

The National Science Foundation

*Louis Stokes Alliance for Minority Participation*



# Bridge to the Doctorate

## RETENTION AND PLACEMENT OF SIGNIFICANT NUMBERS OF UNDERREPRESENTED MINORITY GRADUATES INTO DOCTORAL DEGREE PROGRAMS

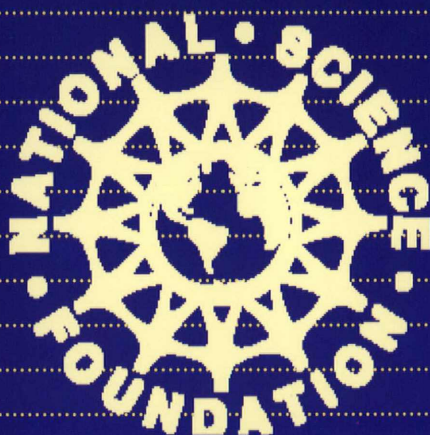
### 2008-2010 Participating Alliances and Sites

**Alabama** (Auburn University), **California** (California State University-Los Angeles), **Colorado** (Colorado State University), **Florida-Georgia** (The University of Florida), **Illinois** (The University of Illinois at Chicago), **Louisiana** (Louisiana State University), **Mississippi** (Jackson State University), **New Mexico** (The University of New Mexico), **New York** (The City University of New York), **North Carolina** (North Carolina State University), **Oklahoma** (Oklahoma State University), **Philadelphia** (Delaware State University), **Puerto Rico** (The University of Puerto Rico at Rio Piedras), **State University of New York** (SUNY-Stony Brook), **Texas** (Texas A&M University), **University System of Maryland** (The University of Maryland-College Park), **University of Texas System** (The University of Texas-El Paso), **Washington/Baltimore/Hampton Roads** (Howard University), **Western Alliance to Expand Student Opportunities** (Arizona State University)



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## The National Science Foundation

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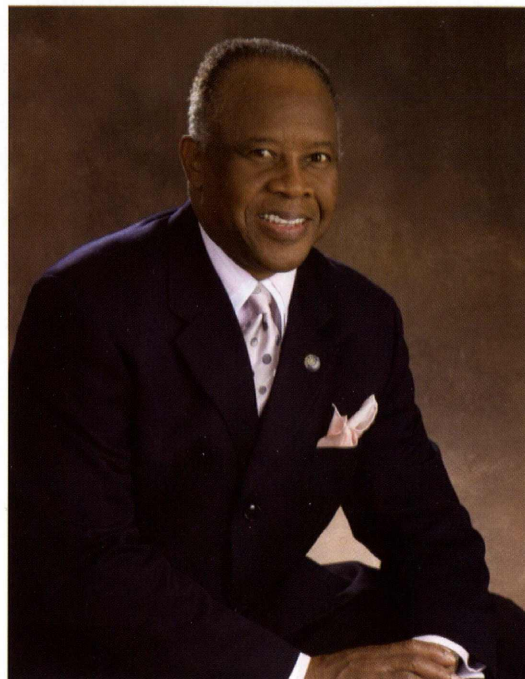
**Dr. A. James Hicks**  
Program Director  
Louis Stokes Alliances  
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## MESSAGE FROM THE LSAMP DIRECTOR

### A. James Hicks, Ph.D.

Thanks to LSAMP's evaluation planning, the Bridge to the Doctorate (BD) Activity is positioned well to undergo a summative examination based on a quasi-experimental research design. In 2002-2003, the BD Activity was initiated and managed through supplements to eligible LSAMP Alliances. Funding covers the first two years of graduate studies for selected LSAMP baccalaureate degree recipients in science, technology, engineering and mathematics (STEM) disciplines. The reasoning that underlies the establishment of the BD is based on sound scientific evidence. A recent evaluation of the first six cohorts of LSAMP baccalaureate holders found that LSAMP graduates were more likely than their national counterpart samples of non-minorities (Whites and Asians), as well as, underrepresented minorities, to cite financial burden as a major deterrent to continue on to graduate education. BD was established to address minority students' hesitancy to enter graduate school and their fear of assuming the additional financial debt associated with graduate education.



To date, BD is in its seventh year and has funded greater than 1100 graduate students at over 40 different graduate sites. The evaluation of LSAMP-BD will assess the activity's success in achieving its stated goals.

BD goals are:

- 1) To increase the number of underrepresented minority students (URMs) with baccalaureate degrees in STEM fields that enter STEM graduate programs;
- 2) To increase the number of URMs who complete graduate degrees in a STEM field; and
- 3) To increase the number of URMs with STEM graduate degrees who enter the STEM workforce.

Despite the fact that it is far too early in the process to reveal definitive results from the evaluation, I report encouraging news from all BD graduate sites that our graduate students are doing well. They are doing very well in their academic pursuits. We await the hard data from the evaluation. Our readers are encouraged to enjoy these pages and know that academic help for our nation is just around the corner in the LSAMP-BD Activity.



# THE EVALUATION OF THE NSF BRIDGE TO THE DOCTORATE INITIATIVE

**Clemencia Cosentino de Cohen**

*Principal Investigator, Bridge to the Doctorate Evaluation*

***What is the BD initiative?*** The Bridge to the Doctorate (BD) initiative is a component of the Louis Stokes Alliance for Minority Participation (LSAMP) Program created to address the long-term goal of increasing the number of students successfully completing science, technology, engineering and mathematics (STEM) doctoral degrees and entering the workforce in these fields. BD extends the reach of its parent program, LSAMP, which aims to increase the completion rates of STEM undergraduate majors and promote their entry into graduate programs in STEM. Specifically, BD provides support for the first two years of graduate studies to students who have received baccalaureate degrees through LSAMP to pursue graduate study in STEM fields. Now in its 6<sup>th</sup> year, BD has funded well over 1,000 students at 45 institutions throughout the nation.

***Why create the BD initiative?*** The reasoning that underlies the establishment of BD is based on sound scientific evidence: a recent evaluation of the first six cohorts of LSAMP baccalaureate degree recipients found that LSAMP graduates were significantly more likely than their national counterpart samples of non-minorities (Whites and Asians) as well as underrepresented minorities, to cite financial burden as a deterrent to continuing on to graduate education. BD was established to address talented minority students' hesitancy to enter graduate school due to fear of assuming the additional financial debt associated with graduate education.

***Why evaluate the BD initiative?*** Congress mandates that the NSF assess the effectiveness of its STEM education programs. Results from program evaluations are therefore used to meet Congressional accountability requirements and to justify yearly requests to Congress for budget renewals or increases. The evaluation of the LSAMP program is an excellent example of the positive influence that evaluations results may have on budgetary allocations. Results are also used by NSF Program officers to guide decision-making.

***What is the design of the evaluation?*** The design of the evaluation of BD is quasi-experimental. It relies on the creation and yearly update of a longitudinal database to track the progress and ultimate outcomes of both BD students (the "treatment") and a matched sample of non-BD students (the "comparison"). In addition, key outcomes will be compared to those of a nationally representative sample of students in order to place findings in a national context. This design, being implemented by the Urban Institute on behalf of the NSF, follows Academic Competitiveness Council (ACC) and Office of Management and Budget (OMB) guidelines regarding rigorous evaluation designs.

***How did NSF, evaluators and institutions prepare for the evaluation of BD?*** In 2005, the Urban Institute administered a short survey to grantee institutions to inquire about data availability. Between 2005 and 2007, the NSF sponsored several presentations and workshops in which the Urban Institute had a chance to share its ideas and plans, and institutional representatives had a chance to provide feedback, make suggestions and flag potential problems. The evaluation design was modified in response to these interactions. For example, at the request of institutions, information on student publications and presentations was excluded from the data collection. Only basic data that all institutions could provide were included in the design. As one PI put it, "only key data points, please."

***Who is participating in the evaluation?*** While monitoring data on BD grantees is collected yearly across all institutions, the evaluation of BD is restricted to the 39 institutions of higher education in cohorts funded between 2003 and 2006. Every institution funded during this period is participating. At each institution, all BD-funded students are included (as the "treatment" cases) and a stratified random sample of non-funded students is also included for comparison (the "comparison" cases).

***What is the status of the BD evaluation?*** The evaluation of BD began in October 2008. Macro International is collecting required data from participating institutions. Many have already completed their entire data submission for this year,

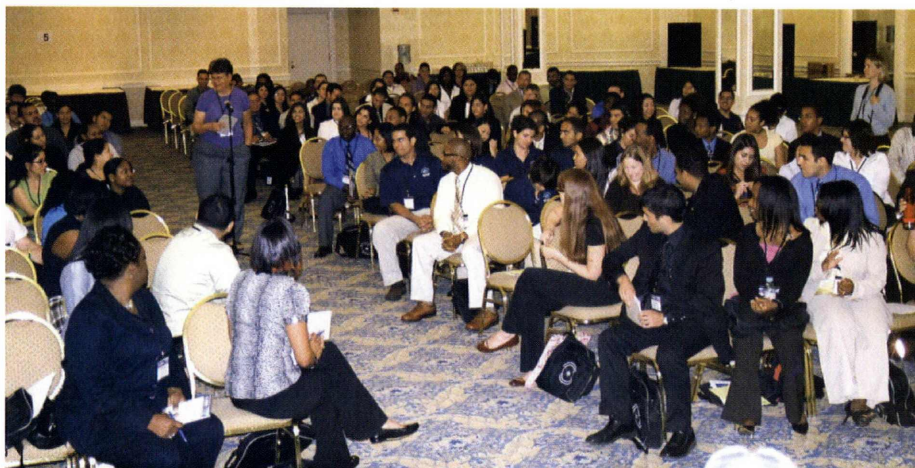
*Continued on page 36*



# Bridge to the Doctorate Joint Annual Meeting (JAM) 2008



Dr. James Wyche addressed BD Students.

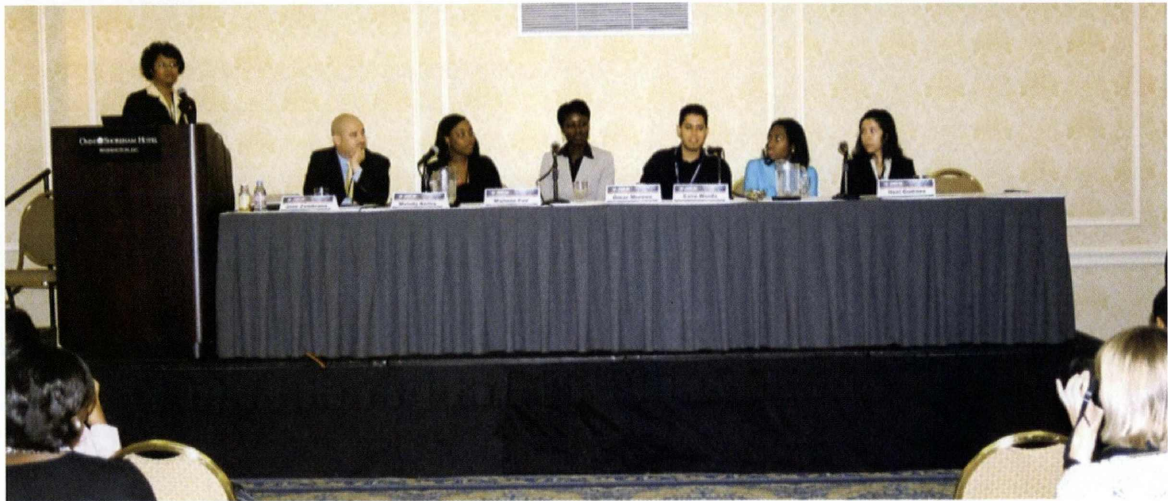


## BD Student Breakout Sessions



From left: Dr. William McHenry, Dr. James Wyche, Dr. Eloy Rodriguez, Dr. Costello Brown, Dr. Jesse Lewis and Dr. Victor Santiago





Sherrie Greene chaired the student panel on best practices.



