

CHRISTOPHER TONI
- B.S. Applied Mathematics, Northeastern Illinois University, 2010
- Graduate Program: Mathematics

PRESTINA SMITH
- B.S. Biology, Bennett College for Women, 2010
- Graduate Program: Molecular, Cell and Developmental Biology

RUTH PAM TILUS
- B.S. Molecular Biology, Savannah State University, 2010
- Graduate Program: Molecular, Cell and Developmental Biology



JUAN CASTELLON
- B.S. Molecular Biology, San Jose State University, 2008
- Graduate Program: Microbiology and Environmental Toxicology

RICHARD CATHEY
- B.S. Molecular, Cell and Developmental Biology, 2010
- Graduate Program: Microbiology and Environmental Toxicology

UNIVERSITY OF CALIFORNIA
LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION

CAMP

Bridge to the Doctorate
Cohort VI ~ UC Santa Cruz

"By increasing the success in graduate school of historically underrepresented students, the Bridge to the Doctorate activity will help to create a vibrant intellectual community at UCSC and a campus-wide research environment that welcomes diverse approaches to scientific discovery. Students and faculty will engage in a focused agenda of intensive mentoring and professional development to prepare participants for a highly competitive doctoral environment and ultimately for careers in academia or in the technical workforce."

—Zia Isola, Ph.D., BD Co-Director; Associate Director of Diversity Programs at the Center for Biomolecular Science and Engineering

UC Santa Cruz opened in 1965 with 650 students. Forty-five years later, the campus is home to nearly 15,000 undergraduates and 1,500 graduate students. Achievements by UC Santa Cruz faculty and students have earned national and international recognition for the quality of research and teaching. George Blumenthal is UCSC's 10th chancellor. He joined the campus in 1972 as professor of astronomy and astrophysics. In a world of beavers, bears, and bobcats, UCSC is home to the mighty Banana Slug—which students voted in 1986 to adopt as the official campus mascot. The BD Fellows enjoy a welcoming campus and supportive environment in which to begin their doctoral studies. Strong commitment from the STEM deans and the Graduate Division provides the foundation for the BD design and implementation. The BD Steering Committee includes faculty mentors as well as deans and departments. UC Santa Cruz is proud to host the University of California Alliance's Cohort VI.

UCSC BD Leadership, from left:

SUE A. CARTER, PH.D., BD Principal Investigator; Associate Professor, Physics

ZIA ISOLA, PH.D., BD Co-Director; Associate Director of Diversity Programs at the Center for Biomolecular Science and Engineering

MALIKA BELL, M.S., BD Co-Director; Staff Director/Program Coordinator, CAMP, IMSD, MARC

Note: Two additional fellows will join the cohort in 2011.

CAMP STATEWIDE LEADERSHIP

MICHAEL V. DRAKE, M.D., Chancellor, UC Irvine, P.I.

DEREK DUNN-RANKIN, Ph.D., Professor and Chair, Mechanical and Aerospace Engineering, Co-Project Director

MARJORIE DEMARTINO, M.F.A., Co-Project Director

California LSAMP Partners—Nine University of California campuses: UC Berkeley, UC Davis, UC Irvine (lead campus), UC Los Angeles, UC Merced, UC Riverside, UC San Diego, UC Santa Barbara, UC Santa Cruz

www.california-lsamp.uci.edu

California State University LSAMP Program

CSU-LSAMP continues to find that the LSAMP BD model it has been able to develop with NSF support is an effective strategy for advancing the goal of increasing participation in STEM doctoral-level study. This model, which provides financial, academic and professional development support at the Masters level, has proven successful in recruiting, retaining, and advancing talented minority students who, otherwise, would be unlikely to pursue doctoral level study. To date, 102 students have participated in CSU-LSAMP BD activities, and we anticipate that most of these students will earn doctoral degrees in STEM disciplines. California State University, Los Angeles serves as the site of the 2010-2012 BD activity.

Juanita Barrena, Ph.D.
Professor, Biological Sciences
California State University, Sacramento
Lead Project Director, CSU-LSAMP
PI, CSU-LSAMP BD-8

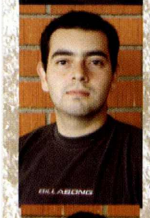
CSU-LSAMP Bridge to the Doctorate VIII
California State University, Los Angeles
Academic Year 2010-2011

Malerie Ayala
BS, Chemistry — UC Irvine
Current: Chemistry
Career Goal: *Upon obtaining my Ph.D. in synthetic organic chemistry, I wish to go into the biotechnological or pharmaceutical industry.*

Hansel Corsa
BS, Civil Engineering — San Jose State
Current: Civil Engineering
Career Goal: *I plan to pursue a doctorate degree in Environmental Engineering and continue research in renewable fuels.*

Maraliz Fischler-Barraza
BS, Molecular, Cell, & Developmental Biology
UC Santa Cruz
Current: Biology
Career Goal: *I will pursue a Ph.D. in physiology, focusing on mechanisms that regulate the response to injury and stress at the organ level.*

Luis Gonzalez
BS, Biology — Cal State, Los Angeles
Current: Biology
Career Goal: *I plan to pursue a doctorate degree in Biology with emphasis in immunology and continue research in pathogenic-host interaction.*



David Guzman
BS, Physics — Cal State, Los Angeles
Current: Physics
Career Goal: *After obtaining a doctorate degree in Solid State Physics, I plan on pursuing a faculty position at a University where I will continue with my research and theoretical work on Solid State Physics.*

Velveth Klee
BS, Physics — UC, Los Angeles
Current: Physics
Career Goal: *Upon completion of a Ph.D. in physics, my goal is to become a research scientist for a government agency, like NASA, or the Jet Propulsion Laboratory so that I can focus on material development and testing for flight and non-flight missions*

Bertha Martin
BS, Biology — Cal State, Los Angeles
Current: Biology
Career Goal: *My career goal is to obtain a degree that will take me into biomedical research with emphasis in Immunology. I also have inclination in biological sciences education.*

Blanca Moreno
BS, Chemistry — UC, Los Angeles
Current: Chemistry
Career Goal: *I wish to pursue a Ph.D. in Organic Chemistry. After completion of my doctorate, I plan to work as a researcher in the pharmacology industry or in a governmental laboratory.*

Elizabeth Partida
BS, Biological Science — UC Irvine
Current: Biology
Career Goal: *After obtaining a Doctorate degree in Neuroscience, I plan to contribute to the scientific community by investigating ways to improve the quality of life for people with spinal cord injuries.*

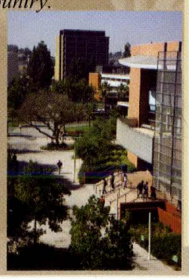
Jessica Ponce
BS, Biological Science — Cal State, Los Angeles
Current: Chemistry
Career Goal: *After receiving my Ph.D. in either Toxicology or Immunology and Infectious Diseases, I plan to conduct clinical research in an academic research hospital.*

Lizeth Ruvalcaba
BS, Chemistry — UC Irvine
Current: Chemistry
Career Goal: *My goal, after obtaining my Ph.D. in Biochemistry, is to teach and perform cancer research at a public university institution.*

Helen Sanchez
BS, Chemical Engineering — UC Irvine
Current: Environmental Science
Career Goal: *I will pursue a Ph.D. in Environmental Science & Engineering. I am interested in the area of fate and transport of pollutants in the environment and would like to do research in this area in a foreign developing country.*

California State University, Los Angeles

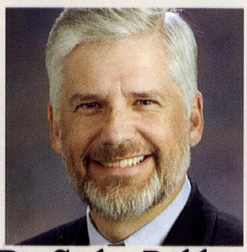
Southern California is home to the largest concentration of minority group members in the United States; California State University, Los Angeles serves large numbers of students from these communities. Cal State LA has been a minority institution for the past 35 years and has been a leader in the training of minority group members, notably in STEM disciplines. It is a federally designated Hispanic Serving Institution, and was the first four-year public university to qualify for full membership in the Hispanic Association of Colleges and Universities. The campus has been a part of CSU-LSAMP since its inception in 1994, and has served with distinction as the graduate institutional site for five of the CSU-LSAMP BD cohorts.



BD-VIII Coordinators at Cal State LA

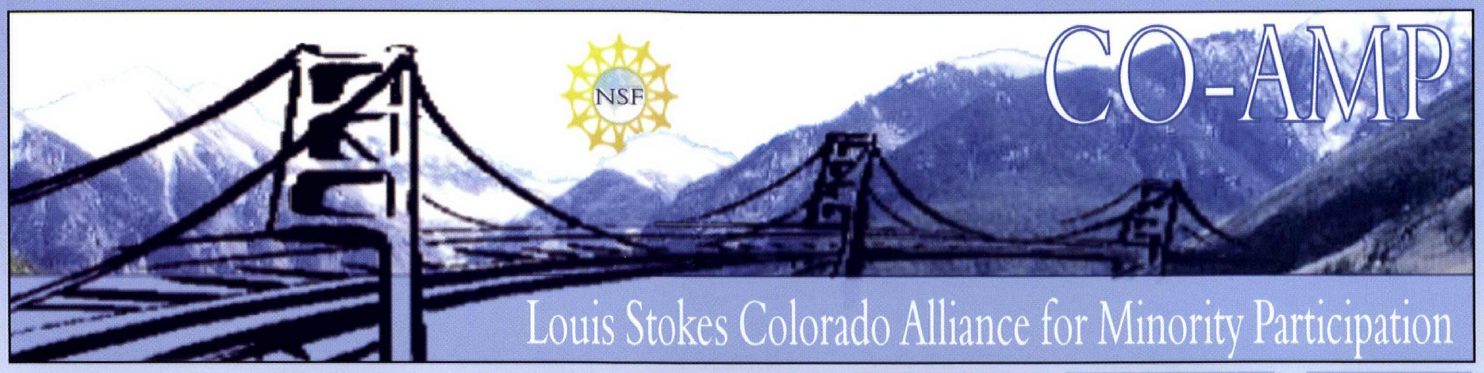
Dr. Carlos Gutierrez
Professor of Chemistry
BD-8 Lead Project Director
(323) 343-2356
cgutier@calstatela.edu

