

THE NATIONAL SCIENCE FOUNDATION



Louis Stokes Alliances for Minority Participation

# BRIDGE TO THE DOCTORATE

## Cohort VII

Retention and Placement of Significant Numbers of  
Underrepresented Minority Graduates  
into Doctoral Degree Programs

### 2009-2011 Participating Alliances and Sites

**Alabama** (The University of Alabama at Birmingham), **California** (The University of California – Santa Barbara), **California State University** (California State University – Northridge), **Florida-Georgia** (The University of South Florida), **Houston** (The University of Houston), **Mississippi** (Jackson State University), **New Mexico** (New Mexico State University), **New York City** (City University of New York), **Oklahoma** (The University of Oklahoma), **Philadelphia** (Delaware State University), **Puerto Rico** (The University of Puerto Rico – Rio Piedras), **State University of New York** (SUNY – Stony Brook), **University of Texas System** (The University of Texas – El Paso), **University System of Maryland** (The University of Maryland – Baltimore County)



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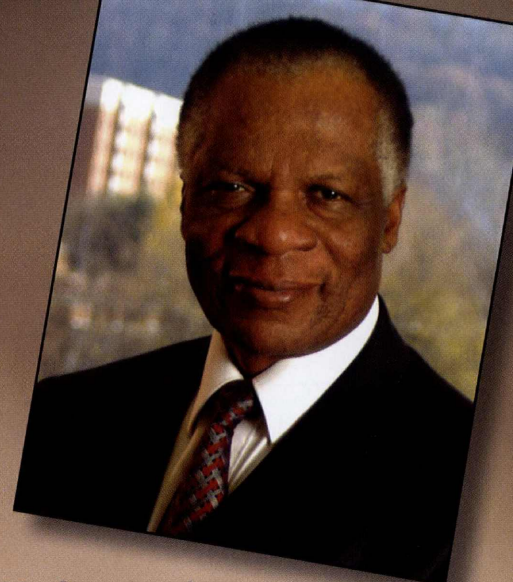
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# Origin of the Bridge to the Doctorate Program



In 2003, the Louis Stokes Alliances for Minority Participation (LSAMP) Program Director, Dr. A. James Hicks, received approval from the Director of the Division of Human Resource Development (HRD), Dr. Donald Thompson, to initiate, with no increase in funds, an additional undergraduate effort with the LSAMP program that provided a “bridge” to graduate study. This new undergraduate effort, called the “Bridge to the Doctorate” (BD) program, would work very similarly to the “Bridge” programs for high school graduates to undergraduate science, technology, engineering and mathematics (STEM) degree programs. It was a natural follow-up to the LSAMP Bridge Program for high school seniors; which the Westat Report characterized as one of the most effective elements of the LSAMP program.

With the 2003 LSAMP allocated budget, using enhanced budget skills, the LSAMP program director arranged to make supplemental awards to thirteen senior alliances impacting thirteen universities and 130 LSAMP students entering graduate school in STEM disciplines. These alliances were Alabama, California, California State, Florida Georgia, Missis-

issippi, New Mexico, New York, North Carolina, Philadelphia, Puerto Rico, Texas, Texas System and WAESCO. The BD awards were made to the lead LSAMP institutions which selected a Ph.D. degree granting institution to host the program while retaining full responsibility for the implementation of the program.

The first BD awards required each host institution to select ten students. However, beginning in 2004, each host institution was required to select twelve students. Many host institutions chose to provide support at the same level for several additional students. Thus, the program became very popular and its impact began to multiply.

*With the 2003 LSAMP allocated budget, using enhanced budget skills, the LSAMP Program director arranged to make supplemental awards to thirteen senior alliances impacting 130 LSAMP students entering graduate school in STEM disciplines.*

BD awards began as supplements to the existing LSAMP award. However, beginning in

2007, the awards were made as individual grants to the lead institution. Since 2003, the program has impacted 1,290 underrepresented minorities of which the majority have enrolled in Ph.D. programs in STEM disciplines and some have earned the Ph.D. degree. In addition, some BD students have applied for NSF Graduate Fellowships and other fellowship programs to complete graduate study. The BD program began to partner with the Alliances for Graduate Education and the Professoriate (AGEP) to provide additional support for students to complete doctoral studies. BD students have participated in international research opportunities and presented their research at professional meetings and research conferences across the country.

The LSAMP community owes a debt of gratitude to NSF, the LSAMP program and the LSAMP Program Director, Dr. A. James Hicks, for this wonderful and effective program.



# JOAN FERRINI-MUNDY

*appointed*

*Acting Assistant Director for EHR*



tion at Michigan State University (MSU) and Associate Dean for Science and Mathematics Education in the College of Natural Science. She is a professor in the Departments of Mathematics and Teacher Education.

Dr. Ferrini-Mundy was a visiting scientist in NSF's Teacher Enhancement Program from 1989-1991 and worked at the National Research Council from 1995-1999 as Director of the Mathematical Sciences Education Board and Associate Executive Director of the Center for Science, Mathematics and Engineering Education. Ferrini-Mundy was a member of the RAND Mathematics Study Panel, the National Assessment of Educational Progress (NAEP) Mathematics Assessment Framework Committee, the ACHIEVE Mathematics Advisory Panel and the Trends in International Mathematics and Science Study/Program for International Student Assessment (TIMSS/PISA) 2003 Expert Panel. In Michigan, she directs the Michigan Department of Education Teacher Preparation Policy Study Group to advise the Superintendent of Public Instruction about policy reform in teacher preparation and has served as chair of the recent Mathematics High School Content Expectations Development Committee. From 1983-1999, Ferrini-Mundy was a member of the Mathematics Department at the University of New Hampshire and in 1982-1983 she was a mathematics faculty member at Mount Holyoke College, where she co-founded the Summer Math for Teachers Program.

**D**r. Joan Ferrini-Mundy, Acting Executive Officer and Division Director, Division of Research on Learning (DRL) in Formal and Informal Settings has been appointed to serve as Acting Assistant Director for the National Science Foundation's (NSF) Directorate for Education and Human Resources (EHR). Previously she served as the Division Director of Division for Elementary, Secondary, and Informal Education, in the Directorate for Education and Human Resources. In that role, she supported NSF's mission of providing leadership and promoting development of the infrastructure and resources needed to improve pre-kindergarten through 12th grade science, technology, engineering and mathematics education throughout the United States. While on assignment at NSF, Dr. Ferrini-Mundy serves as a University Distinguished Professor of Mathematics Educa-



# 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	86
	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	5	3	1	2	1	12	
California	University of California – Los Angeles	C1	2	6	1	0	0	9	56
	University of California – Irvine	C2	4	2	4	0	2	12	
	University of California – San Diego	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	
California State University	San Francisco State University	C1, C4	13	5	2	4	3	27	88
	California State University – Los Angeles	C2, C3, C5, C6	19	10	10	8	2	49	
	California State University – Northridge	C7	0	5	1	5	1	12	
Colorado	Colorado State University	C4, C5, C6	12	15	10	2	1	40	40
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	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	25	14	5	8	77	77
New Mexico	New Mexico State University	A	23	17	34	6	0	80	80
New York	The City University of New York	A	21	14	26	13	12	86	86
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	83
	New Jersey Institute of Technology	C2	1	0	8	0	3	12	
	Drexel University	C3	4	0	8	0	0	12	
	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	22	36	6	6	0	70	82
	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	46
	The University of Buffalo	C5	0	6	5	0	1	12	
Texas	Texas A&M University	C1, C2, C4, C6	7	8	25	5	1	46	58
	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	57
	University of Texas - Pan American	C2	3	0	3	5	1	12	
University System of Maryland	University of Maryland, Baltimore County	C3, C7	0	2	14	2	8	26	50
	University of Maryland, College Park	C4, C6	4	6	11	3	0	24	
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	10	4	12	38	0	64	64
<b>Total</b>			<b>370</b>	<b>314</b>	<b>372</b>	<b>153</b>	<b>81</b>	<b>1290</b>	<b>1290</b>

**KEY:**

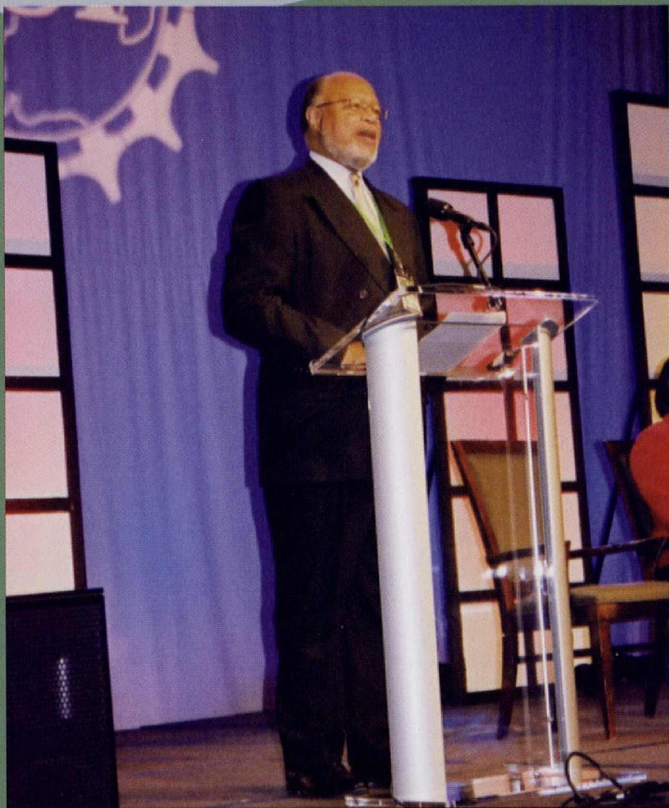
LS = Life Sciences  
 Ph.S. = Physical Sciences  
 Egr. = Engineering  
 CIS = Computer Information Systems

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)  
 A = All Cohorts



# Joint Annual



*James Wyche, Director, Division of Human Resource Development, welcomes JAM participants*



*Wanda Ward, Acting Assistant Director, Directorate for Education and Human Resources, gives keynote address*