*2008 JAM Bridge to the Doctorate Attendees*



# 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	74
	The University of Alabama in Huntsville	C2	4	3	3	1	3	14	
	The University of Alabama at Birmingham	C3	1	2	5	1	3	12	
	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	45
	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	
California State University	San Francisco State University	C1, C4	13	5	2	4	3	27	76
	California State University – Los Angeles	C2, C3, C5, C6	19	10	10	8	2	49	
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	62
	University of South Florida	C2, C3, C4	11	6	17	2	0	36	
	University of Florida	C6	5	3	6	1	1	16	
Illinois	Southern Illinois University at Carbondale	C2, C3	12	7	6	0	1	26	60
	University of Illinois at 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	24	21	10	3	7	65	65
New Mexico	New Mexico State University	A	17	14	32	5	0	68	68
New York	The City University of New York	A	19	12	22	10	11	74	74
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	36
	The University of Oklahoma	C3	2	3	5	1	1	12	
Philadelphia	The University of Delaware	C1	2	2	6	0	0	10	71
	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	16	6	0	2	1	25	
	Temple University	C5	4	5	0	1	2	12	
Puerto Rico	University of Puerto Rico at Rio Piedras	C1, C3, C4, C5, C6	20	28	5	5	0	58	70
	University of Puerto Rico at Mayaguez	C2	3	6	3	0	0	12	
State University of New York	SUNY - Stony Brook	C4, C6	11	2	6	2	1	22	34
	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	7	8	15	0	4	34	46
	University of Texas - Pan American	C2	3	0	3	5	1	12	
University System of Maryland	University of Maryland, Baltimore County	C3	0	1	7	0	3	11	35
	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	A	10	4	12	38	0	64	64
<b>Total</b>			<b>337</b>	<b>271</b>	<b>321</b>	<b>129</b>	<b>71</b>	<b>1129</b>	<b>1129</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-'10)

A = All Cohorts



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<b>Texas</b>	<b>Texas A&amp;M University</b>	Dr. Karen Butler-Purry, (979) 847-9048, <a href="mailto:kibutler@ece.tamu.edu">kibutler@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:kharris@pvamu.edu">kharris@pvamu.edu</a> Dr. Danny R. Kelley, (936) 857-4710, <a href="mailto:danny_kelley@pvamu.edu">danny_kelley@pvamu.edu</a>	C3
<b>University of Texas System</b>	<b>The University of Texas, El Paso</b>	Dr. Benjamin Flores, (915) 747-6961, <a href="mailto:flores@ece.utep.edu">flores@ece.utep.edu</a> Ms. Ariana Arciero, (915) 747-6961, <a href="mailto:avarcier@utep.edu">avarcier@utep.edu</a>	C1, C3, C6
	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
<b>University System of Maryland</b>	<b>The University of Maryland - College Park</b>	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
	The University of Maryland - Baltimore County	Ms. 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
<b>Washington-Baltimore-Hampton Roads</b>	<b>Howard University</b>	Dr. Clarence Lee, (202) 238-2511, <a href="mailto:cmlee@howard.edu">cmlee@howard.edu</a>	C2, C3, C4, C5, C6
<b>Western Alliance to Expand Student Opportunities</b>	<b>Arizona State University</b>	Dr. Antonio Garcia, (480) 965-8798, <a href="mailto:tony.garcia@asu.edu">tony.garcia@asu.edu</a>	A

**KEY CODES:**

C1=Cohort 1 ('03 - '05)

C2=Cohort 2 ('04 - '06)

C3=Cohort 3 ('05 -'07)

C4=Cohort 4 ('06 - '08)

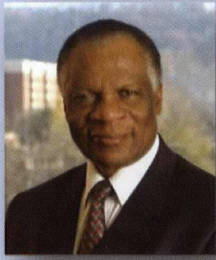
C5=Cohort 5 ('07 - '09)

C6=Cohort 6 ('08 -'10)

A= All Cohorts



# Alabama Bridge to the Doctorate Cohort VI



**Dr. Louis Dale**

*Principal Investigator*

The University of Alabama at Birmingham

*"The Bridge to the Doctorate Program is a critical program in Auburn University's effort to increase the number of underrepresented minority PhDs in science, technology, engineering, and mathematics (STEM) fields. This program attracts students that would not normally consider pursuing the PhD and thus has a significant impact on the nation's goal of increasing the number of PhDs in STEM. Auburn University is proud to host the Alabama LSAMP 2008-2010 Bridge to the Doctorate cohort."*



**Dr. Overtoun Jenda**

*Site Coordinator*

Auburn University

**2008-2010**

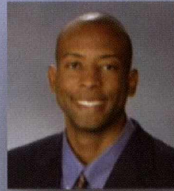
**Bridge to the Doctorate Site**

**Auburn University**



**Curtis Cain**

B.S., Information Systems Engineering, Johnson C. Smith University, 2008, Graduate Major: Computer Science and Software Engineering - *"To pursue a career in software engineering and to show to minorities that a doctoral degree is not elusive and can be obtained."*



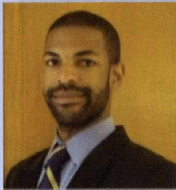
**Colby Hunter**

B.S., Biology, New Mexico State University, 2008, Graduate Major: Microbiology - *"My ambition is to perform research on infectious diseases at the CDC. I also would like to inspire young people to take an interest in science."*



**Cadavious Jones**

B.S., Mathematics, Alabama State University, 2006, Graduate Major: Mathematics - *"I plan to teach at the collegiate level to expand the minds of young people in my community as well as starting my finance company."*



**Jarrett Chapman**

B.S., Industrial and Systems Engineering, North Carolina A & T State University, 2005, Graduate Major: Industrial and Systems Engineering - *"I would like to pursue a career in both industry and eventually teaching."*



**David Laurencio**

B.S., Wildlife and Fisheries Sciences, Texas A & M University, 2001, Graduate Major: Biological Sciences - *"I plan to acquire a position at the collegiate level where I can teach and mentor our next generation of biologists, as well as continue my research."*



**Timmy Sanders**

B.S., Mathematics, Alabama State University, 2008, Graduate Major: Mathematics - *"To obtain a terminal degree and pursue a career in mathematics & statistics."*



**Michael Grady**

B.S., Electrical Engineering, Auburn University, 2008, Graduate Major: Electrical Engineering - *"To expand the research field of electromagnetics with a career in teaching and research."*



**Cheryl Milton**

B.S., Mathematics, Florida A & M University, 2008, Graduate Major: Mathematics - *"I plan to become a researcher in the area of computational science and teach at the collegiate level."*



**Derek Simon**

B.S., Mathematics, Alabama State University, 2003, Graduate Major: Mathematics - *"To further increase my knowledge and love for research in the area of mathematics."*



**Lenese Grant**

B.S., Food Science & Technology, Alabama A & M University, 2008, Graduate Major: Nutrition and Food Science - *"I aspire to pursue a career in academia helping students mature professionally and academically."*



**James Morris-King**

B.S., Computer Science, Rensselaer Polytechnic Institute, 2008, Graduate Major: Computer Science - *"I plan to obtain a PhD in the computer science specializing in research related to artificial intelligence."*



**Kevin Simmons**

B.S., Computer Science, Alabama A & M University, 2008, Graduate Major: Computer Science - *"To conduct research after my obtainment of a PhD with NASA or the Redstone Arsenal."*



**Brittany Green**

B.S., Mathematics, Birmingham-Southern College, 2008, Graduate Major: Industrial and Systems Engineering - *"I plan to become a college professor in order to further the excitement and importance of Industrial Engineering."*



**Clarisa Williams**

B.S., Mathematics, California State University - Dominguez Hills, 1999, Graduate Major: Statistics - *"I plan to pursue a career in industry researching cancer either as a bio-statistician or by modeling cancer patterns. However, I may pursue my original goal of teaching at the collegiate level at a liberal arts institution to try to produce more mathematicians."*

Auburn University is a comprehensive land, space, and applied sciences. It has a long tradition of awarding its first undergraduate degree in 1860 and its first graduate degree in 1870. The main campus had an enrollment during fall of 2007 of 24,137. Auburn University offers degrees in 13 schools and colleges at the undergraduate, graduate and professional levels. More than 1,100 graduate faculty members have terminal degrees from 150 universities. More than 90 buildings occupy a campus of southern charm graced with stately trees and abundant flowers. Auburn University has developed into one of the largest universities in the South, remaining in the educational forefront with its traditional blend of arts and applied science, and changing with the needs of today while living with a respect for the traditions and spirit that are Auburn.

and sea grant research institution blending arts and graduate education, demic excellence and graduate education,



# CALIFORNIA STATE UNIVERSITY LSAMP PROGRAM



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

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 78 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 (RU/VH) Institutions. California State University, Los Angeles serves as the site for the 2008-2010 BD-VI Cohort activities and provides the opportunity for collaboration of LSAMP with Cal State LA's Minority Opportunities in Research (MORE) Programs and its CEA-CREST Program, the two most successful research participation-based STEM student development programs on the campus.