Dr. Margaret Jefferson
Professor of Genetics
BD-8 Associate Project Director
(323) 343-2059
mjeffer@calstatela.edu



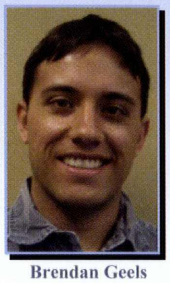
Dr. Carlos Robles
Professor of Biology
BD-8 Associate Project Director
(323) 343-2067
crobles@calstatela.edu

Colorado School of Mines

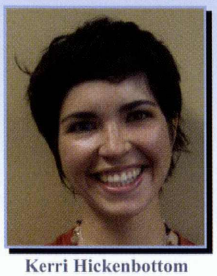


Daniel Cano
Engineering Systems
BS 2010
Electrical Engineering
Colorado School of Mines

Andrea Casias
Metallurgical & Materials Engineering
BS 2010
Metallurgical & Materials Engineering
Colorado School of Mines



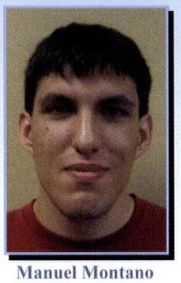
Brendan Geels
Engineering Systems
BS 2010
Mechanical Engineering
New Mexico Tech



Kerri Hickenbottom
Environmental Science and Engineering
BS 2010
Civil Engineering
University of Nevada - Reno

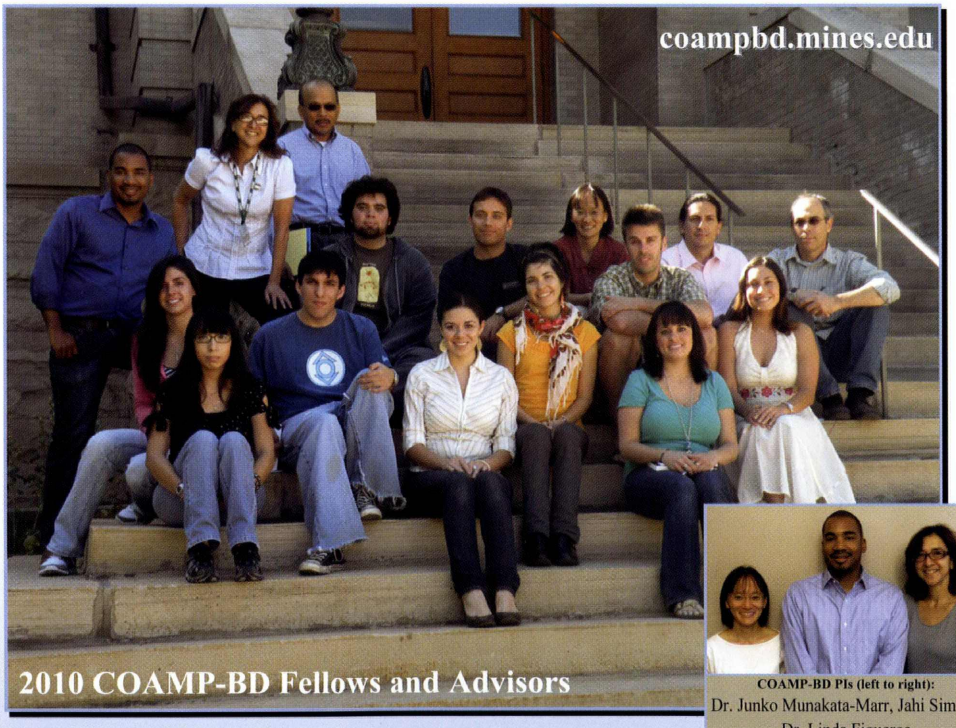
Stephanie LaCrue
Civil Engineering
BS 2010
Civil Engineering
Colorado School of Mines

Susana Macias
Environmental Science and Engineering
BS 2010
Environmental Engineering
University of Colorado Boulder



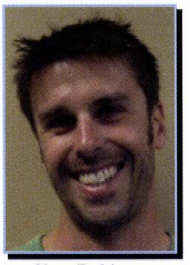
Manuel Montano
Chemistry
BS 2010
Chemistry
Colorado School of Mines

Margarite Parker
Mechanical Engineering
BS 2010
Chemical Engineering
University of Colorado Boulder

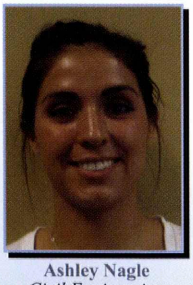


2010 COAMP-BD Fellows and Advisors

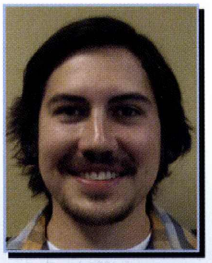
COAMP-BD PIs (left to right):
Dr. Junko Munakata-Marr, Jahi Simbai, Dr. Linda Figueroa



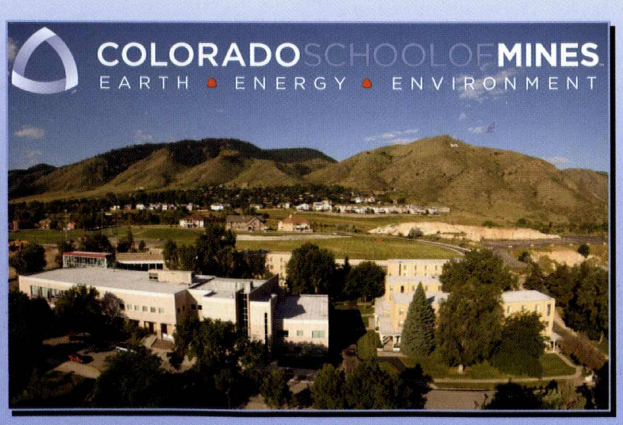
Shay Robinson
Mechanical Engineering
BS 2010
Engineering Physics
Colorado School of Mines



Ashley Nagle
Civil Engineering
BS 2010
Civil Engineering
Colorado School of Mines



David Walter
Nuclear Engineering
BS 2010
Engineering Physics
Colorado School of Mines



Colorado School of Mines, located in Golden, CO, is a public research university devoted to engineering and applied science. CSM has distinguished itself by developing a curriculum and research program geared towards responsible stewardship of the earth and its resources. In addition to strong education and research programs in traditional fields of science and engineering, CSM is one of a very few institutions in the world having broad expertise in resource exploration, extraction, production and utilization. CSM, founded in 1874, offers all the advantages of a world-class research institution with a size that allows for personal attention.

Research and education at CSM are founded on the conviction that future infrastructural and societal developments are dependent upon the availability of energy, the sustainable development of the Earth's resources, and the environmental consequences of these processes and their interactions. At CSM, we believe these inherently related focus areas represent not only extraordinarily fertile ground for institutional advancement, but they also embrace our responsibility to attract, shape and provide engineering and scientific talent to help address the world's technological and societal challenges.

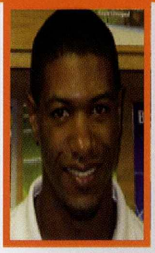
The Bridge to the Doctorate Program at the University of Florida

Michelle Adejumo
Department:
Civil and Coastal Engineering

michelleade2006@yahoo.com

Research Interest:
Transportation Systems

Degree(s) Earned: BS
Civil Engineering



Chris Alexander
Department:
Civil Engineering

calexander@ufl.edu

Research Interest:
Geotechnical

Degree(s) Earned: BS
Civil Engineering

Shiree Hughes
Department:
Computer Science Engineering

shireenhughes@ufl.edu

Research Interest:
Computer Graphics

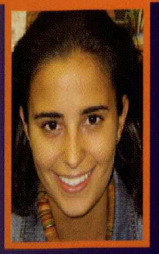
Degree(s) Earned: BS
Mathematical Science

Veronica Llaneza
Department:
Environmental Engineering

[redacted]

Research Interest:
Arsenic Remediation

Degree(s) Earned: BS
Environmental Engineering

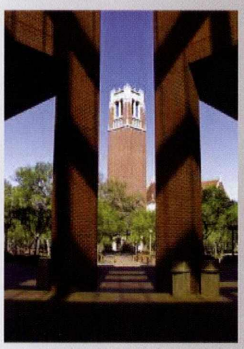


Adwoa Baah-Dwomoh
Department:
Material Science Engineering

abaahdwomoh@ufl.edu

Research Interest:
Biomaterials

Degree(s) Earned: BS



The **University of Florida** is one of the premier institutions within the State of Florida University System. This places among the nation's leading institutions of higher education and provides extraordinary opportunities for students to engage in graduate research. The Graduate School offers more than 240 graduate programs. There are over 16 colleges and more than 100 interdisciplinary research centers, bureaus and institutes administered and managed by the university.