## Opening Session Audience

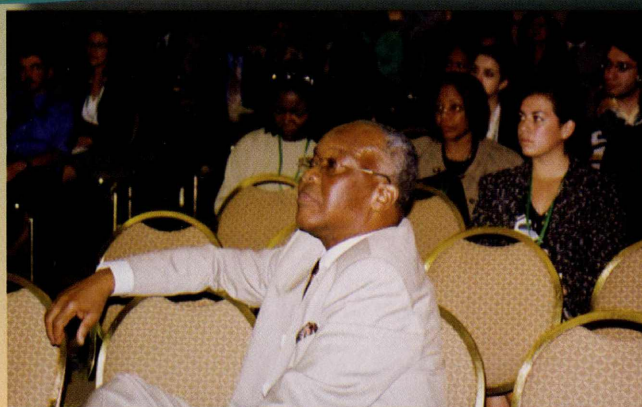




# Meeting 2009



## Bridge to the Doctorate Breakout Sessions Snapshots





# PROGRAM SITES AND COORDINATORS

LSAMP	BD Site	BD Coordinator	Cohort
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	The University of Puerto Rico at Mayaguez	Dr. Juan Gonzalez-Lagoa, (787) 831-1025, <a href="mailto:drj.gonzales@gmail.com">drj.gonzales@gmail.com</a>	C2
State University of New York	SUNY-Stony Brook	Dr. David L. Ferguson, (631) 632-8763, <a href="mailto:dferguson@notes.cc.sunysb.edu">dferguson@notes.cc.sunysb.edu</a> Ms. Lucy Gluck, (631) 632-9988, <a href="mailto:Lucille.Gluck@stonybrook.edu">Lucille.Gluck@stonybrook.edu</a>	C4, C6, C7
	The University of Buffalo	Dr. Letitia Thomas, (716) 645-3071, <a href="mailto:lthomas@buffalo.edu">lthomas@buffalo.edu</a>	C5
Texas	Texas A&M University	Dr. Karen Butler-Purry, (979) 847-9048, <a href="mailto:klbutler@ece.tamu.edu">klbutler@ece.tamu.edu</a> Dr. Shannon Henderson, (979) 862-4315, <a href="mailto:shannon@tamu.edu">shannon@tamu.edu</a>	C1,C2, C4, C6
	Prairie View A&M University	Dr. Kendall T. Harris, (936) 857-4200, <a href="mailto:ktharris@pvamu.edu">ktharris@pvamu.edu</a> Dr. Danny R. Kelley, (936) 857-4710, <a href="mailto:danny_kelley@pvamu.edu">danny_kelley@pvamu.edu</a>	C3
University of Texas System	The University of Texas, El Paso	Dr. Benjamin Flores, (915) 747-6961, <a href="mailto:flores@ece.utep.edu">flores@ece.utep.edu</a> Ms. Ariana Arciero, (915) 747-8725, <a href="mailto:avarcier@utep.edu">avarcier@utep.edu</a>	C1, C3, C6, C7
	The University of Texas - Pan American	Dr. Miguel Paredes, (956) 381-3452 ext. 2290, <a href="mailto:mparedes@panam.edu">mparedes@panam.edu</a>	C2
University System of Maryland	The University of Maryland - Baltimore County	Dr. Cynthia Hill, (410) 455-2274, <a href="mailto:chill@umbc.edu">chill@umbc.edu</a> Dr. Freeman Hrabowski, III, (410) 455-2274, <a href="mailto:hrabowski@umbc.edu">hrabowski@umbc.edu</a> Dr. Renetta G. Tull, (410) 455-2930, <a href="mailto:rtull@umbc.edu">rtull@umbc.edu</a>	C3, C7
	The University of Maryland - College Park	Ms. Tamara N. Hamilton, (301) 405-3882, <a href="mailto:hamiltot@umd.edu">hamiltot@umd.edu</a> Ms. Joelle Davis-Carter, (301) 405-2677, <a href="mailto:jdcarter@umd.edu">jdcarter@umd.edu</a>	C4, C6
Washington-Baltimore-Hampton Roads	Howard University	Dr. Clarence Lee, (202) 238-2511, <a href="mailto:cmlee@howard.edu">cmlee@howard.edu</a>	C2, C3, C4, C5, C6
Western Alliance to Expand Student Opportunities	Arizona State University	Dr. Antonio Garcia, (480) 965-8798, <a href="mailto:tony.garcia@asu.edu">tony.garcia@asu.edu</a>	C1, C2, C3, C4, C5, C6

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)  
A= All Cohorts



# Student News and Accomplishments 2009-2010

## Alabama

**Candace Watson**, a Ph.D. candidate from Canton, Michigan, was named the school's Graduate Student of the Year at Birmingham Engineering Industry Event in February. She was chosen from all students receiving departmental and program honors.



**The Third Annual Bridge to the Doctorate Winter Conference** was held January 22-23, 2010 at UAB. A Friday evening reception opened the event followed by a full Saturday of activities. Program requirements, expectations and current Alabama LSAMP and national BD data were discussed during the General Session.



*Left: Dr. Viola Acoff leads Engineering Focus Session*



*Right: BD student Samuel Jasper interacting during lunch break*

A student panel discussed *Interacting Successfully with your Grad School Advisor and Ask the Experts*. The PI Panels discussed: *Making a Smooth Transition-Preparing for Life After Graduate School; Affording a Graduate Education – Post BD, What Opportunities are Available?; Suggestions for Achieving More Balance in Your Life as Graduate Students and Ethical Behavior and Responsibility*.



*Student panel discusses an advisor's role*

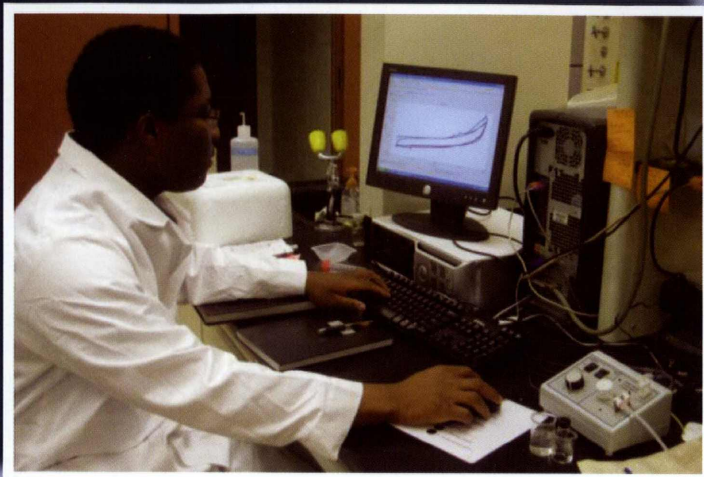


*Physics Focus Session*



## New Mexico

**Akinbayowa (Bayo) O. Falase**, BD Cohort VI participant, is working toward the Ph.D. in Chemical and Nuclear Engineering at the



University of New Mexico, with faculty mentor, Dr. Plamen Atnassov. With a focus on the creation of clean, affordable, renewable and safe power generation, Bayo plans a career in the professoriate in Chemical Engineering, with research interests in bio-engineered power sources. Currently, Bayo's research focuses on the development of biofuel cells, fuel cells that use a biological product, such as enzymes, to convert a hydrocarbon fuel into energy. He works with enzymes to fully oxidize glycerol to carbon dioxide. This is important because as biofuel production continues to increase, glycerol (a 10% yield by volume product) production increases as well. Currently, it is not used and is considered a waste stream. By using this glycerol, applications for this waste stream may be discovered, such as helping to power the plant that creates biofuels. In image at the top, Bayo is testing catalyst materials in order to design an efficient fuel cell.

**James Morel**, BD V participant, is currently conducting thesis research that is implemented on the San Juan River in New Mexico and Utah. The river is host to many endangered fish species that are being threat-

ened by non-native fish through predatory behavior and resource competition. A decade-long, non-native removal effort implemented by various governmental agencies has yielded unclear results in terms of whether the endangered species are showing positive responses (increased abundances and survival) toward the removal of the *nonnative predator*, channel catfish (*Ictalurus punctatus*). Using various population dynamic models, James is evaluating the impact removals have had upon the non-native *I. punctatus* population and hopes to find patterns that will allow an accurate evaluation of past and present population structure, indicating a successful removal program or the need for alternative methods of endangered fish recovery. James anticipates receiving the M.S. degree in the spring of 2010 and is currently applying for Ph.D. programs. James was recently awarded participation and travel in a highly competitive NSF-sponsored "Berkeley Edge Conference" from October 28-November 1, 2009. The conference was held at the University of California, Berkeley, and its function was to introduce awarded students to the Ph.D. programs offered at Berkeley to meet with department chairs and professors and to attend workshops aiding in the execution of well written statements of research and purpose for the Berkeley Ph.D. application. Participation in this program will provide tremendous advantage, or "edge," regarding the highly competitive application process at Berkeley. James is applying for a Ph.D. position in the Environmental Science, Policy, and Management Department for fall 2010.





**Karen Prade**, BD Cohort VI participant at the University of New Mexico, conducted research in Costa Rica by collecting biology samples from an acid stream in the crater of an active volcano, the Poas Volcano. The earthquake (now known as the Cinchona Earthquake) was quite catastrophic for Costa Rica and the death toll fairly high. The epicenter was 5km from the volcanic crater she and her advisor were in and it destroyed their path out; however, all of the members of the team eventually made it out safely.

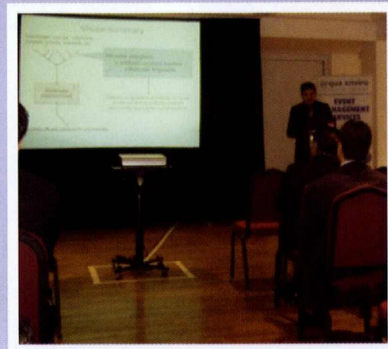
Her current research is focused on observing the geochemical and nitrogen isotope systematics throughout Iceland's volcanic zones to see if there is a geochemical or isotopic difference in the volatiles based on their mantle source. Karen also traveled to Iceland for her research in August 2008, where she collected many volcanic gas samples throughout the entire country. Importantly, Karen recently attended a field school in Greece in September 2009. She is working toward the M.S. in Geology, and her future plans are to pursue a Ph.D. and continue a research career in volcanology focusing on volatile geochemistry.

**Daniel Ramirez**, BD Cohort V participant, who is working toward the Ph.D. at New Mexico State University (NMSU) in Biology after receiving the M.S. in summer 2009, presented at the Annual Biomedical Research Conference for Minority Students (ABRCMS) in Orlando, Florida on November 5-8, 2008. At the event, Daniel presented a poster entitled "Heterologous Expression of Xenopus BK Channel Alpha and Beta Subunits in Chinese Hamster Ovary (CHO) and Xenopus Laevis Kidney (16) Cells." Daniel was awarded

the National Science Foundation (NSF) Integrative Graduate Education and Research Traineeship (IGERT) Fellowship through the Computer Science Department and the Biology Department at NMSU in August, 2009. Daniel also attended the Systems Biology of Human Disease 2009 Conference in Boston, MA from June 16-20, 2009.