## CSU-LSAMP Bridge to the Doctorate VI California State University, Los Angeles Academic Year 2008-2009



**Corey Baker**  
BS, Computer Engineering  
San Jose State University  
**Current:** Electrical Engineering  
**Career Goal:** PhD—Research



**Rosa Padilla**  
BS, Biological Systems Engineering  
University of California, Davis  
**Current:** Mechanical Engineering  
**Career Goal:** PhD—Faculty



**Eric Cabral**  
BS, Electrical Engineering  
California State Polytechnic  
University, Pomona  
**Current:** Electrical Engineering  
**Career Goal:** PhD—Research



**Michelle Palacios**  
BS, Microbiology  
University of California, Los Angeles  
**Current:** Biological Sciences  
**Career Goal:** PhD—Research



**Deisy Contreras**  
BS, Microbiology  
California State University,  
Los Angeles  
**Current:** Microbiology  
**Career Goal:** PhD—Faculty



**Ana Ramirez**  
BA, Psychology  
San Jose State University  
**Current:** Biological Sciences  
**Career Goal:** PhD—Faculty



**Paul Harris**  
BS, Physics  
California State University,  
San Bernardino  
**Current:** Physics  
**Career Goal:** PhD—Faculty



**Danilo Santamaria**  
BS, Biomedical Engineering  
University of California, Irvine  
**Current:** Mechanical Engineering  
**Career Goal:** PhD—Research



**Eric Lipari**  
BS, Electrical Engineering  
San Jose State University  
**Current:** Mechanical Engineering  
**Career Goal:** PhD—Research



**Henry Valle**  
BS, Biochemistry  
California State University, Long Beach  
**Current:** Chemistry  
**Career Goal:** PhD—Research

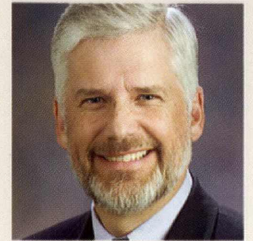


**Erik Pachas**  
BS, Mathematics  
University of California, Irvine  
**Current:** Mathematics  
**Career Goal:** PhD—Faculty



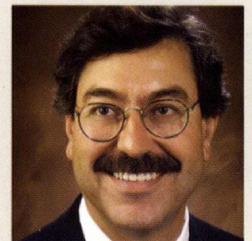
**Yessenia Velazco**  
BS, Microbiology  
California State University,  
Los Angeles  
**Current:** Biological Sciences  
**Career Goal:** PhD—Faculty

## BD-VI Coordinators at Cal State LA



### Carlos Robles

BD-VI Lead Project Director  
Professor of Biology  
Director, CEA-CREST Program  
Ph.D., 1979, Zoology  
University of California, Berkeley  
Phone: (323) 343-2067  
crobles@calstatela.edu



### Carlos Gutierrez

BD-VI Associate Project Director  
Professor of Chemistry  
Director, MORE Programs  
Ph.D., 1975, Synthetic Organic Chemistry  
University of California, Davis  
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cgutier@calstatela.edu



### Margaret Jefferson

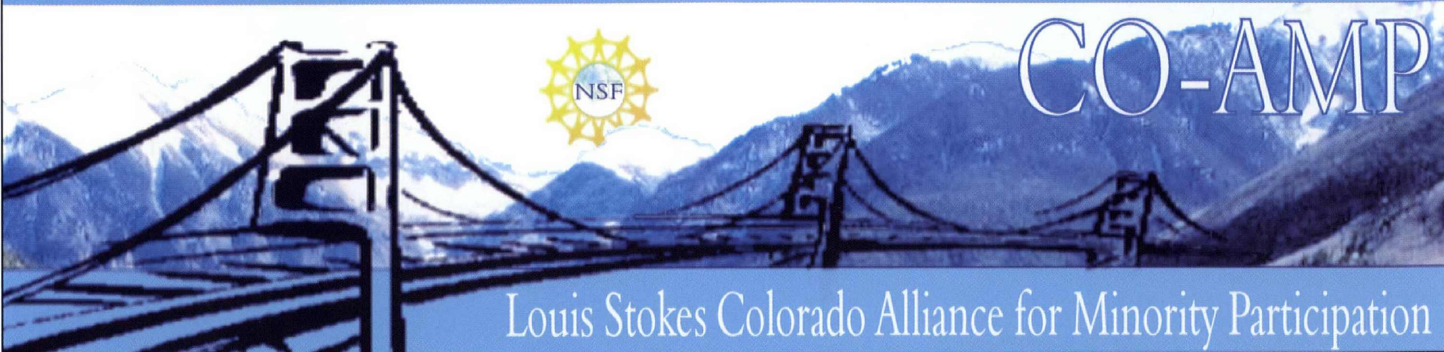
BD-VI Associate Project Director  
Professor of Genetics  
Ph.D., 1977, Genetics  
University of Arizona, Tucson  
(323) 343-2059  
mjjeffer@calstatela.edu

## California State University, Los Angeles

California State University, Los Angeles (Cal State LA), one of the 23 campuses of the California State University system, is located in one of the major centers of minority populations in the United States and serves large numbers of students from these communities. Cal State LA has a deep, historically-based institutional commitment to advancing diversity in higher education, in general, and in STEM, in particular. Cal State LA was the first university in California to qualify for full membership in the Hispanic Association of Colleges and Universities, and is federally designated as a Hispanic Serving Institution. Cal State LA has played a significant role in the development of minority science education efforts throughout California. The campus has also been a part of the CSU-LSAMP Alliance since its inception in 1994 and has served with distinction as the graduate institutional site for four of CSU-LSAMP's BD programs.







**Gladys Bonilla**  
Dept. Geosciences  
B.S. Physics 2008  
University of Puerto Rico- Río Piedras  
Career goal: Professor/Geology-Geophysics



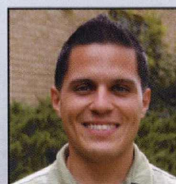
**Katherine Davila Olmo**  
Dept. Geosciences  
B.S. Environmental Sciences 2008  
University of Puerto Rico- Río Piedras  
Career goal: Professor/Researcher



**Vanessa Enriquez**  
Dept. Cell & Molecular Biology  
B.S. Zoology 2007  
Southern Illinois University-Carbondale  
Career goal: Professor

**Colorado State University is a land-grant institution and a Carnegie Doctoral/Research University. It offers doctorate degrees in 8 colleges. Located in a community of 142,000, CSU's enrollment is about 25,000 resident instruction students from every state and more than 85 foreign countries.**

[www.Bridgetothedoc.Colostate.edu](http://www.Bridgetothedoc.Colostate.edu)



**Daniel Feliciano**  
Dept. Biochemistry & Molecular Biology  
B.S. Chemistry 2007  
University of Puerto Rico- Río Piedras  
Career goal: Professor



**Julia Figueroa**  
Dept. Clinical Sciences  
B.S. Zoology 2007  
Colorado State University  
Career goal: Professor/



**Krystle Frahm**  
Dept. Biomedical Sciences  
B.A. Health Psychology 2005  
Texas State University  
Career goal: Professor/



**Katrina Gillette**  
Dept. Soil and Crop Sciences  
B.S. Soil and Crop Sciences 2008  
Colorado State University  
Career goal: Professor and International Research and Development/Biofuels



**Mark Goodwin**  
Dept. Environmental & Radiological Health Sciences (Toxicology)  
B.S. Biochemistry 2008  
Colorado State University  
Career goal: Professor/Leading Researcher/



**Jacqueline Harding**  
Dept. Chemistry  
B.S. Chemistry 2007  
University of Texas at El Paso  
Career goal: Professor



**Brian Leon**  
Dept. Chemistry  
B.S. Chemistry 2008  
University of CA-Irvine  
Career goal: Professor



**Contessa Majors**  
Dept. Cell & Molecular Biology  
B.S. Physics 2007  
Langston University  
Career goal: Professor



**Alejandro Trujillo**  
Dept. Cell & Molecular Biology  
B.S. Biology 2007  
New Mexico State University  
Career goal: Professor



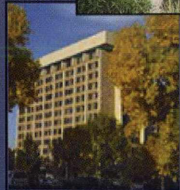
**Dezaray Varland**  
Dept. Cell & Molecular Biology  
B.S. Cell & Molecular Biology 2008  
Ft. Lewis College  
Career goal: Professor



**Lisa Wolfe**  
Dept. Microbiology, Immunology & Pathology  
B.S. Biochemistry 2004  
Colorado State University  
Career goal: Field Applications Scientist specializing in mass spectrometry and proteomics

**Since 1996, CO-AMP has been honored to be a member in the Louis Stokes Alliance for Minority Participation (LS AMP) consortia and a partner in the BD initiative since 2006. CO-AMP is a unique and innovative program because it encourages the talents and skills of underrepresented students and serves as an advocate for their academic success. CO-AMP works collaboratively with other AMP programs to build highly qualified, globally competitive scholars to enter the BD program and be successful role models for other diverse students. CO-AMP is currently establishing an infrastructure throughout Colorado institutions of higher education to support and mentor these potential BD students.**

**Through the BD Program, NSF funding enables AMP students to focus on their studies and motivate other diverse students, thus increasing the educational attainment of underrepresented groups. The BD program is crucial to CO-AMP because it allows students an opportunity to excel in their chosen research fields. CO-AMP is honored and privileged to be part of**



Elaine Green, Ed.D.  
CSU BD Site Coordinator  
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[Elaine.Green@ColoState.edu](mailto:Elaine.Green@ColoState.edu)

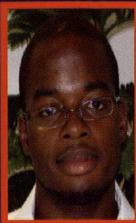


Omnia El-Hakim, PhD, PI and Director  
CO-AMP & Bridge to the Doctorate Program  
Professor of Civil Engineering  
Sage Hall 100C, Colorado State University  
Fort Collins, CO 80523-1879  
(970) 491-2656 or (970) 222-1043 (cell)

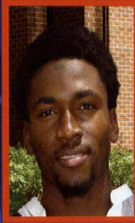




**The Bridge to the Doctorate Program at the University of Florida**



**Michael Asgill**  
 Department: Mechanical & Aerospace Engineering  
 sinspawn@ufl.edu  
 Research Interest: Laser Diagnostics  
 Degree(S) Earned: BS Mechanical Engineering

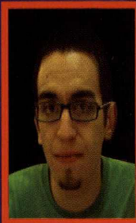


**Jean Elisme**  
 Department: Electrical & Computer Engineering Science  
 jelisme@ufl.edu  
 Research Interest: Electromagnetics  
 Degree(S) Earned: BS Electrical Engineering

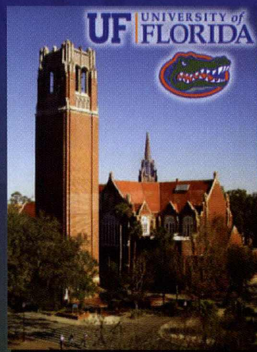


**Wendy Caracmo**  
 Department: Interdisciplinary Program in Biomedical Science  
 wensmile@ufl.edu  
 Research Interest: Cytoplasmic Rods/Rings  
 Degree(S) Earned: BS Microbiology

**Mark Cunningham**  
 Department: Interdisciplinary Program in Biomedical Science  
 mcunnin2@ufl.edu  
 Research Interest: Cancer, diabetes and cardiovascular  
 Degree(S) Earned: BS Biology



**Michael Jay Perez**  
 Department: Physics  
 mjay.perez@ufl.edu  
 Research Interest: Mathematical and Particle Physics  
 Degree(S) Earned: BS Physics with a Mathematics Minor



The University of Florida is one of the premier institutions within the State of Florida University System. This places UF 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:

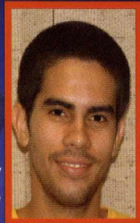
- Stipend of \$30,000 per year for two years plus \$10,500 per year for two years to cover tuition cost
- Seminars to enhance the academic preparations
- Mentoring workshops conducted by professional mentors and peers.
- Peer networking events
- Opportunity to travel to national and regional conferences