The support activities provided to the Bridge to the Doctorate students include:

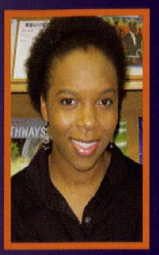
- Stipend of $30, 000 per year for two years, plus $10, 500 per year for two years to cover tuition cost
- Seminars to enhance the academic preparations
- Mentoring workshops conducted by professional mentors and peers
- Peer networking events
- Opportunity to travel to national and regional conferences

Jeremy Magruder
Department:
Civil Engineering

jeremyalexis@gmail.com

Research Interest:
Concrete materials

Degree(s) Earned: BS
Civil Engineering



Natalia Diaz
Department:
Biochemistry, Molecular Biology

diaznatalia89@ufl.edu

Research Interest:
Biochemistry, Molecular Biology

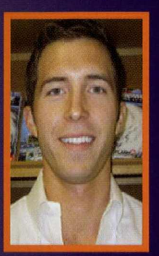
Degree(s) Earned: BS
Chemistry

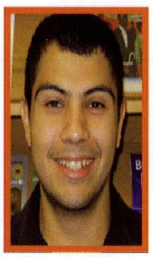
Ricardo Valladares
Department:
Microbiology

rico288@ufl.edu

Research Interest:
Bacterial Enzymology

Degree(s) Earned: BS
Biology





Jorge Medina
Department:
Chemistry

jorge.medina@ufl.edu

Research Interest:
Coherent Quantum Control

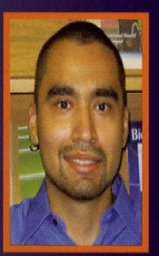
Degree(s) Earned: BS
Physics

Omar Saucedo
Department:
Materials Science Engineering

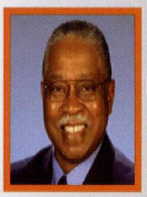
saucedo.omar@yahoo.com

Research Interest:
Biomaterials

Degree(s) Earned: BS
Materials Science Engineering

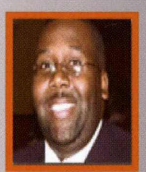


Program Contact Information:



Co-PI:
Henry T. Frierson
hfrierson@ufl.edu
352-392-6444

BD Director:
Laurence Alexander
alexander@ufl.edu
352-392-6444



BD Coordinator:
Earl J. Wade
ewade@ufl.edu
352-392-6444

Miguel Lugo
Department:
Civil and Coastal Engineering

m.lugo@ufl.edu

Research Interest:
Transportation Planning

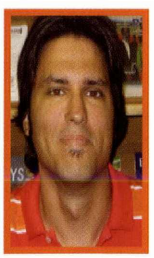
Degree(s) Earned: BS
Civil Engineering

Christian Noack
Department:
Mathematics

cnoack1@ufl.edu

Research Interest:
Real/Functional Analysis

Degree(s) Earned: BA, BS
Mathematics, Economics



Ismael Sarmiento
Department:
Computer Science Engineering

sarmientoismael@ufl.edu

Research Interest:
Algorithms and theory

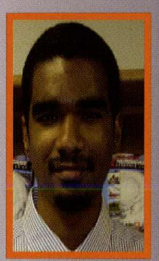
Degree(s) Earned: BS
Computer Sciences

Marina Scotti
Department:
Molecular Biology and Microbiology

because@ufl.edu

Research Interest:
RNA Processing

Degree(s) Earned: BS
Chemistry, Microbiology/Cell



Blayne Phillips
Department:
Chemical Engineering

blyne.m.p@gmail.com

Research Interest:
Solar Cell Efficiency

Degree(s) Earned: BS
Chemical Engineering

Sabrina Parra
Department:
Civil and Coastal Engineering

sabrimar@ufl.edu

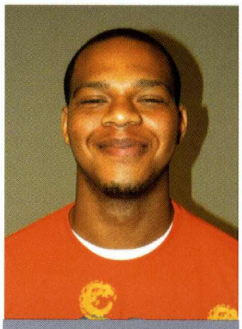
Research Interest:
Estuarine Coast. Engineering

Degree(s) Earned: BS
Civil Engineering

Mississippi - Cohort 8
LSAMP
Bridge to the Doctorate Program
at Jackson State University

Dr. Abdul K. A. Mohamed, Project Director
Dean Emeritus, College of Science, Engineering & Technology,
P.O. Box 18119, Jackson, MS 39217 - 601-979-1604 : abdul.k.mohamed@jsums.edu

Torquise Alexander
Fort Valley State University
Biology



Ravin Byrd
Mississippi Valley State University
Biology

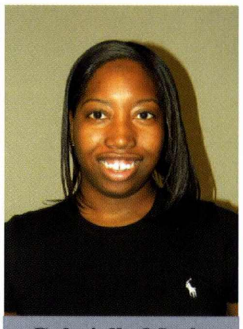
Haleigh Eubanks
Mississippi Valley State University
Biology

Jamila Grigsby
Jackson State University
Biology

Sakeli Hall
Tougaloo College
Biology

Antoineicka Harris
Jackson State University
Biology

Gerald Lovett
Jackson State University
Computer Eng.



Gabrielle Meeks
Mississippi Valley State University
Computer Science

Antrice Walker
Tougaloo College
Biology

Sharnek Walker
Fort Valley State University
Chemistry

Marquita Watkins
Tougaloo College
Chemistry

Takia Wheat
Jackson State University
Chemistry

JSU is the State of Mississippi's only urban, comprehensive institution and is designated as "doctoral/research intensive" by the Carnegie Foundation. It offers doctorate degrees in ten disciplines. JSU ranks No. 2 in the acquisition of federally funded research dollars and in awarding doctoral degrees among research-intensive historically black colleges and universities. Jackson State ranks No. 7 among all institutions in awarding doctorates to African Americans.

The LSMAMP Program is funded through grants from the National Science Foundation # HRD-0602740

THE UNIVERSITY of NEW MEXICO

NEW MEXICO AMP BRIDGE to the DOCTORATE VIII

"The Bridge to the Doctorate program has brought to New Mexican students an additional pathway to advance to the Ph.D. With eight cohorts in New Mexico, the program has broadened the participation of underrepresented groups throughout the state. Enhancing the synergy between research and education, the Bridge to the Doctorate program continues to broaden the scope of education opportunites across the state."

Dr. Wendy Wilkins
Executive Vice President & Provost
New Mexico State University

Principal Investigator of the New Mexcio Bridge to the Doctorate Program

BD Coordinator at UNM:

Laura J. Crossey, P.h. D., Professor

Department of Earth and Planetary Sciences

University of New Mexico
MSC 032040
Albuquerque, NM 87131

lcrossey@unm.edu
505.277.5349

Aaron Allen
B.S., Physics/Math, Clemson Univ., 2010. *Grad. Major:* Physics. *Career Goal:* Researcher in quantum information science and optics.

Kacey Cubine
B.S., Civil Engineering, NMSU, 2006. *Grad. Major:* Civil Engineering. *Career Goal:* Work as civil engineer to improve infrastructure in underdeveloped areas; to do research and teach.

Julian Davis
B.S., Biology, UNM, 2010. *Grad. Major:* Biology. *Career Goal:* Professor and researcher; plans to continue research on Anolis.

Abdou Harris Nassam
B.S., Civil Engineering, University of Minnesota, 2009. *Grad. Major:* Civil Engineering. *Career Goal:* Professor of science or engineering.

Alex Nereson
B.S., Earth & Planetary Science, Macalester College, 2010. *Grad. Major:* Earth & Planetary Science. *Career Goal:* A career in a federal government agency, with a focus on influencing public policy.

Jonathan Paiz
B.S., Chemical Engineering, UNM, 2009. *Grad. Major:* Chemical Engineering. *Career Goal:* Researcher in the field of heterogeneous catalysis, with an emphasis on bio-renewable chemicals.

Mario Paz
B.S., Mechanical Engineering, UNM, 2006. *Grad. Major:* NanoBiology. *Career Goal:* To gain a post-doctoral appointment with the Center of Disease Control or one of the National Centers for System Biology.

Ben Real
B.S., Physics, UNM, 2009. *Grad. Major:* Mechanical Engineering. *Career Goal:* Research career in nano composites & advanced manufacturing of composite materials.

Antonio Rivera
B.S., Physics, UNM, 2010. *Grad. Major:* Nanoscience/ Microsystems. *Career Goal:* Professor and researcher in nanotechnology.

Matt Rush
B.S., Mechanical Engineering, NM Tech., 2009. *Grad. Major:* Nanoscience/ Microsystems. *Career Goal:* Researcher, with a focus on mesenchymal stem cell differentiation into osteoblastic tissue.

Jeffrey Samson
Non-traditional, Civil Engineering UNM, 2010. *Grad. Major:* Civil Engineering. *Career Goal:* Professor & researcher, with a specialization in water resources engineering & ecohydrological issues.

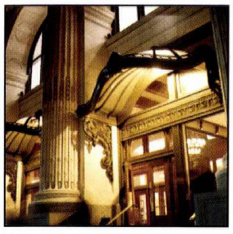
April Tafoya
Environmental Science, UNM, 2010. *Grad. Major:* Environmental Science. *Career Goal:* Professor and researcher.

The University of New Mexico (UNM)

Partner Institution in New Mexico Alliance for Minority Participation (New Mexico AMP)

UNM was founded in 1889 and currently occupies 600 acres along old Route 66 in the heart of Albuquerque, a city of more than 700,000 people. From the magnificent mesas to the west, past the banks of the historic Rio Grande to the Sandia Mountains to the east, Albuquerque is a blend of culture, styles and stories, people, pursuits, and panoramas. Offering a distinctive campus environment with a Pueblo Revival architectural theme, the campus echoes the buildings of nearby Pueblo Indian villages. The University is the state's flagship research institution. UNM research injects millions of dollars into New Mexico's economy, funds new advancements in healthcare, and augments teaching, giving students valuable hands-on training in state-of-the art laboratories. In 2009, UNM had an enrollment of over 35,000 students. Offering more than 210 degree and certificate programs, UNM has 94 bachelor's, 74 master's and 40 doctoral programs. UNM was the only New Mexico university to be ranked among the top 25 colleges and universities for Latinos by Hispanic Magazine, and the College of Engineering was ranked fourth.