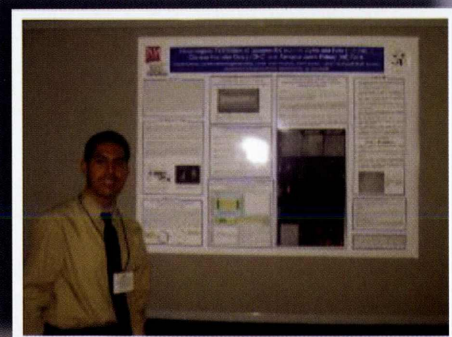
**Jesus Sigala**, BD VII participant, who is an Environmental Science major at NMSU, recently attended the 14th European Biosolids and Organic Resources Conference in Royal Armouries, Leeds, UK at which he presented a paper entitled, "Assessment of the Contribution of Wastewater Sources to the Diversity of Antibiotic Resistance in Wastewater Treatment Plants."

At the event, Jesus learned about current research in the field of wastewater treatment and biosolid land application and use from different perspectives. The conference exposed Jesus to a wide diversity of research and the interaction between researchers, and more importantly, it provided him the opportunity to network with, and receive feedback from other researchers from European and American universities. Jesus also met renowned environmental microbiology scientists from all over the world in the areas of wastewater and biosolids research.



**Ricardo Luna**, BD Cohort IV, reports two recent publications:

1. Luna, R.; Borah, D. K.; Jonnalagadda, R.; Voelz, D.G.; "Experimental Demonstration of a Hybrid Link for Mitigating Atmospheric Turbulence Effects in Free Space Optical Communication," to appear in *IEEE Photonics Technology Letters*.





- Luna, R; Borah, D.K.; Tapse, H; "Behavior of Hybrid Optical/RF Channels over Varying Link Distances" to appear in Proc.IEEE GLOBECOM, Honolulu, 2009.

**Martha Martinez-Grimes**, BD Cohort IV participant at NMSU, attended the Joint Annual Meeting of the American Society of Plant Biologists on July 18, 2009 in Honolulu, Hawaii. At the event, Martha presented her research in poster format entitled "Analysis of Expression of Genes in Sugar Metabolism in Root Nodules of Alfalfa." Martha is currently working on her Ph.D. at NMSU, with an expected date of completion of May, 2011.

**Carlos Ortega**, BD Cohort V presented at the American Institute of Aeronautics and Astronautics (AIAA) Guidance, Navigation and Control Conference from August 10-13, 2009, in Chicago, IL. At the conference, Carlos presented a paper entitled "Gravity-Balanced Test Stand for Testing Micro Air Vehicles."

**Jasmine Pando**, BD Cohort V, attended the 109th Annual Meeting of the American Society for Microbiology in May, 2009 in Philadelphia, PA. At the event, Jasmine presented "The Staphylococcus Aureus Ethanol Stimulon."

**Eduardo Trujillo**, BD Cohort V, was awarded a Fellowship to the Ohio State University Willing Henning Society Workshop in

Phylogenetics in Columbus, OH. Eduardo also traveled to Hawaii in June of 2009 to collect specimens of the Hawaiian Bobtail squid and their symbiotic bacteria from locations found on the islands of O'ahu and Kaua'i.

## *Puerto Rico*

**Ida Pantoja**, PR-LSAMP BDP Cohort V fellow, works on bacterial cultures to understand microbial responses to stressful environmental conditions that result in changes in the microbiome structure and how these changes and the resistance genes are vertically transmitted between generations. This work is being done at the Institute of Veterinary Bacteriology, University of Berne, Switzerland, 2009. Research topic: Vertical transfer of antibiotic resistance and of antibiotic-impacted bacterial community structures.

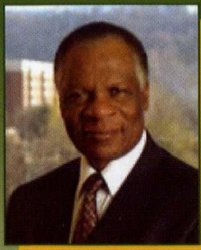
**Enid Contes**, PR-LSAMP BDP Cohort III and 2009 GRSP recipient, works on sample preparation of micro-fabricated sensor array at the NASA AMES, 2009 NASA-Ames Research Center, in California.



Her research topic is; "Preparation and Evaluation of Metal-modified Single Wall Carbon Nanotubes (SWCNTs) as Sensor Materials for Space and Terrestrial Applications."



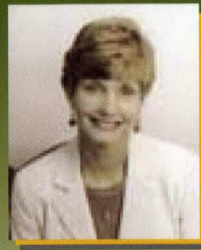
# Alabama Bridge to the Doctorate Cohort VII



**Dr. Louis Dale**  
UAB Vice President for Equity  
and Diversity, ALSAMP  
Principal Investigator



**Dr. Jean Ann Linney**  
UAB Interim Dean,  
College of Arts and  
Sciences



**Dr. Linda Lucas**  
UAB Dean, School of  
Engineering

The University of Alabama at Birmingham (UAB) Bridge to the Doctorate Program is designed to be a transitional effort for students earning undergraduate degrees in science, technology, engineering and mathematics. The program is directed by Dr. Louis Dale, Alabama ALSAMP Principal Investigator; Dr. Jean Ann Linney, Interim Dean of the College of Arts and Sciences and Dr. Linda Lucas, Dean of the School of Engineering.



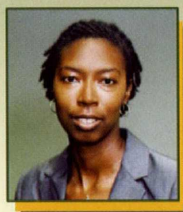
**Samantha Bromfield**

B.A., Mathematics, Oakwood University, 2006, Graduate Major: Mathematics – "My career goal is to conduct international research looking at infectious diseases and health disparities within populations of interest."



**Cordero Core**

ACS Certified B.S., Biochemistry, minor in Spanish, The University of Alabama at Birmingham, 2009, Graduate Major: Chemistry – "My career goal is to be a professor of Biophysical Chemistry (Ph.D. in Chemistry with a post-doctorate in Structural Biology) at a major college or university."



**Jaquice Hughes**

B.S., Environmental Sciences, Auburn University, 2007, Graduate Major: Civil/Environmental Engineering – "After achieving my Ph.D., I hope to share my knowledge inside and outside the classrooms at the collegiate level."



**Samuel Jasper**

B.S., Physics, Morehouse College, 2008, Graduate Major: Materials Science & Engineering – "Upon receiving my Ph.D. in materials engineering, I will seek employment opportunities with NASA and other aerospace corporations."



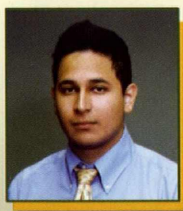
**Tashundra Jones**

B.S., Chemical Engineering, Tuskegee University, 2007, Graduate Major: Environmental Engineering – "Upon graduation, I would like to pursue a career with the Environmental Protection Agency to enforce the compliance of environmental policies."



**Alicia Kindred**

B.S., Biology, The University of Alabama at Birmingham, 2007, Graduate Major: Biology – "I aspire to earn a doctoral degree specializing in toxicology and pain management. I plan to apply the knowledge gained during my doctoral education to academia and industry."



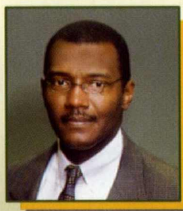
**Manuel Martinez**

B.S., Physics, Birmingham Southern College, 2009, Graduate Major: Physics – "I plan to work several years doing research in applied sciences. After researching, I hope to become a professor of physics at a university."



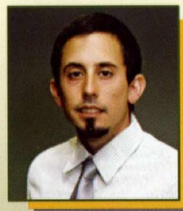
**Dennis Steverson, Jr.**

B.S., Biology, minor in Chemistry, Xavier University of Louisiana, 2007, Graduate Major: Pathology – "I want to use my research experience to find inexpensive alternatives to medications and vaccinations for lower socioeconomic populations."



**Glenn Terrell**

B.S., Chemical Engineering, The University of Alabama, Tuscaloosa, 1992, Graduate Major: Ph.D. in Interdisciplinary Engineering – "To obtain my Ph.D. license and own my own environmental remediation firm."



**Desmond Villalba**

B.S., Physics, North Georgia College and State University, 2009, Graduate Major: Physics – "My career goal is to be involved in cutting edge research that will further help propel humans into the 21st century, and to inspire the next generation of physicists."



**Candace Watson**

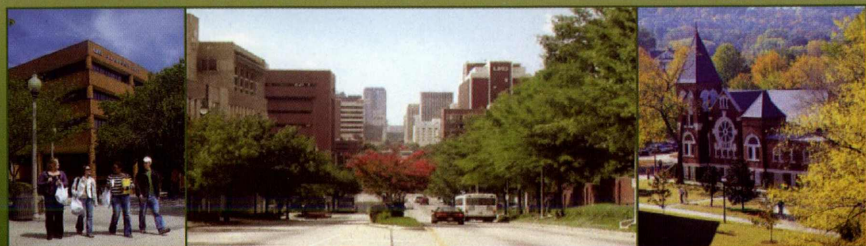
B.S., Architecture, Lawrence Technological University, 2007, Graduate Major: Civil Engineering – "My ultimate goal is to discover methods to reduce waste from the built environment and support sustainable buildings."



**Kendrick White**

B.S., Electrical Engineering, Tuskegee University, 2001, Graduate Major: Mathematics – "My career goal is to obtain a professorship at a university where I can continue my research in holomorphic dynamics."

UAB continues to attract the best and brightest students from around Alabama, the nation, and 109 countries around the globe. The student body is nearly 69 percent full-time, and more than 60 percent of freshmen live on campus. The average ACT score of entering students continues to trend upward, currently at 24.3, consistently besting state and national averages. *The Princeton Review* has called UAB "truly a great American melting pot of different cultures, religions, and races" and ranked the university third nationally in "diverse student population." That ranking is based on more than demographics. At UAB diversity runs deeper than the data; there is sense of genuine community and appreciation for students' individuality. It's an environment that mirrors today's world and prepares students for a successful and meaningful career—and life—that benefits society.





## UC Bridge to the Doctorate ~ Cohort V

### RODRIGO AZEVEDO

- B.S., Chemical Engineering, University of California Irvine, 2009
- Grad School Major: Chemical Engineering, Ph.D.



### JOSE GALLEGOS

- B.S., Computer Science and Engineering, University of California Irvine, 2009
- Grad School Major: Computer Science, Ph.D.



### JOHN GARCIA

- B.S., Computer Science, University of California Santa Barbara, 2007
- Grad School Major: Electrical & Computer Engineering, Ph.D.