**Program Contact Information:**

Director: Ralph Turner, FGLSAMP  
 Ralph.turner@fam.u.edu  
 850-561-2467

Director: Henry Frierson, UF BD  
 hfrierson@rgp.ufl.edu  
 352-392-6444

**Hugo Miranda**  
 Department: Microbiology and cell science  
 manson7@ufl.edu  
 Research Interest:  
 Degree(S) Earned: BS Chemistry & Microbiology and Cell Science



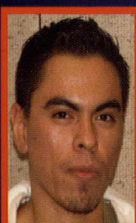
**Raul Chinga**  
 Department: Electrical Engineering  
 ralandrex@gmail.com  
 Research Interest: Wireless Power  
 Degree(S) Earned: Electrical Engineering

**Ira Hill**  
 Department: Mechanical & Aerospace Engineering  
 irajhill@gmail.com  
 Research Interest: Dynamic Systems Control & Tribology  
 Degree(S) Earned: BS Mechanical Engineering



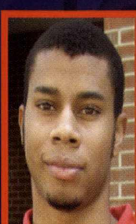
**Alneicia Rumphs**  
 Department: Interdisciplinary Program in Biomedical Science  
 miss.rumphs@ufl.edu  
 Research Interest: decreasing health disparities in minorities  
 Degree(S) Earned: BS Biomedical Science

**Danye West**  
 Department: Interdisciplinary Program in Biomedical Science  
 dmw1985@ufl.edu  
 Research Interest:  
 Degree(S) Earned: BS Chemistry



**Louis M Colon Perez**  
 Department: Physics  
 icolon@ufl.edu  
 Research Interest: Theoretical or Gravitation Physics  
 Degree(S) Earned: BS Physics

**Jacina Redden**  
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 Research Interest: Analytical and Forensic Science  
 Degree(S) Earned: BS Chemistry



**Christian Grant**  
 Department: Computer & Information Science & Engineering  
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 Research Interest: data system, data mining  
 Degree(S) Earned: BS Computer Engineering



**Brian Damit**  
 Department: Environmental Engineering Science  
 bdamit@ufl.edu  
 Research Interest: air filtration/ sampling  
 Degree(S) Earned: BS Environmental Engineering



**Aziza Jefferson**  
 Department: Mathematics  
 azjeffer@gmail.com  
 Research Interest: Combinatorial Mathematics  
 Degree(S) Earned: BA Mathematics

**Daniel Vilceus**  
 Department: Mechanical & Aerospace Engineering  
 daviilceous@ufl.edu  
 Research Interest: Micro electromechanical Systems  
 Degree(S) Earned: BS/MS Dual Degree







# ILLINOIS LOUIS STOKES Alliance For Minority Participation



## ILSAMP Bridge to the Doctorate V Program Participants



**Renaldo Evans**  
BS, Math/Bioengineering, 2008  
Bethune Cookman Univ/U of South FL  
Career Goal: PhD in Bioengineering



**Diego Fernando Freire**  
BS, Computer Engineering, 2008  
University of Illinois at Chicago  
Career Goal: PhD in Computer Engineering



**Crystal Guzman**  
BS, Ecology & Evolution, 2008  
University of Illinois at Chicago  
Career Goal: PhD in Ecology & Evolution



**Crystalann Jones**  
BS, Chemistry, 2008  
Chicago State University  
Career Goal: PhD in Chemistry



**Phillip David McMullen**  
BS, Microbiology/Molecular Biology, 2008  
Miami University at Ohio  
Career Goal: MD/PhD in Microbiology and Molecular Biology



**Geovanni Ojeda-Torres**  
BS, Chemistry, 2008  
University of Puerto Rico at Rio Piedras  
Career Goal: PhD in Chemistry



**Michael Adam Palmer**  
BS, Psychology, 2008  
Texas State University  
Career Goal: PhD in Neuroscience



**Jan Raphael Sagun**  
BS, Electrical Engineering, 2008  
University of Illinois at Chicago  
Career Goal: PhD in Electrical Engineering



**Eliyana Sinkala**  
BS, Bioengineering, 2008  
Vanderbilt University  
Career Goal: PhD in Pharmacology



**Shalina Taylor**  
BS, Chemistry, 2008  
Florida A&M University  
Career Goal: PhD in Pharmacology

### 2008 – 2010 BDP Site – University of Illinois at Chicago



Chicago State University (CSU), a comprehensive state-supported urban academic institution located on the lively south side of Chicago, is the lead campus for the Illinois Branch of the National Louis Stokes Alliance for Minority Participation (LSAMP) program. Illinois LSAMP consists of nine (9) universities, eight (8) regional community colleges and one national laboratory. Together these groups participate in a collaborative effort to provide programs that improve the quality of education for underserved students and to prepare them for graduate school and STEM careers.

The establishment of the NSF Bridge to the Doctorate Program (BDP) provides incentive and access to graduate study for LSAMP graduates. The Illinois LSAMP program has been the recipient of five BD cohorts and has supported in excess of 60 students at the graduate level. Two of these programs were located at Southern Illinois University at Carbondale and three are currently located at the University of Illinois at Chicago (UIC).

UIC is located in the heart of Chicago and reflects the vitality of this world-class city. UIC is a public state supported research university. The largest university in the Chicago area, UIC trains 25,000 students in its 15 colleges. UIC has forged alliances within the colleges and the various departments to provide comprehensive mentoring for the Illinois LSAMP BD students.

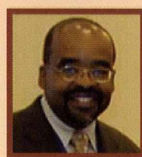
### Illinois LSAMP BDP Management Team



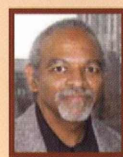
**Dr. Sandra Westbrooks**  
CSU Provost & PI  
Illinois LSAMP



**Dr. Marian Wilson Comer**  
Executive Director  
Illinois LSAMP



**Dr. LeRoy Jones II**  
Project Director & Co-PI  
Illinois LSAMP



**Dr. William Walden**  
BDP PI  
UIC LSAMP BDP



**Ms. Denise Yates**  
BDP Site Coordinator  
UIC LSAMP BDP

For additional information contact: William Walden, Ph.D., Special Assistant to the Provost for Diversity and Professor of Microbiology & Immunology • 2712 UH, 601 S. Morgan St., MC 105, Chicago, IL 60607 • 312-355-1850 • UICBD@uic.edu  
Research Area: Iron Regulatory Proteins of Animal Cells



# Louisiana State University

## LS-LAMP/BDP Bridge to the Doctorate Program

### LS-LAMP/BD Management Team



**Diane Alvarez**  
BS, Physics  
Florida International  
University (2007)  
Career Goals:  
PhD, Physics



**Katrina N. Battle**  
BS, Chemistry  
Jackson State University  
(2008)  
Career Goals:  
PhD, Chemistry



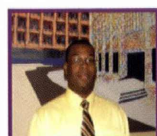
**Raven R. Dora**  
BS, Computer Science  
Southern University and  
A&M College (2000)  
Career Goals:  
PhD, Computer Science



**Derrick D. Goss**  
BS, Mechanical Engineering  
Southern University and  
A&M College (2005)  
Career Goals:  
PhD, Mechanical Engineering



**Tania Hicks**  
BS, Biological Science  
Southern University and  
A&M College (2006)  
Career Goals:  
PhD, Biological Science



**Terrell B. Lekith**  
BS, Chemical Engineering  
Mississippi State University  
(2008)  
Career Goals:  
PhD, Chemical Engineering



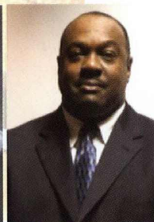
**Su-Seng Pang, PhD**  
PI, LS-LAMP/BDP



**Steve Watkins, PhD**  
Co-PI, LS-LAMP/BDP



**Isiah Warner, PhD**  
Co-PI, LS-LAMP/BDP



**Myron Peters**  
LS-LAMP/BDP Coordinator



**Diola Bagayoko, PhD**  
PI, LS-LAMP/BDP

*Through the Louis Stokes Louisiana Alliance for Minority Participation (LS-LAMP), the Louisiana State University Office of Strategic Initiatives (LSU/OSI) is pleased to announce a Fellowship opportunity available through the "Louis Stokes Louisiana Alliance for Minority Participation -- Bridge to the Doctorate program" (LS-LAMP/BD), an initiative of the National Science Foundation. Dr. Diola Bagayoko at Southern University and A&M College and Dr. Su-Seng Pang at Louisiana State University are the Principal Investigators (PIs) of the LSU/BD, while Drs. Steven F. Watkins and Isiah M. Warner also of Louisiana State University are Co-PIs. This project is a direct and logical extension of LS-LAMP whose primary goal is to increase the participation of under-represented minorities in STEM disciplines and to ease the transition of these graduates into graduate school.*

*LSU/BD offers twelve fellowships at \$30,000/yr for two years, payment of tuition and fees, individualized faculty mentoring and coaching, participation in professional conferences and meetings, links to research and professional opportunities, and enriched academic services and support. The program is also an implementation and institutionalization of the 10-Strand Systemic Mentoring model of LS-LAMP at the graduate level. The resulting reform-imbued and transformative enhancement of graduate education, including teaching, systemic mentoring, and research (TSMR), is expected to have a positive and permanent impact on minority education and beyond it.*

*The pictures of the 12 Fellows, of the 2008-09 cohort, are shown on this page. A separate page provides the names, STEM BS LS-LAMP institutions, and the Ph.D. STEM majors of these Fellows. The LSU/BDP program coordinator can be reached at [mepang@me.lsu.edu](mailto:mepang@me.lsu.edu) or via telephone by dialing (225) 578.5892.*



**Jana R. Robins**  
BS, Biological Science  
Southern University and  
A&M College (2007)  
Career Goals:  
PhD, Biological Science



**Cornelius Toole**  
BS, Computer Science  
Southern University and  
A&M College (2005)  
Career Goals:  
PhD, Computer Science



**Urban Wiggins**  
BS, Mathematics  
Southern University and  
A&M College (2005)  
Career Goals:  
PhD, Computer Science



**Brandon Young**  
BS, Chemistry  
Bowling Green (2007)  
Career Goals:  
PhD, Chemistry



**Brandy Snowdon**  
BS, Chemistry  
Southern University  
and  
A&M College (2006)  
Career Goals:  
PhD, Chemistry



**Brandy M. Tyson**  
BS, Computer Science  
Southern University  
and  
A&M College (2001)  
Career Goals:  
PhD, Computer  
Science

### BDP Contact Information

Su-Seng Pang, Ph.D., P.E., ASME Fellow  
Associate Vice Chancellor for Strategic Initiatives  
Jack Holmes Distinguished Professor  
Mechanical Engineering Department  
Louisiana State University  
Baton Rouge, LA 70803-6413  
Tel: (225) 578-5892  
Fax: (225) 578-5924  
Email: [mepang@me.lsu.edu](mailto:mepang@me.lsu.edu)





# Mississippi - Cohort 6 LSAMP Bridge to the Doctorate Program at Jackson State University



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.