New York City Alliance



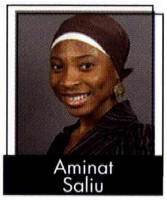
A unique and distinguished intellectual partnership, The Graduate Center is the doctorate-granting institution for The City University of New York (CUNY). Here, 4,000 students and 1,600 faculty join in the shared enterprise of exploring and expanding the boundaries of knowledge within 32 doctoral programs in the humanities, social sciences and sciences.

Bridge to the Doctorate Coordinator - Claude Brathwaite - 212-650-8850 • cbrathwaite@ccny.cuny.edu

Dr. Neville Parker, NYC LSAMP PI,
City College • 138th & Convent Ave., Marshak J14, NY, NY 10031
212-650-8854
ampcc@ccny.cuny.edu

"The Bridge to the Doctorate program will provide the necessary incentive to enable the New York City LSAMP program to build the critical mass needed to remain catalytic, recruiting and retaining top LSAMP Research Scholar graduates to pursue graduate studies through to completion of the Ph.D."

There are more than forty (40) chartered CUNY Institutes or Centers conducting STEM research, with six (6) led by minority faculty members. Bridge to the Doctorate participants will, benefit from a rich research environment with superb training facilities, access to distinguished research-active STEM faculty, and opportunities to conduct research at Brookhaven National Labs.

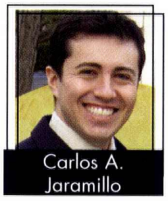


Aminat Saliu

B.S. Biology
Delaware State University '09

Graduate Major: Neuroscience

Career Goal: To become a Physician/Scientist

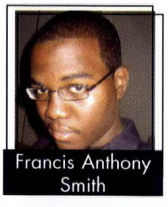


Carlos A. Jaramillo

B.E. Computer Engineering
City College '10

Graduate Major: Computer Science

Career Goal: Scientific and Academic Research in Computer Vision

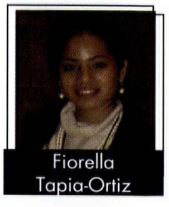


Francis Anthony Smith

B.E. Electrical Engineering
City College '10

Graduate Major: Electrical Engineering

Career Goal: Research Scientist/Systems Engineer



Fiorella Tapia-Ortiz

B.S. Biology
Queens College '09

Graduate Major: Biology

Career Goal: I would like to teach in an academic setting, while continue to do research. Preferably, become a primary investigator.

Samsiya Ona

B.S. Biology
Lehman College '11

Graduate Major: Biology

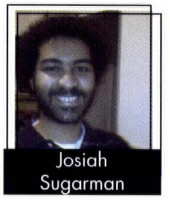
Career Goal: My ultimate goal is to become a physician researcher by earning my MD/PhD and specializing in infectious diseases research.

Hilda Crispin

B.A. Biology and Anthropology
Lehman College '10

Graduate Major: Biology

Career Goal: To obtain a Ph.D. in the biological and biomedical sciences.

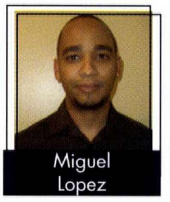


Josiah Sugarman

B.S. Mathematics
Queens College '10

Graduate Major: Mathematics

Career Goal: I plan to obtain my PhD. and become a professor of mathematics.

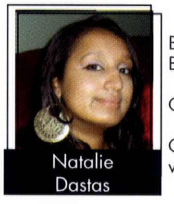


Miguel Lopez

B.E. Computer Engineering
SUNY Stonybrook '10

Graduate Major: Electrical Engineering

Career Goal: To obtain a Ph.D. in Electrical Engineering, and to unltimately become a professor.

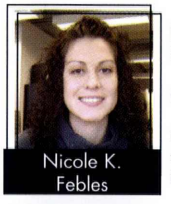


Natalie Dastas

B.S. Geology, B.A. Earth Science Education
Brooklyn College '10

Graduate Major: Geology

Career Goal: Continuing research in multiple sub-areas of geology which will lead to a PhD in a specified field

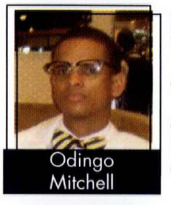


Nicole K. Febles

B.E. Biomedical Engineering
City College '10

Graduate Major: Biomedical Engineering

Career Goal: Pursing a doctoral degree in biomedical engineering which will enable me to further advance technologies that will have a significant impact on clinical medicine

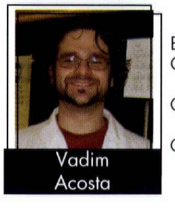


Odingo Mitchell

B.S. Physics and Mathematics
York College '10

Graduate Major: Physics

Career Goal: To enhance the scientific community with novel innovations in the field of Nuclear Magnetic Resonance (NMR). In the process I will earn a PhD in Physics.



Vadim Acosta

B.S. Geology
Queens College '08

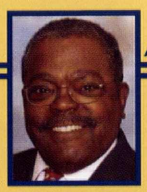
Graduate Major: Environmental Science

Career Goal: To become a research scientist.

GREATER PHILADELPHIA REGION LSAMP

BRIDGE TO THE DOCTORATE PROGRAM PARTICIPANTS

The Bridge to the Doctorate program has created a new paradigm in the Greater Philadelphia Region Alliance by developing new pathways for students to complete graduate and terminal degrees in the STEM disciplines. The participating partner institutions have facilitated these transitions by developing research relationships across the Alliance and curriculum alignment which has established increased opportunities for all of our intending graduate fellows. Undergraduate research continues to be the mechanism, and graduate study and terminal degree completion are the goal.

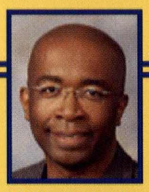


Alliance Director

Stephen R. Cox, M.S.
Co-PI, Project Director
Philadelphia AMP / Drexel University
3141 Chestnut St., Bldg 1, Rm. 303
Philadelphia, PA 19104
215-895-6835 | srcox@drexel.edu
Research Area: Biophysics & Biomedical Engineering

BD Site Coordinator

Marisol Rodriguez Mergenthal, M.B.A.
Drexel AMP Director
Drexel University
3210 Chestnut Street
Creese Student Center, Suite 050
Philadelphia, PA 19104
215-895-1641 | mr444@drexel.edu



BD Research Director

Chikaodinaka Nwankpa, Ph.D.
Professor and Director
Center for Electric Power Engineering
Drexel University
Bossone Research Bldg, Rm 313
3120 Market Street
Philadelphia, PA 19104
215-895-2218 | nwankpa@ece.drexel.edu
Research Area: Power Systems

BD Technical Training & Academic Advisor

Teck-Kah Lim, Ph.D.
Professor of Physics and Associate Vice Provost for Graduate Studies
Drexel University
3141 Chestnut St., Randell Hall, Rm 240
Philadelphia, PA 19104
215-895-1670 | limtk@drexel.edu
Research Area: Mathematical Physics

Jonathan Campos
BS, Chemical Engineering
University of Oklahoma, 2010
Graduate Major: Chemical Engineering
Career Goal: Ph.D. in Chemical Engineering

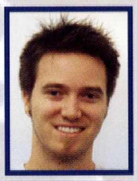
Ezekiel Crenshaw
BA, Biology
Cheyney University, 2010
Graduate Major: Biological Sciences
Career Goal: Ph.D. in Biological Sciences

Jefferson Cuadra
BS, Mechanical Engineering
New Jersey Institute of Technology, 2010
Graduate Major: Mechanical Engineering
Career Goal: Ph.D. in Mechanical Engineering

David Diaz
BS, Biomedical Engineering
New Jersey Institute of Technology, 2010
Graduate Major: Biomedical Engineering
Career Goal: Ph.D. in Biomedical Engineering

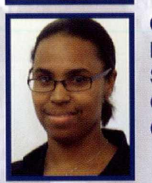
Rodrick Evangelist
BS, Civil Engineering
North Carolina A & T, 2010
Graduate Major: Civil Engineering
Career Goal: Ph.D. in Civil Engineering

David Gonzalez
BS, Electrical and Computer Engineering
Drexel University, 2010
Graduate Major: Electrical Engineering
Career Goal: Ph.D. in Electrical Engineering



Walter Hinds
BS, Biological Engineering
Cornell University, 2010
Graduate Major: Biomedical Engineering
Career Goal: Ph.D. in Biomedical Engineering

Joan Kibaara
BS, Actuarial Science / Computer Science
Lincoln University, 2009
Graduate Major: Computer Science
Career Goal: Ph.D. in Computer Science



Camilla Nix
BS, Biomedical Engineering
Syracuse University, 2010
Graduate Major: Biomedical Engineering
Career Goal: Ph.D. in Biomedical Engineering

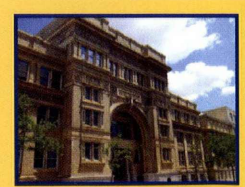
Aniel Padrino
BS, Mechanical Engineering
New Jersey Institute of Technology, 2010
Graduate Major: Mechanical Engineering
Career Goal: Ph.D. in Mechanical Engineering

Andrea Partridge
BS, Biological Sciences
Drexel University, 2008
Graduate Major: Microbiology & Immunology
Career Goal: Ph.D. in Microbiology & Immunology

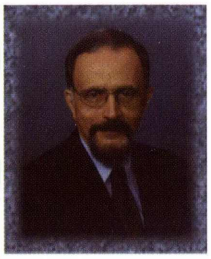
Ryan Rebozo
BS, Ecology and Natural Resources
Rutgers University, 2010
Graduate Major: Environmental Science
Career Goal: Ph.D. in Environmental Science

Drexel UNIVERSITY

Drexel University, a private, nonsectarian coeducational university, has maintained a reputation for academic excellence since its founding in 1891. The University offers over 190 degree programs to over 13,400 undergraduate and 7,500 graduate students making it the 20th largest private university in the nation. Drexel is home to one of the nation's oldest and most established experiential education programs, Drexel Co-op: "The Ultimate Internship," and is one of the few than 50 private universities classified by the Carnegie Foundation as Doctoral/Research-Extensive.