### SAMEH HELMY

- B.S. Chemistry, California State University Channel Islands, 2010
- Grad School Major: Chemistry and Biochemistry, Ph.D.



### HEATHER HODGES

- B.S. Chemistry, University of California Davis, 2007
- Grad School Major: Earth Sciences, Ph.D.



### ION LO KIM LIN

- B.S. Mathematics, University of California, Berkeley, 2010
- Grad School Major: Mathematics, Ph.D.



### STEPHANIE MENDES

- B.S., Chemistry, California State University Chico, 2009
- Grad School Major: Earth Sciences, Ph.D.



### MICHAEL NAVA

- B.S., Mathematics, California State University Channel Islands, 2009
- Grad School Major: Statistics & Applied Probability, Ph.D.



### COURTNEY PALMER

- B.S., Electrical Engineering, University of Tulsa, 2009
- Grad School Major: Electrical & Computer Engineering, Ph.D.



### CARLOS TORRES

- B.S., Electrical Engineering, San Jose State University, 2009
- Grad School Major: Electrical & Computer Engineering, Ph.D.



### RAYMOND VALDES

- B.S., Aerospace and Mechanical Engineering, University of California Irvine, 2009
- Grad School Major: Mechanical Engineering, Ph.D.



# California LSAMP Bridge to the Doctorate 2009-2011 • UC Santa Barbara

University of California, Santa Barbara is one of the nation's top public research universities and one of only 62 institutions in the American Association of Universities. As it has become more popular for its quality and breadth of academic programs, UCSB has placed a priority on science and engineering education programs, through strategic hiring and support of research that is matched with an extensive program of building new facilities.

Over 25 UCSB faculty have current funding awards and fellowships through the NSF faculty development early CAREER awards, the Arnold and Mabel Beckman Foundation, the Alfred P. Sloan Foundation and the David and Lucille Packard Foundation. UCSB is among the top 25 NSF funded U.S. universities and its intellectual depth is reflected in the fact that UCSB scientists earned 4 Nobel Prizes, 2 in Chemistry and 2 in Physics, between 1998 and 2004.

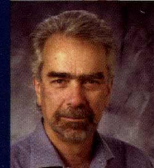
In addition, UCSB offers an exceptional research environment, as evidenced both by highly ranked departments and by strong interdisciplinary graduate programs that cross traditional STEM boundaries. Our BD program is integrated into this exciting research environment, with strong support from leading STEM researchers.

*"We are very excited that this outstanding group of new students chose University of California, Santa Barbara for their graduate studies. Their success will increase our institution's contribution to promoting greater diversity among our nation's science, engineering and mathematics leaders. We look forward to their contributions to their chosen fields and to UCSB in these next years of study with us."*

—Dr. Glenn Beltz, Associate Dean,  
College of Engineering, UCSB



**Glenn Beltz**  
Co-Director  
Associate Dean  
College of Engineering



**Bruce Luyendyk**  
Co-Director  
Associate Dean  
Mathematics, Life and  
Physical Sciences



**M. Ofelia Aguirre**  
Associate Director  
Education Programs  
Manager, California  
NanoSystems Institute  
Phone: 805.893.7472  
aguirre@cnsi.ucsb.edu



UNIVERSITY OF CALIFORNIA  
LOUIS STOKES ALLIANCE FOR MINORITY PARTICIPATION

#### CAMP STATEWIDE LEADERSHIP

MICHAEL V. DRAKE, M.D., Chancellor, UC Irvine, P.I.  
DEBRA J. RICHARDSON, Ph.D., Dean, Donald Bren School of Information & Computer Science, Co-P.I.  
DEREK DUNN-RANKIN, Ph.D., Professor & Chair, Mechanical & 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](http://www.california-lsamp.uci.edu)



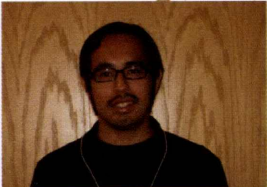
# CALIFORNIA STATE UNIVERSITY LSAMP PROGRAM



Juanita Barrena, Ph.D.  
Professor, Biological Sciences  
Sacramento State  
Co-PI/Lead Project Director,  
CSU-LSAMP  
PI, CSU-LSAMP BD-VII

NSF funding of Bridge to the Doctorate activities in the California State University-Louis Stokes Alliance has enabled the California State University to provide a highly successful Master's level "bridge" to broadening participation in STEM at the doctoral level. To date, CSU-LSAMP has supported 90 BD-Fellows in Master's level study and we anticipate that 75-80% of these students will be successful in completing STEM doctoral study at Research I (R1/VH) Institutions. California State University, Northridge serves as the site for the 2009-2011 BD-VII Cohort activities.

## CSU-LSAMP Bridge to the Doctorate VII California State University, Northridge Academic Year 2009-2010



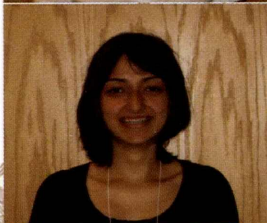
**Cesar Ascencio**  
B.S., Electrical Engineering  
California State University,  
Northridge  
**Current:** Physics  
**Career Goal:** PhD—Faculty



**Jesse Benayides**  
B.S., Mathematics  
California State University,  
Northridge  
**Current:** Mathematics  
**Career Goal:** PhD—Faculty



**Danielle Casillas**  
B.S., Chemical Engineering  
California Polytechnic State  
University, Pomona  
**Current:** Materials Science Engineer-  
ing  
**Career Goal:** PhD—Faculty



**Sonia Chauhan**  
B.S., Mathematics  
California Polytechnic State  
University, Pomona  
**Current:** Mathematics  
**Career Goal:** PhD—Faculty



**Martha Dawczyk**  
B.S., Mathematics  
California State University,  
Northridge  
**Current:** Mathematics  
**Career Goal:** PhD—Research



**Chad Griffith**  
B.S., Mathematics  
Sonoma State University  
**Current:** Mathematics  
**Career Goal:** PhD—Research



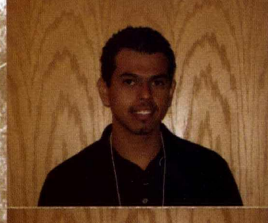
**Christopher Gutierrez**  
B.S., Computer Science  
California State University,  
Bakersfield  
**Current:** Computer Science  
**Career Goal:** PhD—Faculty



**Melissa Nunley**  
B.S., Geology  
California State University,  
Fullerton  
**Current:** Geology  
**Career Goal:** PhD—Faculty



**Kevin Raines-Martinez**  
B.S., Physics  
University of California,  
Los Angeles  
**Current:** Physics  
**Career Goal:** PhD—Research



**Cristo Ramirez**  
B.S., Geology  
California State University,  
Northridge  
**Current:** Geology  
**Career Goal:** PhD—Research



**Roxanne Sanchez**  
B.S., Chemistry  
California State University,  
Channel Islands  
**Current:** Chemistry  
**Career Goal:** PhD—Research



**Melanie Sanders**  
B.S., Mathematics  
California State University,  
Sacramento  
**Current:** Mathematics  
**Career Goal:** PhD—Research

## BD-VII Coordinators at CSUN



**Kathleen Marsaglia**

BD-VII Lead Project Director, Co-PI  
Professor & Graduate Advisor  
Department of Geological Sciences  
California State University Northridge  
Ph.D., 1989 Geological Sciences  
University of California, Los Angeles  
*Sandstone Petrology, Sedimentation*  
(818) 677 3541 • (818) 677 2820 (fax)  
kathie.marsaglia@csun.edu



BD-VII Associate Project Directors, from  
Left to Right: Ana Christina Cadavid, Carol  
Shubin, Karla Pelletier

## Ana Christina Cadavid

BD-VII Associate Project Director, Co-PI  
Professor and Chair  
Department of Physics and Astronomy  
California State University Northridge  
Ph.D. 1989 Physics  
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## Carol Shubin

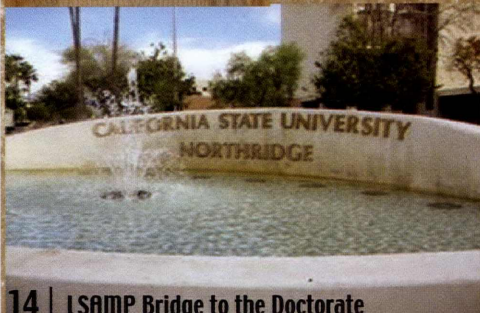
BD-VII Associate Project Director, Co-PI  
Professor and General Advisor  
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California State University Northridge  
Ph.D. 1989, Mathematics  
University of California, Los Angeles  
*Analysis*  
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carol.shubin@csun.edu

## Karla Pelletier

BD-VII Associate Project Director, Co-PI  
LSAMP Director & CECS Student Services  
Center/EOP Director  
College of Engineering & Computer Science  
Student Services Center/EOP  
California State University Northridge  
Ed.D., 2002 Educational Technology  
Pepperdine University, Culver City  
818 677 2191 • 818 677 2026 (fax)  
kjp@csun.edu

## California State University, Northridge

Founded in 1958, California State University, Northridge is a vibrant, diverse university community, located on 356-acres in the heart of Los Angeles' San Fernando Valley. CSUN, which is among the nation's largest single-campus universities, encourages students to combine academic pursuits with hands-on experience. It also serves as the intellectual, economic and cultural heart of the Valley and beyond. Alumni include past state Teachers of the Year, Grammy Award winners, public officials including a current state governor, nationally-known newscasters, and a space shuttle astronaut. Their success reflects the hard work of Cal State Northridge's students and the commitment of faculty and staff to helping students fulfill their goals.