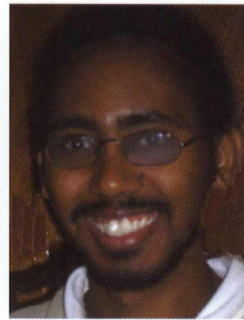
Tancia Boone  
BS:Mathematics, Univ. of Mississippi - '05.  
Career Goal: PhD in Mathematics



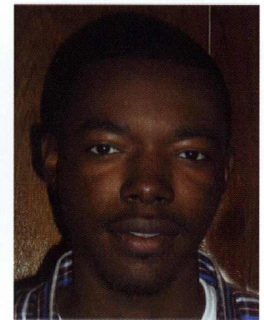
Crystal Boston  
BS:Computer Science Lemoyne-Owen College-'08.  
Career Goal: PhD in Computer Science



Cendrika Dates  
BS - Biology, Alcorn State Univ.-'08.  
Career Goal: PhD in Biology



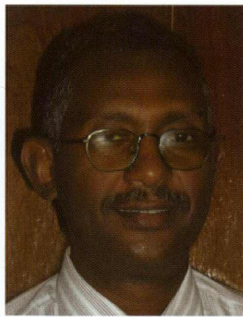
Chantain Greer  
BS:Computer Science, Jackson State Univ.-'06  
Career Goal: PhD in Electrical Engineering



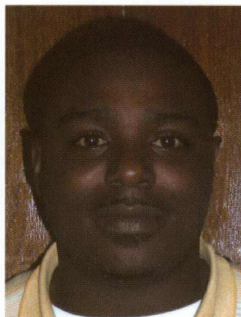
Brandon Hill  
BS:Biology, Jackson State Univ.-'08  
Career Goal: PhD in Biology



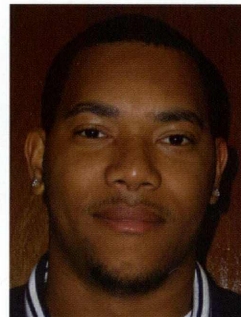
Shantelle Hughes  
BS:Chemistry, Jackson State University-'06  
Career Goal: PhD in Chemistry



Mohamed Idris  
BS:Computer Engineering, Jackson State Univ.-'08  
Career Goal: PhD in Electrical Engineering



Jarvis MsWilliams  
BS:Computer Engineering, Jackson State Univ.-'08  
Career Goal: PhD in Computer Engineering



Carvey Patterson  
BS:Biology Jackson State University-'08  
Career Goal: PhD in Biology



Rosalyn Johnson  
BS:Computer Science, Rust College-'08  
Career Goal: PhD in Computer Science



Tiffani Slaughter  
BS:Chemistry, Jackson State University-'08  
Career Goal: PhD in Chemistry



The Bridge to the Doctorate Program has the potential to impact significantly on the number of underrepresented minority students receiving doctoral degrees in STEM areas. Within five years, the National Science Foundation's Bridge to the Doctorate program could yield a fourfold (400%) increase in the number of under-represented minorities holding Ph.D. degrees. The Louis Stokes Mississippi Alliance for Minority Participation is honored to be a part of this national program to increase the diversity profile of doctoral recipients in STEM programs.

**Dr. Abdul K. A. Mohamed, Project Director**  
Dean Emeritus, College of Science, Engineering & Technology,  
P.O. Box 18119, Jackson, MS 39217 - 601-979-1627 : [abdul.k.mohamed@jsums.edu](mailto:abdul.k.mohamed@jsums.edu)





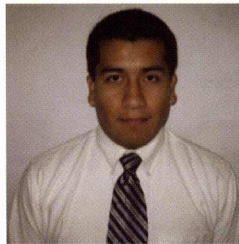
**Brandi R. Cron**

B.S., Biology, University of New Mexico, 2008. Graduate Major: Earth & Planetary Sciences. Career Goal: *Research career in marine geosciences.*



**Akinbayowa O. Falase**

B.S., Chemical Engineering, University of New Mexico, 2005. Graduate Major: Chemical/ Biochemical Engineering. Career Goal: *Professor with research interests in biochemical engineering and applications of biochemical engineering science to energy problems.*



**Nicolaus B. Guerrero**

B.S., Geology, University of Texas at Arlington, 2007. Graduate Major: Earth & Planetary Sciences (admission Fall 2009). Career Goal: *Professor of geology with research interests in structural geology.*



**Maria G. Leyva**

B.S., Chemical Engineering, New Mexico State University, 2008. Graduate Major: Chemical Engineering. Career Goal: *Professor with research interests in nanotechnology.*



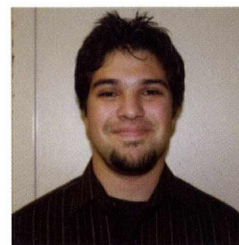
**Angela C. Montoya**

B.S., Physics, University of New Mexico, December 2002. Graduate Major: Civil Engineering. Career Goal: *Research career in structural design.*



**Karen C. Prade**

B.S., Geology, Oklahoma State University, 2008. Graduate Major: Earth & Planetary Sciences. Career Goal: *Research career in volcanology.*



**Manuel J. Rivera**

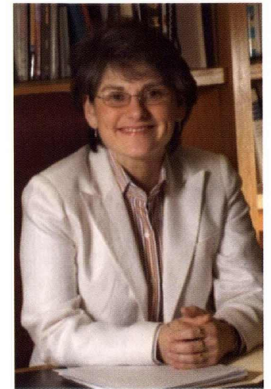
B.S., Electrical Engineering, New Mexico Tech, 2008. Graduate Major: Electrical Engineering. Career Goal: *Research career in electrical engineering.*



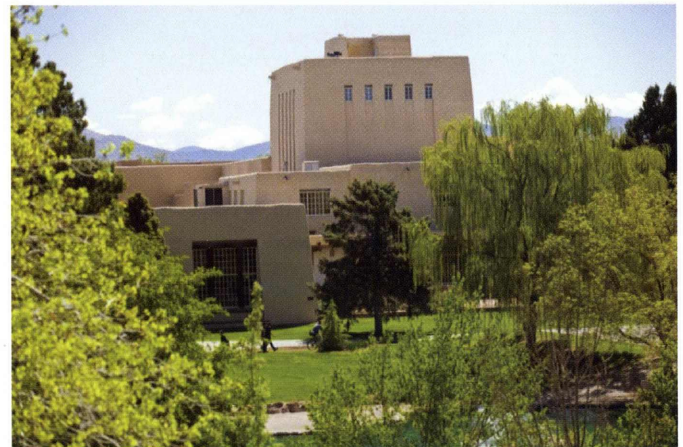
**Anthony S. Torres**

B.S., Civil Engineering, New Mexico State University, 2008. Graduate Major: Civil Engineering. Career Goal: *Professor with research career in structures.*

*"The Bridge to the Doctorate program has brought to New Mexican students an additional pathway to advance to the Ph.D. With six 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 component of the New Mexico Alliance for Minority Participation continues to broaden the scope of educational opportunities across the state."*



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



**The University of New Mexico (UNM),  
Partner Institution in the New Mexico Alliance for Minority  
Participation (New Mexico AMP),**

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 2008, UNM had an enrollment of over 32,000 students. Offering more than 210 degree and certificate programs, UNM has 94 bachelor's degrees, 74 master's degrees 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 fifth.

**BD Coordinator at UNM:**

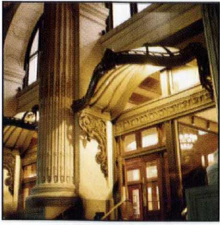
**Dr. Laura J. Crossey**

Professor  
Department of Earth and  
Planetary Sciences  
University of New Mexico  
MSC03 2040  
Albuquerque, NM 87131  
Phone: (505) 277-5349  
E-mail: [lcrossey@unm.edu](mailto:lcrossey@unm.edu)





# 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."*

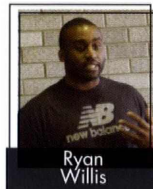
There are more than forty (40) chartered CUNY Institutes or Centers conducting STEM research, with six (6) led by minority faculty members. Bridge to the Doctorate participants will benefit from a rich research environment with superb training facilities, access to distinguished research-active STEM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



B.S. in Biology  
Medgar Evers College '07

Graduate Major: Biology

Career Goal: Ultimate desire is to attend graduate school and complete a Ph.D. degree in Molecular Biotechnology.



B.S. Biochemistry  
Cheyney State University '04

Graduate Major: Biochemistry

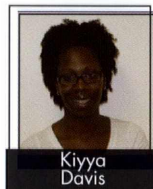
Career Goal: I hope to focus on Education and Research in Biochemistry.



B.S. Geology  
York College '08

Graduate Major: Geology

Career Goal: Obtain a Doctoral degree in Geology and combine my love for Teaching and Geology Research.



B.S. Biology  
Medgar Evers College '09

Graduate Major: Biology

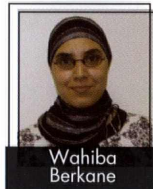
Career Goal: Attend graduate school and pursue a Doctoral degree in Biology.



B.A. Mathematics  
Hunter College '08

Graduate Major: Mathematics

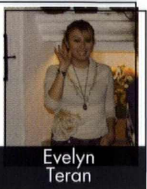
Career Goal: My ultimate goal is to become a Mathematics Professor and combine my interests in Economics, Black Studies and Mathematics. I hope to focus on the Achievement Gap.



B.A. Mathematics  
Hunter College '07

Graduate Major: Mathematics

Career Goal: After completing the joint BA/MA degree at Hunter I hope to complete my Ph.D. degree and add something significant to the field of Science.



B.S. Biology  
Queens College '08

Graduate Major: Biology

Career Goal: Obtain a joint DDS/Ph.D. degree and focus on oral diseases.



B.S. Physics/Science Education  
Chicago State University '05

Graduate Major: Physics/Science Education

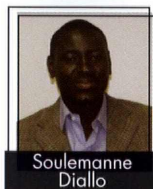
Career Goal: With a long interest in Education, I hope to complete my doctoral degree and continue conducting Research and Teaching.



B.S. Biochemistry  
College of Staten Island '08

Graduate Major: Biochemistry

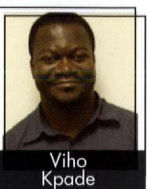
Career Goal: Immediate plans include completing a graduate degree in Biochemistry and obtaining a MD/Ph.D. degree.



B.S. Neuroscience  
College of Staten Island '08

Graduate Major: Neuroscience

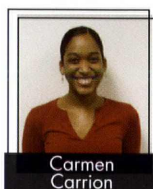
Career Goal: My hope is to enter the Ph.D. program in Neuroscience and continue working as a researcher on completion of the degree.



B.A. Computer Information Systems  
Baruch College '04

Graduate Major: Computer Information Systems

Career Goal: Pursue my doctorate degree, and with all my energy and resources make a difference in this world.



B.S. Neuroscience/Psychology  
Brooklyn College '08

Graduate Major: Neuroscience/Psychology

Career Goal: With perseverance and skills learned eventually obtain a doctoral degree in Neuroscience/Psychology.