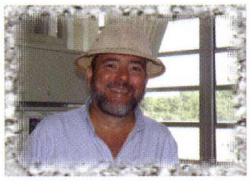
Louis Stokes Alliance for Minority Participation
Cohort VIII Bridge to the Doctorate Fellows



"The Bridge to the Doctorate Program has made significant contributions to the preparation of the next generation of STEM professionals in Puerto Rico and US Mainland. This program provides a multidisciplinary education with emphasis in nano and environmental sciences, thus increasing the nation's pool of well prepared scientists with diverse views. Cohort VIII contributes twelve additional fellows to the community of 82 that have already received the PR-BD Fellowship."

Dr. Manuel Gomez, PI and Dr. Ana Rita Mayol, Co-PI

Bridge-to-the-Doctorate Coordinator



Prof. Javier Figueroa is the Assistant Coordinator of the PR-LSAMP Program and the BDP Coordinator. His field of specialization is Biology and Ecology. He has conducted research in Population Biology, biogeographical distribution and systematics of the Order Odonata in neotropical environments with emphasis in the Greater Antilles.

Address:
UPR Resource Center for Science and Engineering
P.O. Box 23334; San Juan, Puerto Rico 00931-3334
Tel. (787) 765-5170, ext. 2012; FAX (787) 766-1293
E-mail: j_figueroa@prlsamp.org

Wilfredo Falcon
Undergraduate Institution: UPR-Humacao
BS Degree in Biology/Wild Life (2010)
Graduate Major: Ecology & Systematics
Career Goal: Obtain a PhD in Conservation Genetics, pursue a career as a researcher and in the academia focusing in my area but promoting interdisciplinary approaches.

Camille Garcia
Undergraduate Institution: UPR-Humacao
BS Degree in Physics (2010)
Graduate Major: Chemical-Physics
Career Goal: Obtain a Ph.D. in Chemical-Physics and pursue a research career in a prestigious institution.

Jose A. Rivera
Undergraduate Institution: UPR-Bayamon
BS Degree in Biology (2007)
Graduate Major: Ecology
Career Goal: Complete a Ph.D. in Urban Ecology working either in terrestrial or stream environments. I would like to work in the academia but also doing research.

Jaime Calzada
Undergraduate Institution: UPR-Rio Piedras
BS Degree in Physics (2010)
Graduate Major: Physics
Career Goal: Work in the research & development industry as well as in the academia focusing in the area of fundamental field theories and technology development.

Shakira Quiñones
Undergraduate Institution: UPR-Rio Piedras
BS Degree in General Science (2010)
Graduate Major: Biology
Career Goal: Obtain my Ph.D. and become a professor/researcher studying the interactions between marine mammals population and coastal tourism development.

Angelica Erazo
Undergraduate Institution: UPR-Rio Piedras
BS Degree in Environmental Science (2010)
Graduate Major: Environmental Science
Career Goal: Obtain my Ph.D. and work in research focusing in rural water systems and the use of slow sand filters to improve water quality.

Edgardo M. Colon
Undergraduate Institution: UPR-Aguadilla
BS Degree in Biology (2010)
Graduate Major: Molecular Biology
Career Goal: Obtain my Ph.D and possibly a Post Doc in Europe; become a college professor able to offer courses in diverse science fields; create my business related to

Christian Morales
Undergraduate Institution: UPR-Rio Piedras
BS Degree in Chemistry (2010)
Graduate Major: Biochemistry
Career Goal: Obtain a Ph.D. to become a professor and a researcher in the area of bio-organic chemistry and nanotechnology.

Marietta Marcano
Undergraduate Institution: UPR-Mayaguez
BS Degree in Mechanical Engineering (2010)
Graduate Major: Environmental Engineering
Career Goal: Obtain PhD in the area of Environmental Eng and pursue a career in research focusing in the study and development of titanium silicates nanoporus sorbents

Vivianette Alicea
Undergraduate Institution: UPR-Arecibo
BS Degree in Chemistry (2010)
Graduate Major: Biochemistry
Career Goal: Obtain a PhD in Biochemistry with the objective of becoming a professor and a researcher in this field.

Jose I. Lopez
Undergraduate Institution: UPR-Rio Piedras
BS Degree in Physics (2010)
Graduate Major: Chemical-Physics
Career Goal: Obtain a Ph.D. and become a researcher in the area of Photovoltaics and Ligh Harvesting. Be able to create/design educational materials to promote an effective learning process to better understand the use of nanomaterial concepts, principles and methods.

Roberto Martinez
Undergraduate Institution: UPR-Cayey
BS Degree in Chemistry (2009)
Graduate Major: Analytical Chemistry
Career Goal: Obtain my Ph.D. and become a researcher in the industry focusing in developing technology that contributes to the environment and obtaining ways to maximize the efficiency of this technology.

The University of Puerto Rico is the flagship institution of higher education in the island; the major producer of Hispanic STEM baccalaureate degrees in the U.S., and the main source of Hispanic PhD's in science and Engineering. The College of Natural Sciences at UPR Rio Piedras offers Bachelor's degrees in Biology, Chemistry, Computer Science, Environmental Sciences, General Sciences, Mathematics, and Physics; Master's degrees in Biology, Mathematics, Physics and Chemistry and PhD degrees in Biology, Chemical Physics, Chemistry, Computer Science and Mathematics. UPR School of Engineering is the main and largest school of engineering in Puerto Rico, and ranks 13th in undergraduate enrollment among universities in the U.S.; 18th in the number of undergraduate degrees awarded, and 3rd in the number of degrees awarded to women. Thirty five percent of the Engineering majors are women.

UBBD
University at Buffalo
Bridge to the Doctorate Program

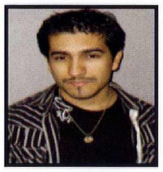
University at Buffalo (UB), State University of New York (SUNY)
Louis Stokes Alliance for Minority Participation (LSAMP)
Bridge to the Doctorate Program (BD)

The second cohort of SUNY LSAMP Bridge to the Doctorate program was launched at the University at Buffalo and has:

- *Increased the visibility of SUNY LSAMP, especially with graduate STEM departments*
- *Provided a way to enroll new, talented, and academically strong LSAMP students into STEM graduate programs*
- *Provided new opportunities for LSAMP and AGEP to work together to bring more LSAMP undergraduates into the STEM doctoral pool*

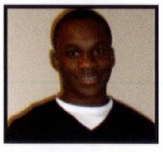
2010 UB Bridge to the Doctorate Fellows

(Undergraduate Degree/Major; Undergraduate Institution; career goal):



Andres Alzate
BS, Civil engineering
University at Buffalo
Consultant/Professor

Alecia Bernard
BS, Chemical Engineering
University at Buffalo
Research

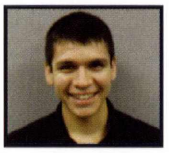


Oswald Dadson
BS, Pharmacology and Toxicology
University at Buffalo
Research

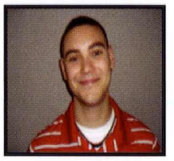
Robert Namulala
BS, Biophysics
University at Buffalo
Research Professor

Buay Nhial
BS, Mechanical Engineering
University at Buffalo
Research

Bethany Rankin
BS, Chemistry
Tougaloo College
Research

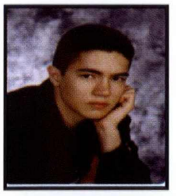


Beynan Ransom
BS, Chemical Engineering
Syracuse University
Environmental Research



Nicholas Torres
BS, Computer Science
University at Buffalo
Research

Brittany Peoples
BS, Forensic Chemistry and Criminal Justice
Buffalo State College
Research/Professor



Jonathan Rivera
BS, Civil Engineering
University at Buffalo
Research

The University at Buffalo is the largest and most comprehensive research-intensive university center in the State University of New York (SUNY) system and the first public university in New York to be admitted (in 1990) to the Association of American Universities (AAU). UB is a leader and innovator and our work in education, research and service is guided by our mission to improve the quality of life for the people of our region and to the world at large.

Our strengths in medicine, engineering and computer science enable us to conduct multidisciplinary research and provide education at a level of excellence that few universities can match. The faculty of UB's professional schools share an unusually strong research orientation with their counterparts in the arts and sciences and together they have established an outstanding record of research, scholarship and creative activity. UB is at the heart of the Buffalo Niagara region, nourishing and enriching the community, helping to turn it into a thriving hub of activity and growth.