# Florida Georgia Louis Stokes Alliance for Minority Participation

The Bridge to the Doctorate Program at the University of South Florida



Career Goals:  
Ph.D.  
Electrical  
Engineering  
Industry/  
Research

Frank Alexander, Jr.  
B.S. Electrical Engineering  
Southern A&M University, 2009



Career Goals:  
Ph.D.  
Biomedical  
Sciences  
Faculty/  
Research

Nadine Nelson  
B.S. Cell Biology and Genetics  
University of Maryland, 2007



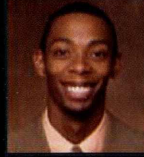
Career Goals:  
Ph.D.  
Electrical  
Engineering  
Industry/  
Research

Brandon Richard  
B.S. Electrical Engineering  
Southern A&M University, 2009



Career Goals:  
Ph.D.  
Marine  
Science  
Faculty/  
Research

María Vega-Rodríguez  
B.S. Coastal Marine Biology  
University of Puerto Rico,  
Humacao, 2004



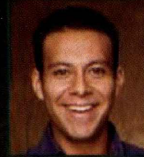
Career Goals:  
Ph.D.  
Electrical  
Engineering  
Industry/  
Research

Justin Boone  
B.S. Electrical Engineering  
Southern A&M University, 2009



Career Goals:  
Ph.D.  
Biomedical  
Engineering  
Industry/  
Research

Vinicio Carias  
B.S. Electrical Engineering  
Northeastern University, 2009



Career Goals:  
Ph.D.  
Applied  
Physics  
Faculty/  
Research

Jorge Contreras  
B.S. Physics  
University of South Florida, 2009



Career Goals:  
Ph.D.  
Marine  
Science  
Faculty/  
Research

Adrienne George  
B.S. Natural Resources/  
Environmental Science  
Delaware State University, 2009



Career Goals:  
Ph.D.  
Electrical  
Engineering  
Industry/  
Research

Eric Huey  
B.S. Electrical Engineering  
Southern A&M University, 2009



Career Goals:  
Ph.D.  
Engineering  
Science  
Industry/  
Research

Alisha Peterson  
B.S. Chemistry  
Alabama State University, 2008



Career Goals:  
Ph.D.  
Biomedical  
Engineering  
Industry/  
Research

Francy Sinatra  
B.S. Mechanical Engineering  
University of South Florida, 2009



Career Goals:  
Ph.D.  
Biomedical  
Science  
Faculty/  
Research

Kamisha Woolery  
B.S. Biomedical Sciences  
University of South Florida, 2009



Career Goals:  
Ph.D.  
Marine  
Science  
Faculty/  
Research

Natasha Méndez-Ferrer  
B.S. Environmental Technology  
University of Puerto Rico,  
Aguadilla, 2008



Career Goals:  
Ph.D.  
Chemical  
Engineering  
Faculty/  
Research

Peyton Powell  
B.S. Chemical Engineering  
University of South Florida, 2001



Career Goals:  
Ph.D.  
Biomedical  
Sciences  
Faculty/  
Research

Vladimir Valdez  
B.S. Biochemistry  
Florida State University, 2005



Career Goals:  
Ph.D.  
Chemistry  
Faculty/  
Research

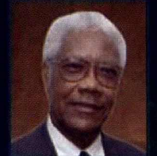
Tarah Wood  
B.S. Chemistry  
Florida A&M University, 2006



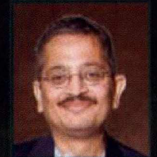
The University of South Florida is the site for the NSF FGLSAMP Bridge to the Doctorate Cohort VII. USF is one of the nation's top 63 public research universities and one of the only 25 public research universities nationwide with very high research activity that is designated as

community engaged by the Carnegie Foundation for the Advancement of Teaching. USF was awarded \$380.4 million in research contracts and grants in FY 2008/2009. Since 2004, a total of 75 students (48 - NSF funded; 27 - USF funded) have been supported within four FGLSAMP Bridge to the Doctorate cohorts (II, III, IV, VII) at USF.

*"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 for Minority Participation (FGLSAMP).



Dr. Ralph Turner  
Director of FGLSAMP



Dr. Shekhar Bhansali  
Program Co-Director  
Professor of Electrical Engineering  
USF College of Engineering

FGLSAMP



For additional program information contact:  
Bernard L. Batson

Director of Diversity and Outreach Programs, USF College of Engineering  
4202 E. Fowler Avenue, ENB 118, Tampa, FL, 33620 o (813) 396-9309 o bbatson@eng.usf.edu







The University of Houston is the 2<sup>nd</sup> most ethnically diverse research university in the country. It represents over 4 million Southeast Texas residents of its true minority-majority population (38.2% Hispanic / Latino, 20% Black / African American). With over 108 baccalaureate, 131 masters, and 53 doctoral programs it is the 23<sup>rd</sup> largest public university in the country.



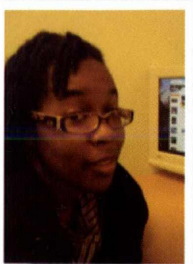
Iríde Vanessa Gramajo-Lazo  
BS: Mathematics  
University of Houston-  
Downtown  
Currently: University of  
Houston Mathematics  
Graduate Program  
Goal: Professoriate

"GETTING TO KNOW AND WORK WITH MY PROFESSORS HAS INSPIRED ME TO WANT TO TEACH AND DO RESEARCH."  
LOPEZ



Chelsea Harris  
BS: Chemistry  
Texas Southern University  
Currently: University of  
Houston Chemistry  
Graduate Program  
Goal: Teaching

"WE'RE THERE TO MAKE SURE THESE FOLKS AND THEIR DETAILS AREN'T OVERLOOKED AND TO GET THEM ACCLIMATED TO THE CULTURE OF SCIENCE AND RESEARCH."  
PETTITT-BD MENTOR



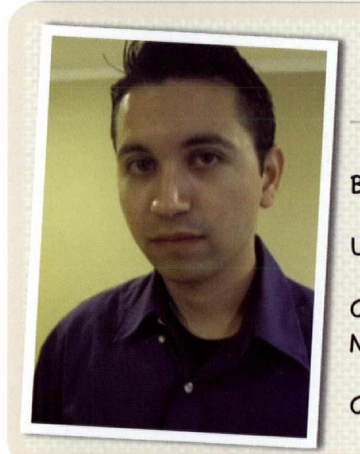
Kaisha Fields  
BS: Physics  
Dillard University  
University of Houston,  
Environmental Engineering  
Masters Program  
Goal: Teaching

"HAVING GRADUATE PROGRAMS THAT BETTER REFLECT THE DIVERSITY OF TEXAS IS AN ESSENTIAL PART OF UH REACHING TIER ONE STATUS" - JOHN L. BEAR DEAN-COLLEGE OF NATURAL SCIENCES AND MATHEMATICS



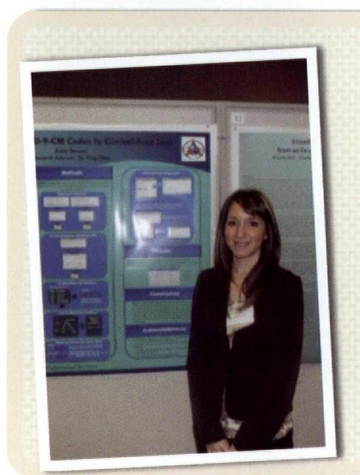
### KIM ANTHONY

BS: BIOLOGY  
LOUISIANA STATE UNIVERSITY  
CURRENTLY: UNIVERSITY OF HOUSTON  
BIOCHEMISTRY PHD PROGRAM  
GOAL: RESEARCH



### JOSE MANUEL LOPEZ

BS: MATHEMATICS  
UNIVERSITY OF UNIVERSITY  
CURRENTLY: UNIVERSITY OF HOUSTON  
MATHEMATICS GRADUATE PROGRAM  
CAREER GOAL: TEACHING & RESEARCH



### ARALY BARRERA

BS: COMPUTER SCIENCE  
UNIVERSITY OF HOUSTON-DOWNTOWN  
CURRENTLY: UNIVERSITY OF HOUSTON  
COMPUTER SCIENCE PHD PROGRAM  
CAREER GOAL: CONSIDERING THE  
PROFESSORATE

214 SCIENCE AND RESEARCH BUILDING 1  
HOUSTON, TX 77204  
713-743-9220  
CASSIDY@UH.EDU  
EXECUTIVE DIRECTOR





# Mississippi - Cohort 7

## LSMAMP 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](mailto:abdul.k.mohamed@jsums.edu)



**Antoinette Anderson**  
Jackson State  
University  
Computer  
Engineering



**Kelsia Blair**  
Alcorn State  
University  
Biology



**Jamila Crowner**  
Alcorn State  
University  
Chemistry



**Crystal Harris**  
Jackson State  
University  
Computer  
Engineering



**Eric Hollman**  
Mississippi Valley  
State University  
Mathematics



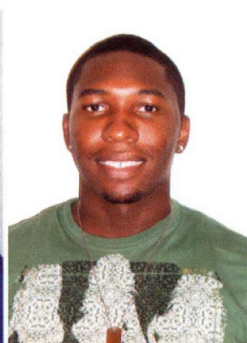
**Kristen Lewis**  
Tougaloo College  
Chemistry



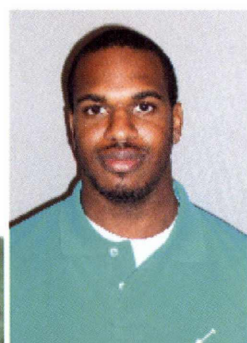
**Ales-cia Malone**  
Jackson State  
University  
Computer  
Engineering



**Jacqueline McComb**  
Alcorn State  
University  
Environmental  
Science



**Terrance Moore**  
Jackson State  
University  
Computer Science



**Paxton Payton**  
Alcorn State  
University  
Environmental  
Science



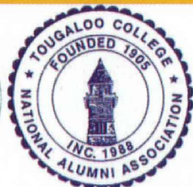
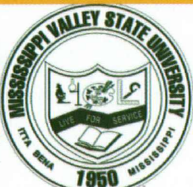
**Nikeya Peay**  
Jackson State  
University  
Computer  
Engineering



**Ashley Sanders**  
University of  
Southern  
Mississippi  
Mathematics

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





# Bridge to the Doctorate Cohort VII

## New Mexico State University



New Mexico State University is a vibrant mix of Southwestern tradition and leading edge technology -- a major research university that is also a regional center of art and cultural activities.

With a multicultural population of more than 23,000 graduate and undergraduate students on the main campus and four branch campuses, NMSU continues to build on its land-grant heritage of teaching, research and service. The university offers 73 bachelor's degree programs, 51 master's degree programs and 24 doctoral programs. The Carnegie Foundation for the Advancement of Teaching has classified NMSU as an RU/H-Research University (high research activity).



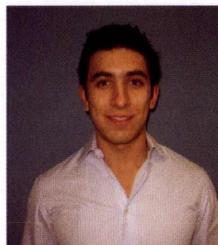
**Emerlene Aragon**  
B.S., Geology, New Mexico State University, 2009. Graduate Major: Geologic Sciences. Career Goal: Geological researcher, with interests in tectonics.



**Amanda Briones**  
B.S., Mathematics, New Mexico State University, 2008. Graduate Major: Mathematics. Career Goal: Professor of Mathematics.