**Dr. Alton Thompson, Provost and Vice Chancellor for Academic Affairs, NC-LSAMP PI**

*"The Bridge to the Doctorate Program, funded by the National Science Foundation (NSF) has afforded the North Carolina Louis Stokes Alliance for Minority Participation (NC-LSAMP) the opportunity to provide financial support to twelve graduate students. These students otherwise would have to acquire financing through loans and outside employment. Because of the Bridge to the Doctorate Program these Bridge Scholars can now dedicate their full attention to their pursuit of a graduate degree without the added pressure of indebtedness. The Bridge to the Doctorate program will provide even greater visibility to the existing NC-LSAMP program and continue to bring prestige to the North Carolina Alliance institutions."*

#### Bridge to the Doctorate Institution, North Carolina State University, Cohort IV



With more than 31,000 students and nearly 8,000 faculty and staff, North Carolina State University is a comprehensive university known for its leadership in education and research, and globally recognized for its science, technology, engineering and mathematics leadership. As one of the leading land-grant institutions in the nation, NC State is committed to playing an active and vital role in improving the quality of life for the citizens of North Carolina, the nation and the world. As a major research university, NC State has the people —from undergraduate and graduate students to faculty — and the responsibility to advance knowledge, transfer technology, and discover and develop innovations that solve some of the world's most pressing problems.



#### Bridge to the Doctorate Coordinator



**Dr. Tony L Mitchell**

236 Page Hall  
North Carolina State University  
Raleigh, NC 27695-7904  
919.515.3264  
Tony\_Mitchell@ncsu.edu

NC State University NC LSAMP PI  
Assistant Dean, Engineering Student Services  
Associate Professor, Electrical & Computer Engineering

B.S., Mathematics, North Carolina A&T State University  
M.S., Information & Computer Science, Georgia Institute of Technology  
Ph.D., Electrical & Computer Engineering, North Carolina State University

#### NC-LSAMP Bridge to the Doctorate Fellows, Cohort IV



**Clemontina K. Alexander**

B.S., Mathematics; M.S. Applied Mathematics  
Hampton University, 2008  
Graduate School Major: Statistics  
Career Goal: Industry experience followed by college professorship doing research in probability and statistics



**Stacey R. Randall**

B.S., Industrial Engineering  
North Carolina State University, 2008  
Graduate School Major: Industrial Engineering  
Career Goal: College professor doing research in optimization and analysis



**Vanna N. Gaffney**

B.S., Nuclear Engineering  
South Carolina State University, 2008  
Graduate School Major: Nuclear Engineering  
Career Goals: Become top professional in nuclear industry



**Mychal D. Smith**

B.S., Chemistry  
Fayetteville State University, 2007  
Graduate School Major: Biochemistry  
Career Goal: College professor doing research in protein and related areas



**Adedeji Gbade-Alabi**

B.S., Computer Engineering  
North Carolina State University, 2008  
Graduate School Major: Electrical Engineering  
Career Goal: Work in father's business to improve computer infrastructure in home country of Nigeria



**Karmethia C. Thompson**

B.S., Mathematics  
Bethune-Cookman University, 2008  
Graduate School Major: Applied Mathematics  
Career Goal: Professor doing research in applied mathematics



**Leyda Z. Lugo-Morales**

B.S., Chemistry  
Pontifical Catholic University of Puerto Rico, 2008  
Graduate School Major: Chemistry  
Career Goal: Professor doing research in electro-chemistry



**Pedro A. Torres**

B.S., Mathematics  
University of Puerto Rico-Mayaguez, 2008  
Graduate School Major: Statistics  
Career Goal: Professional statistician or college professor



**Andrew F. Pita**

B.S., Electrical Engineering  
North Carolina State University, 2008  
Graduate School Major: Electrical Engineering  
Career Goals: To own engineering firm supporting professional needs of electrical & computer engineering industry



**Mariann Z. Vazquez Pineiro**

B.S., Civil Engineering  
University of Puerto Rico-Mayaguez, 2006  
Graduate School Major: Environmental Engineering  
Career Goal: Earn Ph.D. and own firm providing expertise in water resources and environmental engineering





**Cornell Thomas, Ed.D.**  
PI / Program Director  
Oklahoma State University  
VP Institutional Diversity  
Career focus: developing programs  
designed to improve access to and

success in higher education  
c.thomas@okstate.edu, 405-744-9154

**Gordon Emslie, Ph.D.**  
Bridge to the Doctorate Co-PI  
Oklahoma State University  
Dean, Graduate College  
gordon.emslie@okstate.edu  
405-744-6368



# Oklahoma LSAMP

## Bridge to the Doctorate 2008 Cohort



OK-LSAMP, Oklahoma State University, 114 Thatcher Hall, Stillwater, OK 74078  
okamp@okstate.edu, www.ok-lsamp.okstate.edu

### Oklahoma State University

Oklahoma State University is a multi-campus public land grant educational system, founded in 1890, that is dedicated to improving the lives of people in Oklahoma, the nation, and the world through integrated, high-quality teaching, research, and outreach. The instructional mission includes undergraduate, graduate, technical, extension, and continuing education informed by scholarship and research. The research, scholarship, and creative activities promote human and economic development through the expansion of knowledge and its application. OSU can boast: (1) being named as one of the "Best Value" colleges by the *Princeton Review*; (2) a Truman Honor Institution; (3) College of Engineering renowned in the fields of architecture and mechanical engineering; (4) the Center for Health Sciences educates osteopathic physicians, research scientists and other health care professionals with an emphasis on serving rural and under-served Oklahoma; (5) the Forensic Sciences program is one of only eight in the nation accredited by the Forensic Science Education Program Accreditation Commission; (6) the Biomedical Sciences program offers advanced degrees in anatomy, biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology; (7) dedicated to educating students to be life-long learners and ethically prepared to serve and lead in an increasingly complex global society; (8) a leader in research, the Wentz Foundation program offers a unique Undergraduate Research Scholarship that allows students to develop their own projects in university labs; (9) has state-of-the-art research facilities and equipment, along with talented faculty, and (10) awards more degrees to Native Americans than any other institution in the nation.

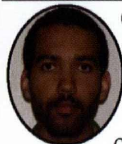


**Kay Porter, Program Manager**  
Oklahoma State University  
BS Trade & Industrial Education  
MS Occupational & Adult Education  
kay.porter@okstate.edu, 405-744-6710

**The Oklahoma Alliance** is excited to have been awarded a third cohort of the Bridge to the Doctorate program. Eight Fellows began their graduate programs Fall 2008 and four are expected to begin Spring 2009. This completes our 12 Fellowship positions. Fellows were selected from a variety of disciplines and backgrounds, and each has unique qualities and aspirations. We look forward to supporting them on the road to the Ph.D.

-Cornell Thomas

### **Marcus Benjamin** - BS,



Chemistry, Jackson State University, 2006  
BD Emphasis: Chemistry  
Career Goals: to teach and conduct research at a

university in collaboration with another institution.

### **Zachary Carpenter** - BS, Electrical



Engineering, University of Tulsa, 2005; MS, Electrical Engineering, University of Tulsa, 2008  
BD Emphasis: Electrical

Engineering

Career Goals: real-world experience as well as university level instruction

### **Scott Fine** - BS, Plant & Soil



Sciences, Oklahoma State University, 2008  
BD Emphasis: Plant Soil Sciences—soil science  
Career Goals: give back to

his home community through government or extension services employment.

### **Erik Gonzales** - BS, Physics, East



Central University, 2007  
BD Emphasis: Physics  
Career Goals: become a physics professor and stay involved with research and

become a mentor to future

students

### **Jonathan Gonzales** - BS, Physics,



East Central University, 2007  
BD Emphasis: Electrical and Computer Engineering  
Career Goals: completely learn and apply how

electrical power systems work

### **Michael Henry** - BS, Management



Information Systems (MIS), Oklahoma State University, 2007  
BD Emphasis: MIS  
Career Goals: conduct

business productivity research, mentor undergraduates and teach

### **Matt Hough** - BS, Plant & Soil



Sciences, Oklahoma State University, 2008  
BD Emphasis: Plant & Soil

Sciences—wetland function  
Career Goals: a position

where he can enjoy the application of his knowledge.

### **Shawna Hughes** - BS, Biology,



South Carolina State University, 2007  
BD Emphasis: Food Sciences  
Career Goals: to conduct

research in the food industry; become involved with college and high school students

### **Minh Ngo** - BS, Biochemistry &



Molecular Biology, Oklahoma State University, 2008  
BD Emphasis: Forensic

Sciences—toxicology  
Career Goals: would like to lead

her own forensic toxicology lab

### **Richard Osei** - BS, Computer



Science/Mathematics, Langston University, 2008  
BD Emphasis: Computer Science  
Career Goals: to become a

computer science teacher or a

CEO for a company

### **Cody Pinkerman** - BS, Aerospace



& Mechanical Engineering, Oklahoma State University, 2008  
BD Emphasis: Mechanical

& Aerospace Engineering  
Career Goals: designing the

next generation of spacecraft

### **C. Doug Yarholar** - BS, Civil



Engineering, Oklahoma State University, 2008  
BD Emphasis: Civil

Engineering  
Career Goals: to own and

operate a consulting firm



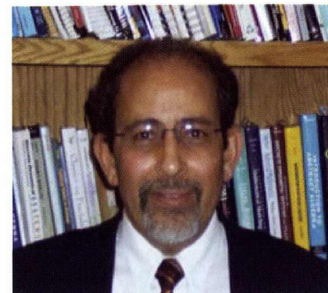
# GREATER PHILADELPHIA REGION LSAMP

## Bridge to the Doctorate Program Participants



**Stephen R. Cox, MS**  
Co-PI, Project Director  
Philadelphia AMP  
Drexel University  
3141 Chestnut St., Bldg 1, Rm. 308  
Philadelphia, PA 19104  
(215) 895-6835, srcox@drexel.edu

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.



**Rohina Amiri Niamat**  
BS - Chemistry  
Delaware State University, 2008  
Graduate Major: Molecular & Cellular Neuroscience  
Career Goal: Ph.D. in Pharmacology



**Annette Gouge**  
BS - Biological Science  
Delaware State University, 2008  
Graduate Major: Molecular and Cellular Neuroscience  
Career Goal: M.D. / Ph.D. in Neuroscience



**Samantha Ash**  
BS - Biology  
Delaware State University, 2008  
Graduate Major: Cellular and Molecular Neuroscience  
Career Goal: Ph.D. in Neuroscience



**Shakera Guess**  
BS - Chemistry, BA - Spanish  
Lincoln University, 2008  
Graduate Major: Applied Chemistry  
Career Goal: M.D. / Ph.D., College Professor, and Founder of  
research center for future scientists



**Marissa G. Brady**  
BS - Biology  
Delaware State University, 2008  
Graduate Major: Natural Resources  
Career Goal: Ph.D. in Marine Science



**Charelle Jeffries**  
BS - Biology  
Delaware State University, 2008  
Graduate Major: Biological Sciences  
Career Goal: Neonatologist, Ph.D. in Physiology



**Amy Collier**  
BS - Biology  
Cheyney University, 2008  
Graduate Major: Cellular and Molecular Neuroscience  
Career Goal: Ph. D. in Neuropharmacology



**Martenya Johnson**  
BA - Biology, minor in Chemistry  
Cheyney University, 2008  
Graduate Major: Cellular and Molecular Neuroscience  
Career Goal: Ph.D. in Neuroscience



**Mastigor Desir**  
BS - Biological Sciences  
Delaware State University, 2006  
Graduate Major: Cell and Molecular Neuroscience  
Career Goal: M.D. / Ph.D. in Neuroscience



**Tiara Turner**  
BS - Mathematics  
University of Maryland Eastern Shore, 2007  
Graduate Major: Applied Mathematics  
Career Goal: Ph.D. in Applied Mathematics



**Janae Dupree**  
BS - Biology  
Delaware State University, 2008  
Graduate Major: Biology  
Career Goal: Ph.D. in Physiology



**Darius Wheeler**  
BS - Mathematics  
Delaware State University, 2008  
Graduate Major: Applied Mathematics  
Career Goal: Ph.D. in Applied Mathematics

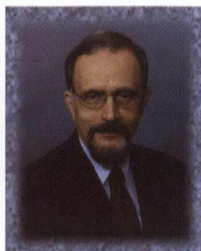


Delaware State University (DSU) is an 1890 land-grant institution, which has evolved into a fully accredited public comprehensive university focused on quality teaching, faculty research involving students, and outreach to underserved populations. Today DSU enrolls a diverse population of 3,500 students, 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 6) program rests on a solid foundation of partnerships, resources, effective practices and experiences.