Dr. David L. Ferguson
Project Director
SUNY LSAMP

Dr. Letitia Thomas
Site Coordinator
UB Bridge to the Doctorate

UB Bridge to the Doctorate
255 Capen Hall
University at Buffalo
Buffalo, New York 14260-1603
716-645-7301

LSA&MP Louis Stokes Alliance for Minority Participation

THE TEXAS A&M UNIVERSITY SYSTEM

LSAMP LEADERSHIP
Dr. Karan L. Watson (PI)
Dr. Karen Butler-Purry (Co-PI)
Dr. Kendall Harris (Co-PI)
Dr. Frank Pezold (Co-PI)

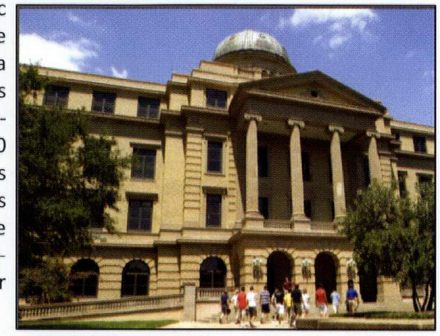
Dr. Karan L. Watson - Principal Investigator (watson@tamu.edu)
Provost and Executive Vice President for Academic Affairs, Texas A&M University

"Excellence, leadership and diversity are goals common to the Texas A&M university mission and to the Bridge to the Doctorate Program. The program makes it possible for its fellows to be active participants, rather than observers, in the community of graduate students, academics and professionals at TAMU, and in their fields. By permitting fellows to dedicate themselves to their academics and research without subsistence distractions, and elevating their status with their advisors, as a result of their selection for an NSF-funded fellowship, the program provides support which enables and motivates persistence, degree for leadership, in academic and in industry."

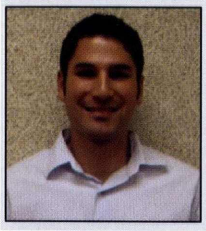
Dr. Shannon D. Walton
Associate Director
218 Wisenbaker (WERC)
3405 TAMU
College Station, TX 77843-3405
Interdisciplinary Engineering
Engineering Education
(shannon@tamu.edu)
(979) 862-4315

http://www.tamuslsamp.org/btd

From humble beginnings in 1876 as Texas' first public institution of higher learning, to a bustling 5,000-acre campus with 46,000-plus undergraduate students and a nationally recognized faculty, Texas A&M University is one of a select few universities with land-grant, sea-grant and space-grant designations. The site of the 2010 Bridge to the Doctorate program offers the 8,500-plus graduate students a selection of more than 240 Master's and Ph.D. programs. Classified by the Carnegie Foundation as a "Doctoral/Research University-Extensive", Texas A&M consistently ranks in the top tier in research expenditures, with more than $570 million.

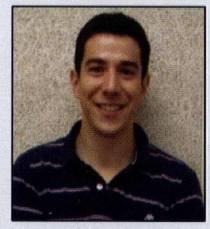


BRIDGE TO DOCTORATE VI



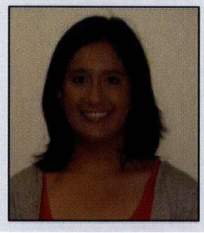
Joel Barrera
BS, Electrical Engineering, Texas A&M University, 2009
MS Student, Electrical Engineering
Career Goal: "Study Electromagnetics and enter industry working on microwave/RF and antenna"

Chelsea Harris
BS, Mathematics & Chemistry, Texas Southern University, 2009
Ph.D. Student, Biochemistry
Career Goal: "Enter academia enhancing science curriculum and the study of protein interactions"

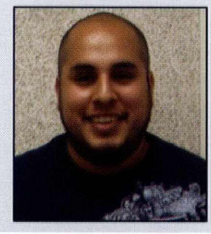


Oscar Rodriguez
BS, Nuclear Engineering, Texas A&M University, 2010
MS Student, Mechanical Engineering
Career Goal: "Receive a Ph.D. and return to academia to teach and inspire future generations"

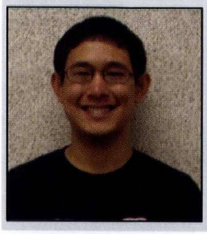
Mark Carter
BS, Agriculture, Prairie View A&M University, 2010
MS Student, Animal Science
Career Goal: "Work for USDA Animal Welfare, improving the treatment and handling of livestock animals"



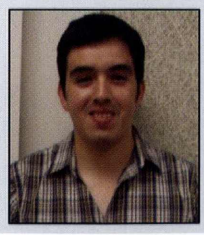
Andrea Montalvo
BS, Biology, The University of Texas at Austin, 2009
MS Student, Wildlife and Fisheries Sciences
Career Goal: "Work for the federal government to design and implement more effective management strategies"



David Alejandro Silva
BS, Microbiology, Texas A&M University, 2010
Ph.D. Student, Biology
Career Goal: "Finish my Ph.D. program and become a professor leading a lab"

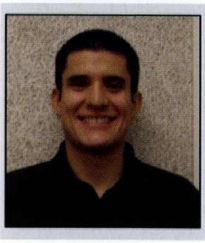


Jerome Escano
BS, Biology, The University of Texas-Pan American, 2010
Ph.D. Student, Biology
Career Goal: "Obtain a graduate degree in Biology and enter academia conveying what I've learned to future generations"

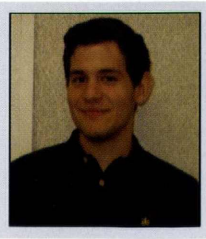


Rolando Olivares
BS, Mathematics, The University of Texas -Pan American, 2007
MS Student, Statistics
Career Goal: "Obtain a Ph.D., work as a Post Doc, and assume a position as a professor at a research institution."

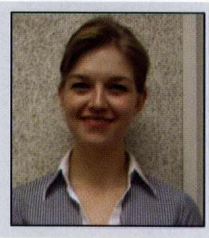
Zaria Torres
BS, Biomedical Science, Texas A&M University, 2009
Ph.D. Student, Wildlife and Fisheries Sciences
Career Goal: "Obtain my Ph.D. and work with the Center of Disease Control or the USDA"



Adolfo Escobedo-Pinto
BS, Mathematics, California State University, 2009
Ph.D. Student, Industrial and Systems Engineering
Career Goal: "Pursue a career in industry, academia or both and impact my field and the world at large"



Erik Rodriguez
BS, Mechanical Engineering, University of Central Florida, 2010
Ph.D. Student, Mechanical Engineering
Career Goal: "Further energy efficient research and development "



Erin Kathleen Vehstedt
BS, Physics and Mathematics, Tulane University, 2009
Ph.D. Student, Physics
Career Goal: "Pursue research in condensed matter to improve understanding of unusual phenomena in strongly-correlated systems"

THE UNIVERSITY OF TEXAS SYSTEM

LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION

University of Texas System Bridge to the Doctorate 2010-2012

Adrian Rodriguez
BS 2009
UT Austin

"I aspire to obtain a Ph.D. degree in Mechanical Engineering and work at a research laboratory where I can contribute to the advancement of technology in the area of robotic systems."
Ph.D. Mechanical Engineering

Angela Osen
BS 2009
UT Arlington

"After obtaining my Ph.D. degree, I plan to pursue a career in academia. Ultimately, I would like to work as a professor and also apply my knowledge for the betterment of the community."
Ph.D. Earth & Environmental Sciences

Alexis Gonzalez
BS 2009
UT Arlington

"My Ph.D. research will focus on aircraft engine processes and how they fit into the overall aircraft design. I would like to help define the state of the art in aircraft design as part of my work in the field."
Ph.D. Aerospace Engineering

Jessica Mooney
BS 2009
Texas A&M

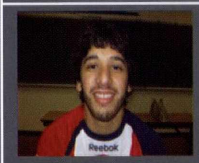
"I would like to use my knowledge to solve real-world engineering problems in an industrial setting before making my way back to academia as a faculty member where I can mentor future generations of engineers."
Ph.D. Materials Science Engineering

Betsegaw Gebrehiwot
BS 2010
UT Arlington

"I intend to focus my research on electronic cooling systems. After I earn my Ph.D. degree, I see myself teaching at a university, conducting research, and mentoring others to fulfill their dreams in achieving academic excellence."
Ph.D. Mechanical Engineering

Marianna Vallejo
BS 2010
UT Arlington

"My aspiration is to continue my research, teach, and ultimately inspire students like myself to continue their pursuit of technical degrees and to fulfill their dreams."
Ph.D. Mechanical Engineering

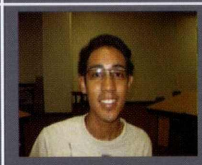


Ernesto Garcia
BS 2010
UT Arlington

"Before becoming a professor and working in academia, upon receiving my Ph.D. degree I first would like to get industrial experience and apply mathematics to solve real-world problems."
Ph.D. Mathematics

Nagham Alatrash
BS 2009
UT Pan American

"I plan to focus my research on chemotherapeutics and expand my knowledge and gain skills in synthetic chemistry. After earning my Ph.D. degree, I would love to teach and conduct research."
Ph.D. Chemistry



Iván Ojeda-Ruiz
BS 2010
University of Puerto Rico Rio Piedras

"After receiving my PhD degree, I would like to return to Puerto Rico as a professor to teach, conduct research, and actively involve undergraduate students in research."
Ph.D. Mathematics

Samara Morris-Bobzean
BA 2009
UT Arlington

"My career goal is to become a leading neuroscientist by using behavioral, biochemical, and molecular techniques to study the neural mechanisms which contribute to sex differences in addiction."
Ph.D. Psychology

Joseph Salazar
BS 2010
Cal State - San Bernardino

"After earning my Ph.D. degree, I plan to be a post-doctoral associate and eventually obtain a teaching position where I can share my passion of geological sciences with others."
Ph.D. Earth & Environmental Sciences

Sarah Hernandez
BS 2007
Texas Christian University

"By earning a doctoral degree, I hope one day I will be a professor at a university where I can continue learning and engaging students in exciting research contributions to the field of condensed matter physics."
Ph.D. Physics

As a member of the UT System Alliance for Minority Participation, The University of Texas at Arlington sets the standard for educational excellence in the thriving Dallas-Fort Worth metropolitan area. The University fosters an active learning environment for its 33,000 students who pursue nearly 190 bachelor's, master's and doctoral degrees within 10 colleges and schools.