**Jesus Escobar**  
B.S., Industrial Engineering, University of Texas at El Paso, 2008. Graduate Major: Industrial Engineering. Career Goal: Professor of Industrial Engineering, with research interests in biopolymers.



**Luis Medina**  
B.S., Electrical Engineering, New Mexico State University, 2008. Graduate Major: Electrical Engineering. Career Goal: Electrical Engineer, with research interests in electromagnetics.



**Salvador Munoz**  
B.S., Chemistry, University of Texas at El Paso, 2008. Graduate Major: Chemistry. Career Goal: Professor of Chemistry, with research interests in synthetic inorganic chemistry, directed toward mimicking enzymatic reactions.



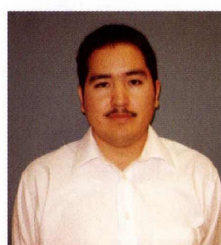
**Ruth Navarette**  
B.S., Biology, New Mexico State University, 2009. Graduate Major: Biology. Career Goal: Clinical Researcher, with research interests in cancer of the breast.



**Stephen Peinado**  
B.S., Agricultural Biology, New Mexico State University, 2009. Graduate Major: Agricultural Biology. Career Goal: Professor of Biology, with research interests in virology.



**Roxanna Reyna-Islas**  
B.S., Agricultural Science, New Mexico State University, 2008. Graduate Major: Agricultural Biology. Career Goal: Professor of Agricultural Biology, with research interests in endophytes.



**Jesus Sigala**  
B.S., Environmental Science, New Mexico State University, 2009. Graduate Major: Plant and Environmental Science. Career Goal: Professor of Environmental Science, with research interests in the use of novel methods to study bacterial diversity.



**Ronald Tremino**  
B.S., Biology/Ecology, New Mexico State University. Graduate Major: Wildlife Science. Career Goal: Professor, with research interests in behavioral ecology and avian ecology and how these relate to conservation issues.



**Natasha Yazzie**  
B.S., Biology, New Mexico State University, 2009. Graduate Major: Biology. Career Goal: Professor of Biology, with research interests in marine organisms.



**Contact Information:**  
Bridge to the Doctorate Coordinator,  
Dr. Imelda Olague, (575) 646-8060  
rolague@nmsu.edu

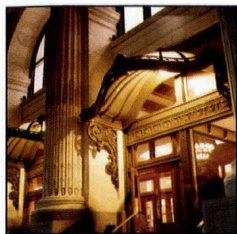
**Dr. Waded Cruzado-Salas,**  
NMSU Provost and Principal Investigator  
for New Mexico Bridge to the Doctorate

*"The Bridge to the Doctorate program has brought to New Mexican students an additional pathway to advance to the Ph.D. With the addition of a seventh cohort, the program continues to broaden the participation of underrepresented groups throughout the state. The program excels in enhancing the synergy between research and education, providing opportunities that diversify the science, mathematics, technology, and engineering workforce, including the professoriate."*

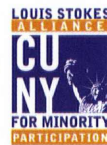




# NEW YORK CITY ALLIANCE



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.



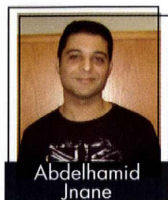
Bridge to the Doctorate Coordinator - Claude Brathwaite - 212-650-8850 • cbrathwaite@ccny.cuny.edu



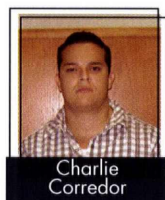
Dr. Neville Parker, NYC LSAMP PI,  
City College • 138th & Convent Ave., Marshak J14, NY, NY 10031  
212-650-8854  
ampcc@ccny.cuny.edu

*"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."*

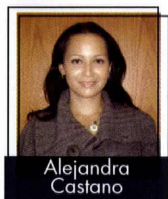
There are more than forty (40) chartered CUNY Institutes or Centers conducting STEM research, with six (6) led by minority faculty members. Bridge to the Doctorate participants will benefit from a rich research environment with superb training facilities, access to distinguished research-active STEM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



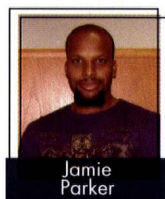
B.S. in Biomedical Engineering  
City College '09  
Graduate Major: Biomedical Engineering



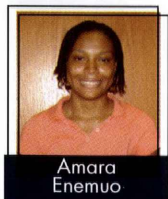
B.E. Chemical Engineering  
City College '09  
Graduate Major: Chemical Engineering



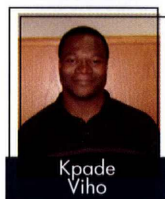
B.S. Chemistry  
Queens College '09  
Graduate Major: Chemistry



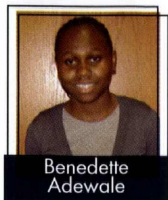
B.S. Biology  
Lehman College '08  
Graduate Major: Biology



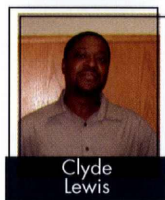
B.E. Computer Engineering  
City College '09  
Graduate Major: Computer Engineering



B.S. Computer Information Systems  
Baruch College '02  
Graduate Major: Computer Information Systems



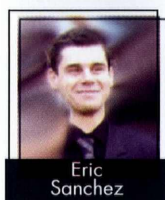
B.S. Biochemistry  
College of Staten Island '09  
Graduate Major: Biochemistry



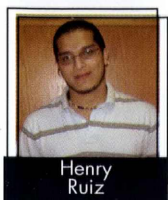
B.S. Mathematics  
Lehman College '09  
Graduate Major: Mathematics



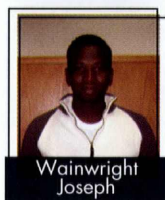
B.S. Mathematics  
Lehman College '09  
Graduate Major: Mathematics  
Ph.D. Institution: CUNY Graduate Center



B.E. Electrical Engineering  
City College '09  
Graduate Major: Electrical Engineering



B.S. Psychology  
Queens College '08  
Graduate Major: Psychology



B.S. Mathematics  
York College '05  
Graduate Major: Mathematics



# Oklahoma LSAMP

## BRIDGE TO THE DOCTORATE

### 2009 COHORT

UNIVERSITY OF OKLAHOMA, 405-325-1069

okamp@okstate.edu, www.ok-lsamp.okstate.edu  
Oklahoma State University, Lead Institution

**JUAN HERRERA**



**BS:** University of Oklahoma  
**Major:** Computer Engineering  
**Career Goal:** To develop novel computer architectures that use less power while increasing reliability & performance.



**LORNE JORDAN**



**BS:** Bowling Green State University  
**Major:** Chemistry & Biochemistry  
**Career Goal:** To become a leader in oncological research and contribute to the effects of the National Center Institute.

**CHRYSTAL MOORE**



**BS:** Northeastern State University  
**Major:** Microbiology  
**Career Goal:** To operate a research lab examining antibiotic resistance in bacteria.

**BRITTANIE ATKINSON**



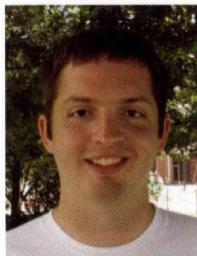
**BS:** Langston University  
**Major:** Biochemistry & Molecular Biology  
**Career Goal:** To perform research investigating mechanisms that are operative in the pathogenesis of autoimmune diseases.

**SHAWNA ONG**



**BS:** University of Oklahoma  
**Major:** Electrical Engineering  
**Career Goal:** To further research experience & impact in the defense I industry with an independent research division.

**CHRIS MACE**



**BS:** Oklahoma State University  
**Major:** Geophysics  
**Career Goal:** To work in governmental research or the petroleum industry.



**RYAN WATLEY**



**BS:** University of Arkansas-Pine Bluff  
**Major:** Chemistry  
**Career Goal:** To work with organic synthesis mechanisms and to impact biological research.

Created by the Oklahoma Territorial Legislature in 1890, the **University of Oklahoma** is a doctoral degree-granting research university serving the educational, cultural, economic and health care needs of the state, region and nation. The Norman campus serves as home to all of the university's academic programs except health-related fields. OU enrolls more than 30,000 students, has more than 2,000 full-time faculty members, and has 20 colleges offering 153 majors at the baccalaureate level, 133 majors at the master's level, 75 majors at the doctoral level, 20 majors at the first professional level, and 18 graduate certificates.



HRD 0929135

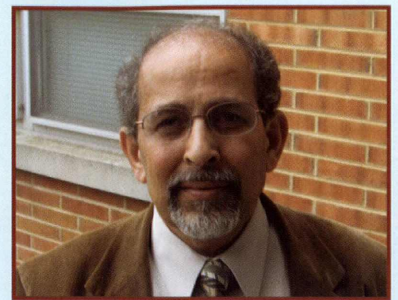




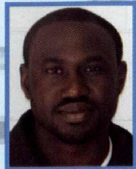
**Stephen R. Cox, MS**  
 Co-PI, Project Director  
 Philadelphia AMP, Drexel University  
 3141 Chestnut St., Bldg 1, Rm. 303  
 Philadelphia, PA 19104  
 (215) 895-6835 | srcox@drexel.edu

**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.



**Mazen Shahin, Ph.D.**  
 Director, Bridge to the Doctorate,  
 LSAMP, and HBCU-UP Programs  
 Professor, Dept. of Mathematics  
 Delaware State University  
 1200 N. DuPont Hwy., Dover, DE 19901  
 (302) 857-7055 | mshahin@desu.edu  
 Research Area: Impulsive  
 Differential Equations



**Sherif Azeez**  
 BS, Chemical Engineering  
 University of Delaware, 2009  
 Graduate Major: Applied Mathematics  
 Career Goal: Ph.D. in Applied Mathematics



**Issac Basaldua**  
 BS, Physics / Engineering Emphasis  
 Delaware State University, 2009  
 Graduate Major: Optics  
 Career Goal: Ph.D. in Optical Sciences



**Shani Samuel**  
 BS, Chemistry  
 Lincoln University, 2009  
 Graduate Major: Chemistry  
 Career Goal: Ph.D. in Chemistry



**Franz Delima**  
 BS, Physics / Engineering Emphasis  
 Delaware State University, 2008  
 Graduate Major: Optics  
 Career Goal: Ph.D. in Optical Sciences



**Nandima Koroma**  
 BS, Mathematics / Mathematics Education  
 Lincoln University of Pennsylvania, 2009  
 Graduate Major: Applied Mathematics  
 Career Goal: Ph.D. in Applied Mathematics