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



*"In August 2008, the twelve Fellows from Cohort VI joined the community of 58 graduate students that have received a BD fellowship. A survey conducted in 2007 showed that 56 of the 58 Fellows from the first five cohorts are in the PhD pipeline, with a GPA of 3.5 or higher and 62 papers published in peer review journals. As a group they have attended over 400 local, national and international conferences, broadening their academic preparation and establishing a network for potential career opportunities."*

Dr. Manuel Gomez, PI



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. 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.

Address:

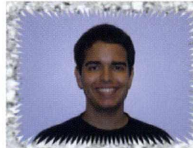
UPR Resource Center for Science and Engineering  
P.O. Box 23334; San Juan, Puerto Rico 00931-3334  
Tel. (787) 765-5170, ext. 2012; FAX (787) 766-1293  
E-mail: j\_figueroa@prlsamp.org



### Cielo Figueroa



Undergraduate Institution: UPR-Mayaguez  
BS Degree in Biology (2008)  
Graduate Major: Zoology and Ecology  
Career Goal: Obtain a Ph.D. while engaging in productive research projects, specifically in the conservation of endangered species in Mona Island.



### Edgard Almodovar

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Mathematics (2008)  
Graduate Major: Applied Mathematics  
Career Goal: Become a statistician with a focus on Biology and able to explain natural phenomena through use of mathematical and statistical models.

### Sonia Aviles

Undergraduate Institution: UPR-Mayaguez  
BS Degree in Chemical Engineering (2008)  
Graduate Major: Chemical Engineering  
Career Goal: Complete my Ph.D. with specialization in Rheology of Nanocomposites and continue post graduate studies in the area of Transport Phenomena.



### Rita Caceres

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Biology (2008)  
Graduate Major: Ecology  
Career Goal: Obtain my Ph.D. and become a faculty member at a higher education institution, as well as getting involved in outreach programs for high school students.



### Jennifer Carpena



Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Physics (2008)  
Graduate Major: Chemical Physics  
Career Goal: Obtain my Ph.D. and become a professor/researcher in material science and contribute solutions to energy production and efficiency. Would like to be an astronaut.



### Yamixa Delgado

Undergraduate Institution: UPR-Humacao  
BS Degree in Industrial Chemistry (2007)  
Graduate Major: Biochemistry  
Career Goal: Obtain my Ph.D. and become a specialist in enzymatic catalysis. Seek a position in the pharmaceutical industry.

### Diana Delgado

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Biology (2008)  
Graduate Major: Biology  
Career Goal: Obtain my Ph.D. in Biology focusing in Ecology and pursue a post-doctoral position, and secure a position as a professor and a researcher.



### Haydee Guzman

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Mathematics (2007)  
Graduate Major: Pure Mathematics  
Career Goal: Obtain a Ph.D. to become a successful and outstanding number theorist, with the goal of becoming a college professor in this area.



### Maria Ocasio



Undergraduate Institution: UPR-Humacao  
BS Degree in Coastal Marine Biology (2007)  
Graduate Major: Biology  
Career Goal: Obtain a Ph.D. and continue post-doctoral studies, with the goal of becoming a professor and researcher. I would like to reach students and motivate them to do research on any aspects of nature.



### Nelson Rivera

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2008)  
Graduate Major: Analytical Chemistry  
Career Goal: Obtain a Ph.D. in Analytical Chemistry, with the goal of seeking a position in the Federal Government, as well as teach in a post secondary institution.

### Kennett Rivero

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2007)  
Graduate Major: Analytical Chemistry  
Career Goal: Obtain a Ph.D. and do research in a R&D lab in the pharmaceutical industry. Would also like to have a research group at the academic level to contribute to the growth of the scientific knowledge of our society.



### Diana Silva

Undergraduate Institution: UPR-Rio Piedras  
BS Degree in Chemistry (2008)  
Graduate Major: Chemistry  
Career Goal: Obtain my MS degree in Chemistry and conduct research in a university or in industry.







## State University of New York (SUNY) LSAMP *Bridge to the Doctorate 2008–2009 Cohort at Stony Brook University*

The third SUNY LSAMP Bridge to the Doctorate took place this year at the Stony Brook campus. The 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.

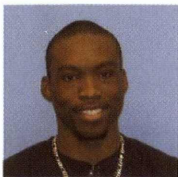
### Bridge to the Doctorate Students: History, Current Major and Career Goals



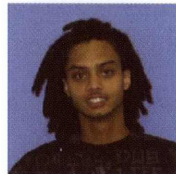
**Stacy Cobb**  
B.S. Mathematics  
Savannah State University 2008  
Applied Mathematics and Statistics  
Statistician



**Joseph Noel**  
B.S. Psychology  
CUNY City College 2006  
Biopsychology  
Researcher



**De'Rael Darling**  
B.S. Computer Science Technology  
Savannah State University 2008  
Computer Science  
Professor



**Yannick Rigg**  
B.S. Chemistry  
Stony Brook University 2008  
Marine and Atmospheric Sciences  
Industrial Researcher



**Chrisnel Lamy**  
B.S. Applied Mathematics  
Stony Brook University 2008  
Applied Mathematics and Statistics  
Professor/Researcher



**Alexis Santana**  
B.S. Cell and Molecular Biology  
SUNY New Paltz 2008  
Microbiology  
Professor



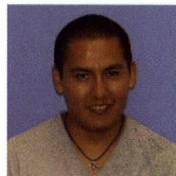
**Yesenia Miranda**  
B.E. Chemical Engineering  
Columbia University 2007  
Biomedical Engineering  
Professor



**Cindy Thomas**  
B. S. Biology  
Stony Brook University 2008  
Genetics  
Government Researcher



**Javier Monzon**  
B.S. Biology  
CUNY Queens College 2004  
Professor/ Researcher  
Wildlife Biology



**Gustavo Tinta**  
B.A. Art  
CUNY City College 2008  
Physiology and Biophysics  
Researcher

**Stony Brook University**, part of the State University of New York, 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

345a Harriman Hall, Stony Brook University  
Stony Brook, New York 11794-3760  
631-632-9988 Lucille.Gluck@Stonybrook.edu



# LSAMP & P Texas A&M University System Bridge to the Doctorate Cohort V



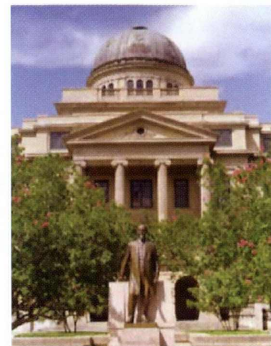
**Dr. Karan L. Watson - Principal Investigator**  
**Dean of Faculties & Associate Provost, TAMU**

"Excellence, leadership and diversity are goals common to the Texas A&M University mission and to the Bridges 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 completion, and preparation for leadership, in academic and in industry."



**Shannon D. Walton**  
TAMUS LSAMP, Associate Director  
218 Wisenbaker Engr Center (WERC)  
3405 TAMU  
College Station, TX 77843-3405  
(979) 862-4315  
Ph.D. Candidate,  
Interdisciplinary Engineering  
Area: Engineering Education  
[www.tamuksamp.org](http://www.tamuksamp.org)

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 2008-2009 Bridge to the Doctorate program for TAMUS LSAMP, Texas A&M 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.



**Kevin Gagnon**  
BS - Chemistry  
Worcester Polytechnic Institute  
  
Graduate Major: Chemistry  
Goals: To obtain my Ph.D. and move on to industry, eventually finding myself in academia



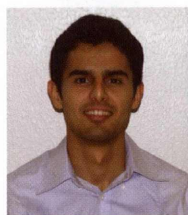
**Roberto Gamez**  
BS - Chemistry  
University of Texas, Pan America  
  
Graduate Major: Chemistry  
Goals: After obtaining my Ph.D., I hope to perform R&D in industry and eventually work in academia



**Tanya Garcia**  
BS - Mathematics  
University of California, Irvine  
  
Graduate Major: Statistics  
Goals: Professorship in Statistics where I can perform research in biostatistics and semiparametrics



**Casie Hilliard**  
BS - Chemistry  
University of Florida  
  
Graduate Major: Chemistry  
Goals: Obtain a Ph.D. and become an Industrial Chemist (possibly in Germany)



**Rafael Huacuja**  
BS - Chemistry  
Cornell University  
  
Graduate Major: Chemistry  
Goals: Obtain a Ph.D., Post-Doc and Professorship



**Tiffany Kinnibrugh**  
BS - Mathematics  
New Mexico Highlands Univ.  
  
Graduate Major: Chemistry  
Goals: To obtain a Ph.D. in Chemistry and continue to do research either in academia or industry



**Roy Montalvo**  
BS - Physics/Mathematics  
Stony Brook University  
  
Graduate Major: Physics  
Goals: To continue theoretical physics research as a professor at a reputable university



**Michelle Myers**  
BS - Physics and Astronomy  
The Ohio State University  
  
Graduate Major: Electrical Engr.  
Goals: Conduct research at the professional level either through industry or academia



**Jorge Restrepo**  
BS - Chemistry  
Florida International University  
  
Graduate Major: Chemistry  
Goals: Obtain a post-doc overseas and then work in research in the pharmaceutical industry



**Jennifer Rolfe**  
BS - Mathematics  
University of Nevada, Las Vegas  
  
Graduate Major: Statistics  
Goals: Professorship in Biostatistics where I can collaborate with the medical profession on the fight against Multiple Sclerosis



**Francisco Sanchez**  
BS - Mathematics  
Texas State University  
  
Graduate Major: Mathematics  
Goals: Obtain a Ph.D. in Biological Mathematics, then enter academia to conduct research in biological models



**Karen Triff**  
BS - Biological Sciences  
Florida International University  
  
Graduate Major: Biology  
Goals: To obtain my Ph.D. and work in cancer research



# 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.



**Adedayo Adeniran**  
BS Chemical Engineering 2008  
University of Maryland, College Park  
**Major:** Chemical Engineering  
**Career:** To teach and to develop synthetic tissues for biomedical applications.