The UT System LSAMP program is proud to have been selected to host Cohort VIII of the Bridge to the Doctorate project. The BD initiative gives us the opportunity to support students who might not otherwise consider pursuing a doctoral degree. It has also given us the opportunity to experiment with novel ways to broaden participation in graduate education and to increase the efficacy of existing mentoring and training activities.

Tuncay Aktosun, Ph.D.
UT Arlington
Professor of Mathematics
2010 LSAMP BD
Co-Principal Investigator

Ariana Arciero, M.P.H.
UT El Paso
Assistant Director
UT System LSAMP
500 W. University Ave
El Paso, TX 79902
(915) 747-8725
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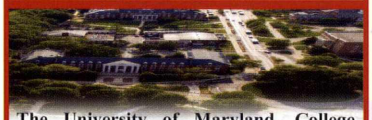
Philip Cohen, Ph.D.
UT Arlington
Dean of the Graduate School, Vice Provost for Academic Affairs and Professor of English
2010 LSAMP BD
Co-Principal Investigator

Benjamin Flores, Ph.D.
UT El Paso
Acting Dean of the Graduate School and Professor of Electrical and Computer Engineering
UT System LSAMP
Principal Investigator

Helmut Knaust, Ph.D.
UT El Paso
Associate Professor of Mathematics
UT System LSAMP
Co-Principal Investigator

University System of Maryland LSAMP Bridge to the Doctorate

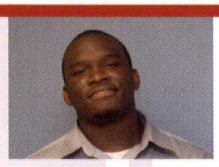
Dr. Freeman Hrabowski
President, University of Maryland, Baltimore County
PI, University System of Maryland LSAMP



The University of Maryland, College Park is among the most high-ranking public research universities in the nation with the student body consisting of some of the brightest high school graduates from across the nation and the world. It provides an exceptional graduate and professional education program that covers all subjects for the program's students who will be the leaders of tomorrow. The UMCP LSAMP Program is focused on increasing the quantity and quality of students participating in and completing science, technology, engineering, and mathematics (STEM) baccalaureate, masters, and doctoral degree programs. LSAMP is particularly supportive of those who are grossly underrepresented in the STEM fields.

Jaime Gomez

BS Physics 2010
University of Maryland, College Park
Major: Chemical Physics
Career: To teach at the University level and to increase minority participation in STEM fields.



Dave Jenkins

BS Chemistry 2010
University of Texas at Tyler
Major: Chemistry
Career: To work in the field of synthetic organic chemistry focusing on compounds with promising bioactivity.

Elizabeth LeBrun

BS Mechanical Engineering 2010
University of Maryland, College Park
Major: Mechanical Engineering
Career: To work in the areas of materials and manufacturing.

Michael Locastro

BS Computer Engineering 2010
University of Maryland, Baltimore County
Major: Electrical Engineering
Career: To work in the areas of digital signal processing for speech and biological systems.

"The Bridge to the Doctorate Program is the link that connects LSAMP undergraduates to advanced degrees. At the University of Maryland, College Park students in the BD Program have the opportunity to participate in cutting edge research with faculty, mentoring, and other academic enrichment activities. BD is a positive step towards increasing the number of underrepresented students being awarded doctoral degrees in science, technology, engineering, and mathematics (STEM)."

Ms. Tamara Hamilton is the Bridge to the Doctorate and the LSAMP Co-Principal Investigator at the University of Maryland, College Park. The UMCP LSAMP is managed by the Center for Minorities in Science and Engineering in the A. James Clark School of Engineering.

www.lsamp.umd.edu
Email: hamiltot@umd.edu

Nefretiti Nassar

BS Electrical Engineering 2010
University of Maryland, College Park
Major: Systems Engineering
Career: To ultimately become the director of NASA Goddard Space Flight Center.

Sarah Obadina

BS Mechanical Engineering 2009
University of Maryland, College Park
Major: Mechanical Engineering
Career: To work in the areas of energy, heat transfer, and fluid mechanics.

Crystal Romeo

BS Environmental Science 2006
Spelman College
Major: Environmental Science
Career: To serve as a liaison between scientific research and the public policy process. To also become a professor at a research University.

Matthew Temba

BS Mathematics 2010
Morehouse College
Major: Mathematics
Career: To work in the areas of analysis and policy.

Jeremy Ticey

BS Physics 2010
Hampton University
Major: Material Science and Engr
Career: To obtain a research position at a laboratory and to create new materials that will improve the daily lives of people.

Jeffrey Williams

BS Mechanical Engineering 2010
University of Maryland, College Park
Major: Mechanical Engineering
Career: To continue research in Atomic Force Microscopy, seeking to expand measurement capabilities for microscale viscoelastic phenomena.

Vanessa Williams

BS Cognitive Science 2009
University of California, San Diego
Major: Neuroscience and Cognitive Science
Career: To investigate the neurological and behavioral development of infants and children.

Sean Wint

BS Electrical Engineering 2010
University of Louisville
Major: Telecommunications
Career: To work in the areas of nanotechnology and telecommunications.

Western Alliance to Expand Student Opportunities (WAESO)
Interdisciplinary and Societally Relevant Bridges to the Doctorate

Fellowship recipients participate in a sequence of supervised program activities under the unifying theme of **Interdisciplinary and Societally Relevant Bridges to the Doctorate**. Fellows take part in the *Arizona Biodesign Institute* and the *Mathematical and Theoretical Biology Institute* in addition to traditional academic departments. Academic specializations cut across disciplines and permit cutting-edge research in any of the following areas: modeling, analysis, design, and control of complex systems and processes, mathematical biology, computational mathematics, demography, ecology, environmental science, epidemiology, bio-terrorism, networks, photobiology, photochemistry, synthetic chemistry, photosynthetic systems, communications, controls, multi-objective optimization, vaccines from applied crop science, protein and peptide pharmaceuticals, biooptical nanotechnology, single molecule biophysics, applied nanobioscience, neural interface and brain control, rehabilitation neuroscience and rehabilitation engineering, evolutionary functional genomics, and distributed computation.

LSAMP Interdisciplinary and Societally Relevant STEM Bridges to the Doctorate

Program activities are designed to assist students in developing the research and related skills necessary for successful doctoral study while completing a Master of Science degree with thesis. All fellows participate as a cohort in the following program activities: 1. Research Class. 2. Research Seminars. 3. Research Presentations. 4. Professional Conferences. 5. Professional Organizations. 6. Mentoring of Undergraduates. 7. Visits to High Schools. 8. Assessment and Mentoring.

We in the Western Alliance to Expand Student Opportunities (WAESO), are thrilled to participate in all seven LSAMP Bridges to the Doctorate cohorts thus far. All of the bridged LSAMP students share the vision of breaking disciplinary boundaries by working closely with collaborative teams of mathematicians, physicists, biologists, engineers, chemists, and biomedical researchers. In turn, the research team leaders are pleased to be able to recruit talented and energetic LSAMP graduates who have been encouraged and nurtured by our exemplary faculty mentors within our alliance. On behalf of my WAESO colleagues, I applaud the National Science Foundation's efforts in once again supporting bridges to help meet the nation's critical need in the science and technology workforce.

Dr. Antonio A. García

Dr. Carlos Castillo – Chávez

Dr. Ana Moore

Dr. Ferran Garcia-Pichel

Dr. Jean Andino

WAESO Principal Investigator/Project Director: Dr. Antonio A. García, Professor, Harrington Department of Bioengineering, Ira A. Fulton School of Engineering, Arizona State University. *Research Area*: Bionanotechnology. *Doctoral Degree*: Chemical Engineering.
Bridge to the Doctorate Co-Coordinators: Dr. Carlos Castillo-Chávez, Joaquín Bustoz Jr. Professor of Mathematical Biology and Director of the Mathematical and Theoretical Biology Institute, Department of Mathematics and Statistics, Arizona State University. *Research Area*: Mathematical, Theoretical, and Computational Epidemiology. *Doctoral Degree*: Applied Mathematics. Dr. Ana Moore, Professor, Department of Chemistry and Biochemistry, Arizona State University. *Research Area*: Photochemistry. *Doctoral Degree*: Chemistry. Dr. Ferran García-Pichel, Associate Professor, Faculty of Ecology, Evolution and Environmental Science & Faculty of Genomics, Evolution and Bioinformatics, School of Life Sciences, Arizona State University. *Research Area*: Geomicrobiology. *Doctoral Degree*: Biology. Dr. Jean Andino, Associate Professor, Faculty of Chemical Engineering, School for Engineering of Matter, Transport and Energy, Arizona State University. *Research Area*: Atmospheric Chemistry, Air Pollutant Sensing and Control, Chemical Kinetics. *Doctoral Degree*: Chemical Engineering.