**ArQuetta Grant**  
 BS, Agriculture  
 Delaware State University, 2009  
 Graduate Major: Agriculture with Food Science Option  
 Career Goal: Ph.D. in Agricultural Sciences



**Anthwan Jackson**  
 BS, Biology  
 South Carolina State University, 2001  
 Graduate Major: Neuroscience  
 Career Goal: Ph.D. in Neuroscience



**Mahlet Mersha**  
 BS, Biology  
 University of Texas San Antonio, 2008  
 Graduate Major: Neuroscience  
 Career Goal: Ph.D. in Neuropharmacology



**Tori Owens**  
 BS, Biology  
 University of California Riverside, 2009  
 Graduate Major: Biology  
 Career Goal: Ph.D. Molecular Biology



**James Poland**  
 BS, Chemistry  
 Delaware State University, 2008  
 Graduate Major: Applied Chemistry  
 Career Goal: Ph.D. in Environmental Chemistry



**William Woodruff**  
 BS, Mathematics  
 Morehouse College, 2009  
 Graduate Major: Applied Mathematics  
 Career Goal: Ph.D. in Applied Mathematics



**Rochelle Young**  
 BS, Forensic Biology  
 Delaware State University, 2009  
 Graduate Major: Biology  
 Career Goal: Ph.D. in Molecular Biology



Delaware State University (DSU) is an 1890 land-grant institution, which has evolved into a fully accredited public comprehensive university focused on quality teaching, faculty research involving students, and outreach to underserved populations. Today DSU enrolls a diverse population of 3,500 students, about 10% of whom are graduate students. The Bridge to the Doctorate Program at DSU provides pathway into Ph.D. study at Philadelphia LSAMP Schools (Drexel, NJIT, Temple, UDEL, UPENN, and DSU) or elsewhere. The BD (Cohort 7) program rests on a solid foundation of partnerships, resources, effective practices and experiences.





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

*There is no doubt that the Bridge to the Doctorate Program is significantly contributing to the preparation of the next generation of scientist in Puerto Rico and in the U.S. Mainland increasing the nation's pool of well prepared, competent scientist with diverse views. In August 2009 twelve new fellows (Cohort VII) joined the community of 70 fellows that have received a BD fellowship. We continue to support all areas of scientific research with special emphasis on the emerging fields of nanoscience and nanotechnology."*



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 Ph.D.'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. On the other hand, the UPR School of Engineering is the main and largest school of engineering in Puerto Rico, and ranks 13<sup>th</sup> in undergraduate enrollment among universities in the U.S.; 18<sup>th</sup> in the number of undergraduate degrees awarded, and 3<sup>rd</sup> in the number of degrees awarded to women. Thirty five percent of the Engineering majors are women.

## 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.

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### Milena Bobeá

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Mathematics (2009)  
Graduate Major: Physics  
Career Goal: Obtain a MS in Physics and pursue a Ph.D. while continuing to do research in nanotechnology and functional nanomaterials.



### Gilmarie Santos

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2009)  
Graduate Major: Chemistry  
Career Goal: Obtain a Ph.D. in Analytical Chemistry and continue research in atmospheric science.



### Adriana Rivera

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2009)  
Graduate Major: Physical Chemistry  
Career Goal: Complete my Ph.D. in Material Sciences, pursue a career in the academia and serve as role model for future generation of scientists.



### Carlos Noguera

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry-Biology (2009)  
Graduate Major: Biochemistry  
Career Goal: Obtain my Ph.D. focused on novel clinical treatments to treat HIV disease; continue postdoctoral studies and become a well prepared professor as well as a researcher.



### Jessenia Laguna

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Biology (2009)  
Graduate Major: Neurobiology  
Career Goal: Obtain my Ph.D. and become a professor/researcher in molecular and cellular basis of cognition.



### Cindy Figueroa

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2009)  
Graduate Major: Chemistry  
Career Goal: Obtain my Ph.D. and work in an international setting as a research scientist.



### Gloriell Cardona

Undergraduate Institution: UPR-Cayey  
BS Degree in Mathematics (2009)  
Graduate Major: Applied Mathematics  
Career Goal: Obtain my Ph.D. and become a researcher and professor who motivates students to pursue graduate studies in my field.



### Natalie del Hoyo

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2009)  
Graduate Major: Biochemistry  
Career Goal: Obtain a Ph.D. to become a researcher and professor in the area of ion-channel lipid interactions and ion-channel related disorders.



### Sergio Sierra

Undergraduate Institution: UPR-Mayaguez  
BS Degree in Chemical Engineering (2009)  
Graduate Major: Chemical Engineering  
Career Goal: Obtain a MS degree in the area of functional nanomaterials and continue graduate studies to obtain a Ph.D. in Chemical/Material Engineering, focusing on nanomaterials characterization.



### Stephanie Montalvo

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Physics (2009)  
Graduate Major: Physics  
Career Goal: Obtain a MS in Physics concentrating in Material Sciences; Obtain a Ph.D. in Aerospace Engineering and perform research combining the two disciplines.



### Sylmar Santos

Undergraduate Institution: UPR-Humacao  
BS Degree in Marine Science (2006)  
Graduate Major: Fresh Water Ecology  
Career Goal: Obtain a Ph.D. and become a researcher in the area of tropical fish ecology and environmental planning.



### Zally Torres

Undergraduate Institution: UPR-Humacao  
BS Degree in Industrial Chemistry (2009)  
Graduate Major: Biochemistry  
Career Goal: Obtain my Ph.D. and become a researcher in the industry or academia.







## State University of New York (SUNY) LSAMP *Bridge to the Doctorate 2009 Cohort at Stony Brook University*

The fourth SUNY LSAMP Bridge to the Doctorate Program has:

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

### **Bridge to the Doctorate Students: History, Current Major and Career Goals**



**Emmanuel Asare**  
B.S. Biology  
Clarkson University 2009  
Genetics  
Professor or Government Researcher



**Anne-Marsha Joseph**  
B.E. Aerospace and Mechanical Engineering  
University at Buffalo  
Mechanical Engineering  
Astronaut/ Researcher for NASA



**Baaba Blankson**  
B.S. Biopsychology  
Stony Brook University 2009  
Biopsychology  
Professor/Medical Researcher



**Marc Laroque**  
B.E. Engineering Science  
Stony Brook University 2009  
Materials Science  
Researcher



**Catherine Depeine**  
B.S. Biological Sciences  
Cornell University 2006  
Ecology and Evolution  
Professor/Researcher: Primate Behavior



**Carla Neckles**  
B.S. Chemistry  
University at Albany 2009  
Chemistry  
Professor/ Researcher



**Jason Hall**  
B.S. Biology  
Stony Brook University 2007  
Pharmacology  
Professor



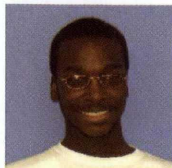
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Stony Brook University 2009  
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Professor/Researcher



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Chemistry  
Professor/ Researcher



**Luisa Torres**  
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Pharmacology  
Industry Researcher

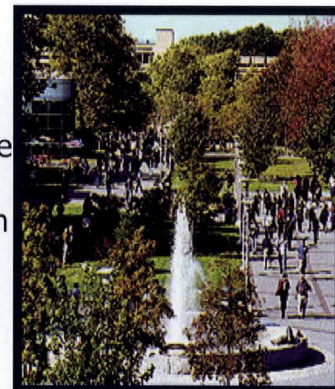


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Computer and Electrical Engineering  
Industry Researcher



**Vladimir Valdez**  
B.S. Electrical Engineering  
Stony Brook University 2009  
Electrical and Computer Engineering  
Researcher

**Stony Brook University**, part of the State University of New York System, is on Long Island, 60 miles from New York City. Stony Brook is recognized as one of the nation's finest public research universities and one of the best science universities globally. It is among the top 50 institutions funded by the National Science Foundation. Stony Brook's graduate programs receive exceptionally high ratings from external evaluation agencies. Stony Brook is deeply committed to the recruitment, retention and success of diverse students in its competitive graduate programs.



**Dr. David Ferguson**  
SUNY LSAMP  
Project Director



**Ms. Lucy Gluck**  
BD Site Coordinator  
M.A.T.  
UREP Education

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# University of Texas System Bridge to the Doctorate 2009-2011



Mohammed Alawneh  
BS 2009, UT El Paso  
Electrical Engineering

"As a BD student I plan on pursuing challenging research that will expand my knowledge base from a practical point of view. As a professional, my goal is to increase that knowledge even further in the field then make my way back to the education system to share this knowledge with the next generation of earnest students." -- MS Electrical Engineering

"I want to obtain a Ph.D in Electrical and Computer Engineering in order to continue with my research as a professor, and apply my knowledge skills to conduct my own research. I also want to encourage future generations to obtain higher degrees in education." -- MS Electrical Engineering



Aryzbe Diaz  
BS 2008, UT El Paso  
Electrical Engineering

"I plan on pursuing a doctoral degree in Quality Engineering, so that I can become a member of academia. My educational endeavors will inspire and cultivate the intellectual prowess of younger generations in order to transform the field of research." -- MS Industrial Engineering



Paola Gandara  
BS 2009, UT El Paso  
Industrial Engineering



J. Jonathan Gamez  
BS 2008, U of Houston  
Mathematics

"I plan to obtain a post-doctoral position where I will continue my research in the field of Applied Mathematics. My ultimate goal is to become a mathematics professor so that I can conduct research in mathematics and most importantly, so that I can teach." -- MS Mathematics



Jennifer Hamlyn  
BS 2009, UT El Paso  
Mathematics

"I intend to pursue a Ph.D. in Mathematics with a specialty in functional analysis and game theory. Upon completion of my degree I plan to obtain a faculty position at a university where I can continue my research and work hard to educate the next generation of mathematicians." -- MS Mathematics



Vincent Gant  
BS 2009, UT E Paso  
Microbiology

"After graduation I plan to pursue a postdoctoral position in a lab whose primary focus is developing vaccines and antiviral drug therapies against RNA viruses. Ultimately, I want to become a research professor at a medical school where I can continue researching vaccines and teaching medical virology." -- Ph.D. Biology

"My plan is to earn a Ph.D and use the knowledge obtained to significantly contribute to the advancement of chemistry. Furthermore, I would like to play a major role in the development of young minds in the process." -- Ph.D. Chemistry



Julio Padilla  
BS 2008, UT El Paso  
Chemistry

"I would like to obtain my PhD in Electrical Engineering where I can apply my accrued academic knowledge in the professional realm, and obtain my license as a Professional Engineer. Ultimately, I want to become a professor and start my own research group in applied electromagnetics." -- MS Electrical Engineering



Cesar Garcia  
BS 2009, UT Brownsville  
Electrical Engineering



Teresa Montoya  
BS 2006, UT El Paso  
Civil Engineering

"I would like to obtain a PhD in Environmental Engineering. After I graduate, I would like to become a professor and continue doing research that will make a positive impact in my community." -- Ph.D. Environmental Science and Engineering



David Roberson  
BS 1999, UT El Paso  
Metallurgical Engineering

"My intent is to have a positive impact on the growth of printed microelectronics technology through the discoveries made during my current research endeavor. My long-term goal is to earn my Ph.D. in Materials Science and Engineering so I may continue research in the academic arena and teach future generations of scientists and engineers." -- Ph.D. Materials Science

"I plan to get my PhD in chemistry, with the hope of one day being able to accomplish my ultimate goal of reaching and influencing young minds as a college professor." -- Ph.D. Chemistry



Nancy Rondeau  
BS 2009, UT El Paso  
Chemistry



The University of Texas at El Paso is a Carnegie Doctoral/Research Intensive University with 20,458 students, including 3,298 graduate students. The university's student population is primarily Hispanic, closely mirroring the demographics of the El Paso region. UTEP began as the Texas School of Mines and Metallurgy, which served as a foundation for its recognized strengths in engineering and science education. UTEP offers over 60 Master's degree programs and 15 doctoral programs, including Ph.D. programs in Environmental Science and Engineering, Materials Science and Engineering, Computer Science, Electrical and Computer Engineering, Civil Engineering, Biology, and Geology.

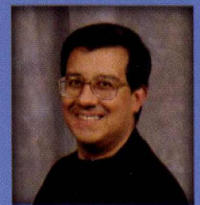
The UT System LSAMP program is very proud to have been selected to host Cohort VII of the Bridge to the Doctorate project. The BD initiative gives us the opportunity to support students who might not consider otherwise pursuing a doctoral degree. It has also given us the opportunity to experiment with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



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**Helmut Knaust, Ph.D.**  
UT System LSAMP  
Co-Principal Investigator  
2009 BD Program  
Director



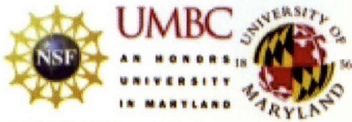
**Benjamin Flores, Ph.D.**  
UT System LSAMP  
Principal Investigator





University of Maryland Baltimore  
County (UMBC)  
2009-2011 BD Site

# BD Fellows



### About UMBC:

UMBC: An Honors University in Maryland (*Carnegie Classification: Doctoral/Research - Extensive*) is a dynamic public research university integrating teaching, research and service to benefit the citizens of Maryland. UMBC emphasizes science, engineering, information technology, human services and public policy at the graduate level. UMBC is one of 22 select institutions, including Yale, Cornell and Duke, to receive a three-year grant from the Council of Graduate Schools (CGS) to support increased completion rates in doctoral programs.

### National Rankings:

#1 Up-and-Coming National University-- *U.S. News & World Report, 2010*

#2 Most Diverse Student Body---  
*Princeton Review, 2009.*

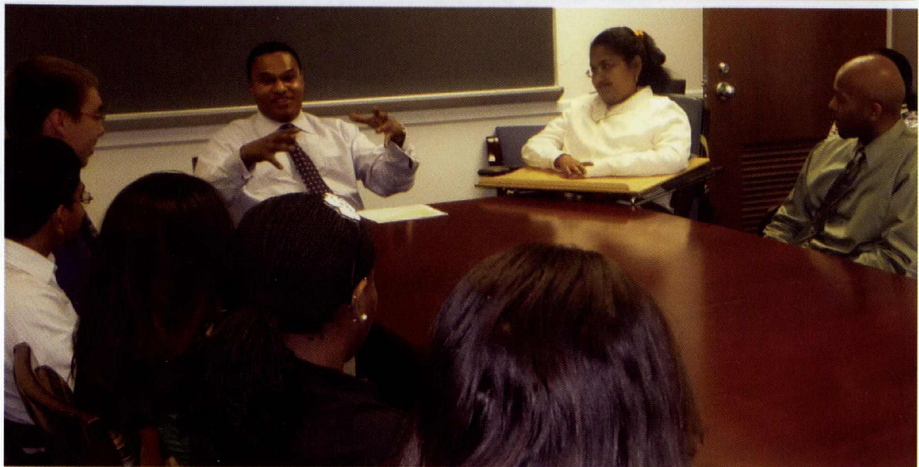


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*Renetta G. Tull, Ph.D.*  
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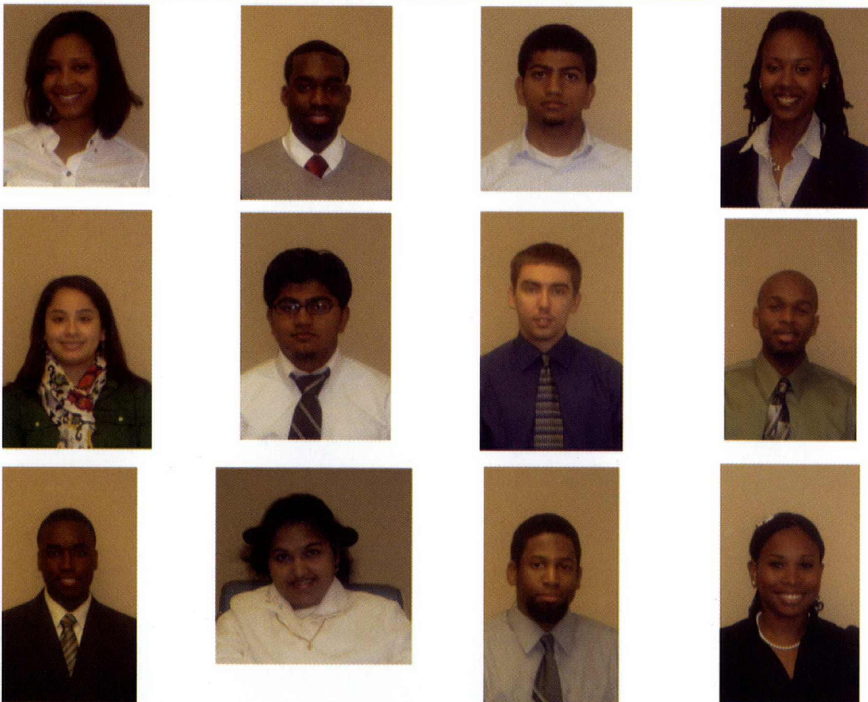
**PI:** Freeman Hrabowski. **Co-PIs:** Cynthia M. Hill, Janet C. Rutledge, Renetta Tull

**BD Coordinator:**  
Tawny L. McManus, M.A.



*The Bridge to the Doctorate Program is a hallmark of excellence on UMBC's campus. Our BDs - future STEM PhDs - will effect positive change in this nation, and beyond. Their accomplishments will change the world.*

-Dr. Freeman H. Hrabowski III, UMBC President; PI, USM LSAMP – BD Program #7 President, Best College Presidents in U.S., *TIME Magazine, 2009.*



### UMBC 2009-2011 BD Fellows\* (Right to Left)

**Row 1:** Brittney Davis – Chemistry (Jackson State), Zamon Granger – Engineering Management (Computer Engineering, Jackson State), Faraz Shaikh – Statistics (UDC), Myciah Wilson – Mechanical Engineering (Biomedical Engineering, NC State)  
**Row 2:** Liana Medina-Rios: Mathematics (Arizona State-Mt. Holyoke), Meraj Shaikh: Mechanical Engineering (UDC), Brice Cannon: Electrical Engineering (Norfolk State), Ozell Sanders: Mechanical Engineering (UMBC)  
**Row 3:** Hervens Jeannis: Systems Engineering (Computer Engineering, Syracuse), Kavita Krishnaswamy: Computer Science (UMBC), Brian White: Computer Science (UMES), Natasha Joseph: Mechanical Engineering (Biomedical Engineering, University of Florida)  
**BD Affiliates(not pictured):** Lillie Thomas - Information Systems (Bowie State), Set Cruz - Computer Science (CCNY), Jessica Steward - Information Systems (Coppin State)

**The BDs are training for STEM Careers in industry and academe.**

*\* Undergraduate majors for BDs are identical to graduate school disciplines unless otherwise noted.*



# lsamp directory

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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.



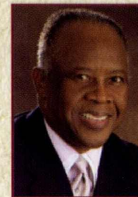
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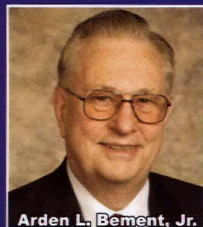
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# NSF Administrators 1991 – 2010: The LSAMP Years

## Directors of the National Science Foundation



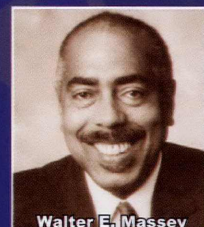
Arden L. Bement, Jr.



Rita R. Colwell



Neal Lane



Walter E. Massey

## Assistant Directors for Education and Human Resources



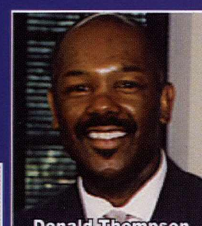
Joan Ferrina-Mundy



Wanda Ward



Cora Marrett



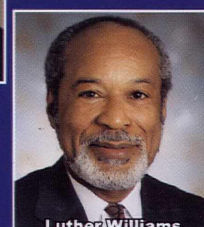
Donald Thompson



Judith Ramaley



Judith Sunley



Luther Williams

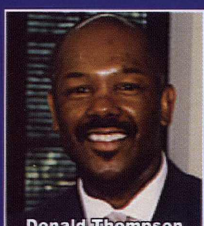
## Division Directors for Education and Human Resources



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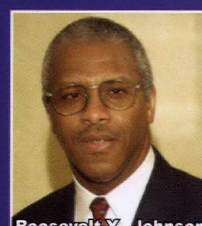
Victor Santiago



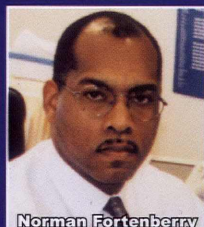
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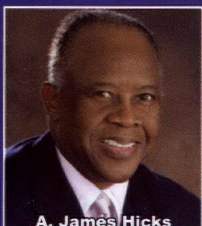


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Joseph Danek

## Program Directors for the Louis Stokes Alliances for Minority Participation



A. James Hicks



William McHenry



# 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.