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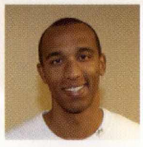
2. 
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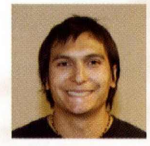
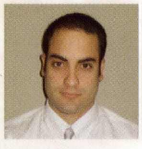
6. 
7. 
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1.) NAME: *Michael E. Garcia*; **Undergraduate Degree:** B.S.E.; **Undergraduate Major:** Aerospace Engineering; **Institution:** Arizona State University; **Year of Degree:** 2009; **Graduate School Major:** Mechanical Engineering; **Career Goal:** Professor of Mechanical Engineering **2.)** *Hamadi McIntosh*; B.A.; Physics; San Jose State University; 2010; Biomedical Engineering; Professor at a major research university **3.)** *Sarah E. Mennenga*; B.S.; Psychology; Arizona State University; 2010; Behavioral Neuroscience; Research position at a university **4.)** *Anarina L. Murillo*; B.S.; Psychology; Arizona State University; 2010; Applied Mathematics for the Life and Social Sciences; Professor/Conduct research in public health and biomedical fields **5.)** *Pierina Ortíz*; B.S.E.; Bioengineering; Arizona State University; 2009; Biomedical Informatics; Ph.D. **6.)** *Dustin Padilla*; B.S.; Mathematics and Chemistry; Western New Mexico University; 2009; Applied Mathematics for the Life and Social Sciences; Ph.D. **7.)** *Oscar Patterson Lomba*; B.S.; Physics; Montclair State University; 2010; Applied Mathematics for the Life and Social Sciences; Professor and researcher **8.)** *Paulina Reina*; B.S.E.; Civil Engineering; Arizona State University; 2009; Civil Engineering; Ph.D./Professor **9.)** *Monique Rodríguez*; B.S.; Chemical Engineering; Arizona State University; 2010; Chemical Engineering; Work for a national laboratory in research and development **10.)** *Selisa Rollins*; B.S.; Chemical Engineering; Arizona State University; 2010; Chemical Engineering; Professor **11.)** *David Otto Schwake*; B.S.; Microbiology with a minor in German; Arizona State University; 2008; Microbiology; Ph.D. to become a university professor/military service **12.)** *Adrian N. Smith*; B.A.; Mathematics; University of Washington; 2009; Applied Mathematics for the Life and Social Sciences; Research physiological mechanisms of memory and learning

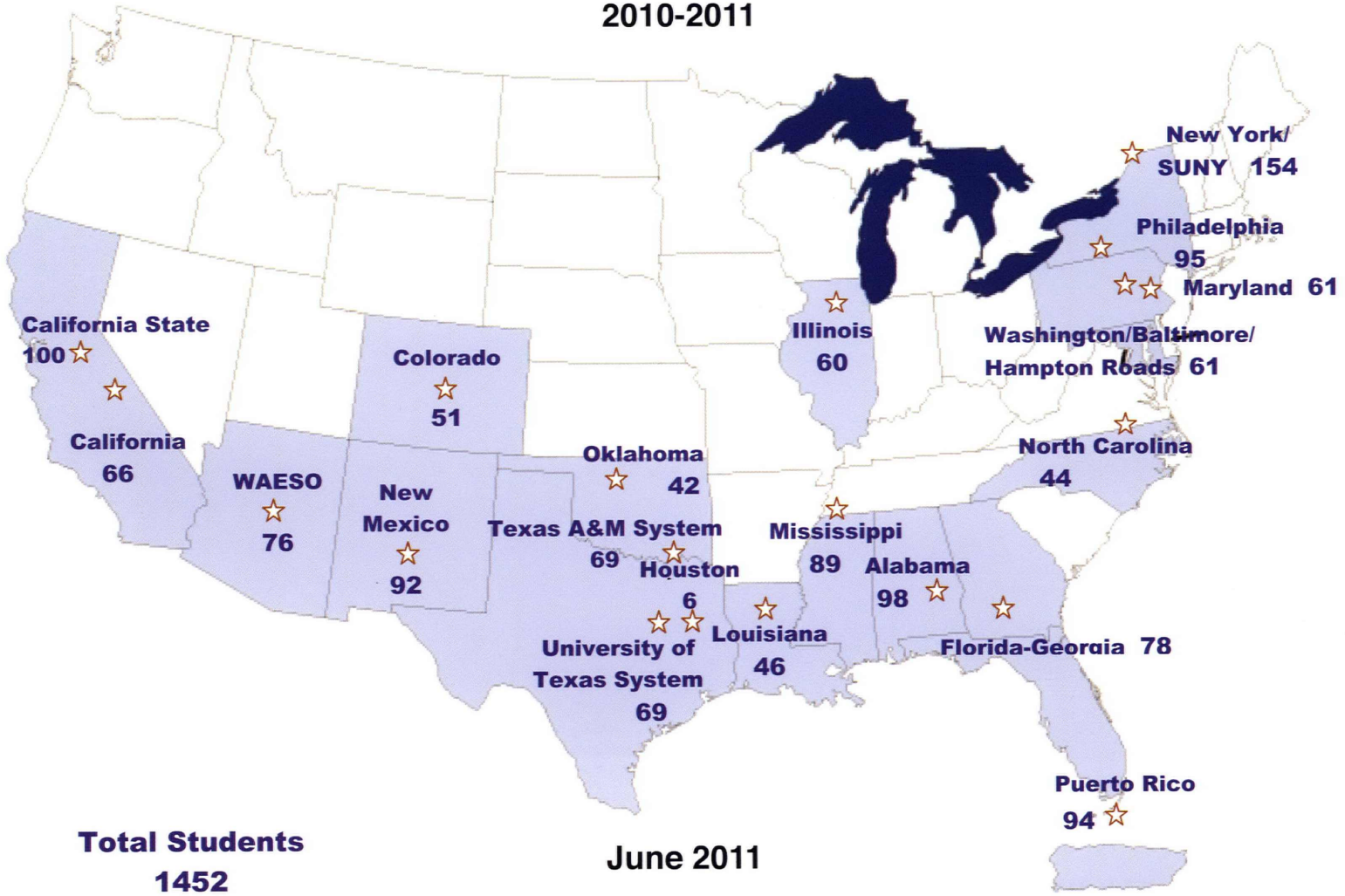
COHORT VIII Principal Investigators

ALLIANCE	PRINCIPAL INVESTIGATOR	ADDRESS	TELEPHONE/E-MAIL
Alabama	Dr. Louis Dale *Vice President for Equity and Diversity*	The University of Alabama at Birmingham 1530 3rd Avenue South, CH 401 Birmingham, AL 35294-1170	(205) 934-8762 ldale@uab.edu
California	Dr. Michael V. Drake *Chancellor*	The University of California, Irvine The Chancellor's Office 510 Administration Irvine, CA 92697-1900	(949) 824-5111 chancellor@uci.edu
California State University	Dr. Joseph Sheley *Provost and Vice President for Academic Affairs*	California State University, Sacramento 6000 J Street, Sacramento Hall 0230 Sacramento, CA 95819-6016	(916) 278-6331 sheleyj@csus.edu
Colorado	Dr. Rick Miranda *Interim Provost & Executive Vice President*	Colorado State University 101 Campus Delivery Fort Collins, Colorado 80523-1001	(970) 491-6614 rick.miranda@colostate.edu
Florida-Georgia	Dr. Ralph W. Turner *Dean, College of Arts and Sciences*	Florida A&M University 1540 South Adams Street, Suite-A Tallahassee, FL 32307	(850) 561-2467 ralph.turner@famu.edu
Mississippi	Dr. Abdul K. Mohamed *Dean Emeritus, College of Science, Engineering and Technology*	Jackson State University P.O. Box 18119 Jackson, MS 39217	(601) 979-1604 abdul.k.mohamed@jsums.edu
New Mexico	Dr. Wendy Wilkins *Executive Vice President & Provost*	New Mexico State University MSC 3445, P.O. Box 30001 Las Cruces, NM 88003-8001	(575) 646-2127 Provost@nmsu.edu
New York	Dr. Neville A. Parker *Professor of Civil Engineering*	City College of New York 138th Street and Convent Avenue Marshak-Building, Room J14 New York, NY 10031	(212) 650-8054 ampcc@ccny.cuny.edu
Philadelphia	Dr. Mark L. Greenberg *Provost and Senior Vice President of Academic Affairs*	Drexel University Office of the Provost 3141 Chestnut Street, Main Building 1st Floor Philadelphia, PA 19104	(215) 895-6321 mark.lawrence.greenberg@drexel.edu
Puerto Rico	Dr. Manuel Gómez *Director of the Resource Center for Science and Engineering*	The University of Puerto Rico at Rio Piedras P.O. Box 23334, UPR Station San Juan, PR 00931	(787) 764-8369 Mgomez@upr.edu
State University of New York (SUNY)	Dr. Samuel L. Stanley, Jr. *President*	State University of New York at Stony Brook The Office of the President 310 Administration Building Stony Brook, New York 11794-0701	(631) 632-6265 Samuel.Stanley@stonybrook.edu
Texas A&M University System	Dr. Karen L. Watson *Provost, Executive Vice President for Academic Affairs*	Texas A& M University 9th Floor Rudder Tower College Station, Texas 77843-1248	(979) 845-4016 Watson@tamu.edu
University of Texas System	Dr. Benjamin C. Flores *Acting Dean, Graduate School* *Professor - Electrical & Computer Engineering*	The University of Texas at El Paso 500 West University Avenue Graduate School El Paso, Texas 79968	(915) 747-6961 bflores@utep.edu
University System of Maryland	Dr. Freeman A. Hrabowski, III *President*	The University of Maryland, Baltimore County 1000 Hilltop Circle Baltimore, MD 21250	(410) 455-2274 hrabowski@umbc.edu
Western Alliance to Expand Student Opportunities (WAESO)	Dr. Antonio A. Garcia *Foundation Professor, Bioengineering*	Hispanic Research Center Arizona State university P.O. Box 875403 Tempe, AZ 85287-5403	(480) 965-8798 Tony.garcia@asu.edu

Bridge to the Doctorate Alliances

LSAMP alliances at the senior level are eligible for Bridge to the Doctorate (BD) support. BD funding provides financial support for eligible students for two years of graduate study. Proposals for BD support must describe effective strategies for recruiting, retaining, educating and graduating the participants. Proposers must provide documentation of past performance at the designated graduate institutional site of retaining, graduating and placing significant numbers of LSAMP graduates into doctoral-degree programs. A plan for formally connecting a significant number of matriculated LSAMP students, including master's degree graduates, to doctoral degree programs is expected. Beginning in FY 2008, requests for BD support must be submitted as a new proposal in FastLane.

2010-2011



Total Students
1452

June 2011

PS-15527