**Time Aigbe**  
BS Mechanical Engineering 2008  
University of Maryland, College Park  
**Major:** Mechanical Engineering  
**Career:** To work in industrial engineering and develop manufacturing 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)."*



**Marie Baronette**  
BS Mechanical Engineering 2008  
University of Maryland, Baltimore County  
**Major:** Materials Science Engineering  
**Career:** Currently exploring all future options.



**Floyd Bates II**  
BS Chemistry 2007  
Johnson C. Smith University  
**Major:** Chemistry  
**Career:** To develop new materials and devices for industrial applications.



**Ms. Tamara Hamilton** is the Bridge to the Doctorate Principal Investigator 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.



**Cassandra R. Brown**  
BS Electrical Engineering 2007  
Morgan State University  
**Major:** Electrical Engineering  
**Career:** To obtain a Master's and PhD degree and become self-employed.



**Margaret Brown**  
BS Chemistry 2006  
California State University, Long Beach  
**Major:** Chemistry  
**Career:** To become an organic chemist in a biotech or pharmaceutical division.



**Patrick Sodre Carlos**  
BS Math, Computer Science, and Economics 2003, 2008  
University of Maryland, College Park  
**Major:** Applied Mathematics  
**Career:** To work in research/academics or industry.



**Jeanette Davis**  
BS Marine Science 2004  
Hampton University  
**Major:** Marine Biotechnology  
**Career:** To become an academic professor.



**Nikesha Davis**  
BS General Science 2006  
Spelman College  
**Major:** Aerospace Engineering  
**Career:** To teach, perform research, and own a consulting firm.



**Linmaris Santiago**  
BS Chemical Engineering 2007  
Virginia Tech  
**Major:** Materials Science Engineering  
**Career:** To do research on biomedical and novel material.



**Daniel Serrano**  
BS Biochemistry/Environmental Science 2008  
Virginia Tech  
**Major:** Cell Biology and Molecular Genetics  
**Career:** To develop technology with cellular and molecular phenomena.



**Reuel Smith**  
BS Aerospace Engineering 2005  
University of Maryland, College Park  
**Major:** Mechanical Engineering  
**Career:** To develop new generation space stations and improve man space flight.



# University of Texas System Bridge to the Doctorate 2008-2010

## Christina Alvarado

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

- Ph.D. Chemistry



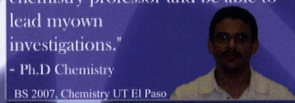
BS 2007, Biology  
UT El Paso



## Andrew Pardo

"I wish to become an organic chemistry professor and be able to lead my own investigations."

- Ph.D. Chemistry

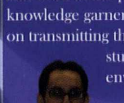


BS 2007, Chemistry UT El Paso

## Nathan Castro

"I would like to take part in civil service duties and work in the private sector. With the knowledge garnered in the private sector I intend on transmitting that gained experience to eager students in an academic environment."

- MS Engineering



BS 2008, Chemistry UT El Paso

"I want to become a successful professor, hopefully at the University of Texas Pan American, with publications that includes a text book with my own work."

- Ph.D. Electrical Engineering



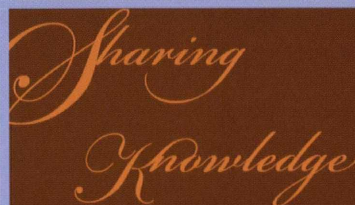
BS 2007, Electrical Engineering UT Pan American

## Matthew Gaynor

"I want to obtain a Ph. D. in Biological Sciences in the field of Pathobiology and become a university professor." - Ph.D. Biology



BS 2008, Biology  
Alice Lloyd College



## Amanda Bastidos

"I want to obtain a Ph. D in Materials Science and Engineering, with a specialization in metallurgy, and apply that knowledge towards work experience with a consulting firm. I plan to eventually enter academia as a professor in a Department of Metallurgical and Materials Engineering."

- MS Materials Science

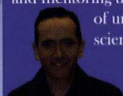


BS 2007, Materials Science UT El Paso

## Jose Herrera

"I plan to pursue my PhD towards a career in Academia to have the opportunity of merging two of my passions: ecological research and mentoring the next generation of under-represented scientists."

- Ph.D. Ecology



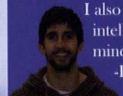
BS 2008, Biology  
UT El Paso

## Zachariah Hildenbrand

"I wish to make significant contributions to the fields of protein science and bioenergetics, in particular the pathways involved in lipid metabolism."

I also plan on involving myself in the intellectual development sharp young minds as a university professor."

-Ph.D. Chemistry



BS 2008, Chemistry UT El Paso

## Johanny Meneses

"I want to obtain a PhD in Pathobiology with an specialty in the area of Molecular Endocrinology. After obtaining my degree I plan on pursuing a career in academia and do cancer research. In addition, I want to encourage young people to pursue higher degrees in education."

- Ph.D. Biology



BS 2007, Biology  
University of Puerto Rico



## Karina Puebla

"I wish to Accomplish Ph.D. in Materials Science and Engineering will prepare me in influencing the development, improvement, and the quality of life in the community. Subsequently by becoming a professor working in research, I will share my knowledge and my experiences in the field with others."

- Ph.D. Materials Science and Engineering



MS 2008, Materials Science  
UT El Paso

## Jesica Navarrete

"I hope to continue my research as a PhD professor and researcher in academia. I hope to expand on my work with isotope signatures and to identify biologic interactions in ocean and land systems. The isotopic ratio that results from bio-geo interactions can be a valuable marker to identify how life has evolved on earth, as well as in extra-terrestrial systems."

- MS Geology



BS 2008, Microbiology UT El Paso

## Sara Villatoro

"I wish to strive to work with enthusiasm, commitment, and loyalty at all times. These ideas have helped me recognize that academia is the area to which I belong and that no matter what obstacles I might encounter in the trail there is a goal to be reached."

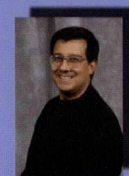
-MS Mechanical Engineering



BS 2008,  
Mechanical Engineering  
UT El Paso

The University of Texas at El Paso is a Carnegie Doctoral/Research Intensive University with 20,154 students including over 3,100 graduate students. The university's student population is primarily Hispanic, closely mirroring the demographics of the El Paso region, which served as a foundation for its recognized strengths in engineering and science. UT El Paso offers over 60 Master's degree programs and 15 doctoral programs, including programs in Environmental Science and Engineering, Materials Science and Engineering, Computer Science, Computer Engineering, Civil Engineering, Biology and Geology.

The UT System LSAMP program is very proud to have been selected once again to receive the Bridge to the Doctorate grant. 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."

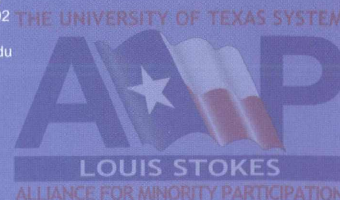


Benjamin Flores, Ph.D.  
UT System LSAMP  
Program Director

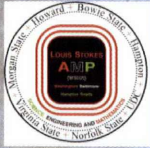


Ariana Arciero

Bridge to the Doctorate Assistant Director  
Master of Public Health  
Research Area in Minority Higher Education  
500 W. University  
El Paso, TX 79902  
(915)7478725  
avarcier@utep.edu







## Washington Baltimore Hampton Roads-Louis Stokes Alliance for Minority Participation (WBHR-LSAMP)



"The WBHR-LSAMP consists of seven partner institutions including Bowie State University, Hampton University, Howard University, Morgan State University, Norfolk State University, the University of the District of Columbia and Virginia State University. The Bridge to the Doctorate program is instrumental in helping the Alliance meet the goal of encouraging students to pursue graduate training in fields where there is still gross under-representation of minorities and especially minority women. We anticipate that a large portion of these BD students will choose research and teaching careers in academe. Furthermore, the BD students will be able to take advantage of the current programs that encourage students to enter the professoriate." Howard University has a faculty of 2,075 and an overall enrollment of approximately 11,000 students of which 3,600 are at graduate level. It is a Research Extensive Institution and a Carnegie Level I Research Institution. Howard is one of two Ph.D. granting institutions in our Alliance and its graduate school offers Doctoral degrees in 16 STEM fields.



**Clarence M. Lee, Ph. D. Biology**  
Co-Principal Investigator  
Howard University  
2225 Georgia Ave, NW Suite 501  
Washington, DC 20059  
cmlee@howard.edu  
(202) 238-2511

**Alvin Thornton, Ph.D**  
Interim Provost & Chief  
Academic Officer  
Principal Investigator  
Howard University



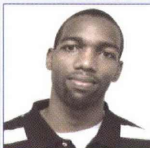
### BRIDGE TO THE DOCTORATE STUDENTS Academic Year 2008-2009



**Anthony Boudreaux**  
Winston Salem State University  
B.S. Chemistry, 2006  
Graduate Major: Chemistry  
Career Goal: To become a re-known scientist and college professor.

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**Montreal McMorris**  
Howard University  
BS, Mechanical Engineering, 2007  
Graduate Major: Mechanical Engineer  
Career Goal: To conduct research in the Nanotechnology area after obtaining my Ph.D.



**Sean Cauley**  
Paine College  
B.S. Mathematics, 2006  
Graduate Major: Mathematics  
Career Goal: To teach college-level mathematics.

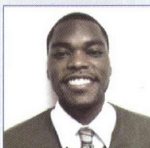
**Damien Myers**  
S.E. Missouri State University  
B.S. S.E. Missouri State University, 2007  
Graduate Major: Genetics  
Career Goal: To pursue a research career in the genetics field.



**Martha Gay**  
Hampton University  
B.S. Biological Sciences, 2004  
Graduate Major: Pharmacology  
Career Goal: To conduct research in medical pharmacology.

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**Jennifer Nash**  
Central State University  
B.S. Mathematics, 2008  
Graduate Major: teach as a college professor and conduct mathematical and computer science research.



**Vincent Hathaway**  
Grambling University  
B.S. Biological Sciences, 2005  
Graduate Major: Genetics  
Career Goal: To conduct research in genetics and and become a university professor.

**Samelia Okpodu**  
Norfolk State University  
B.S. Optical Engineering, 2008  
Graduate Major: Physiology  
Career Goal: To conduct research in neuroscience and ophthalmology.



**Korri Jones**  
Alcorn University  
B.S. Mathematics, 2008  
Graduate Major: Mathematics  
Career Goal: To become a professor of mathematics at the university level.

**Kahli Smith**  
Howard University  
B.S. Chemistry, 2007  
Graduate Major: Pharmacology  
Career Goal: To conduct research related to Alzheimer's disease.



**Chinyere Knight**  
Howard University  
B.S. Chemistry, 2006  
Graduate Major: Microbiology  
Career Goal: To become a Nobel-prize winning research scientist.

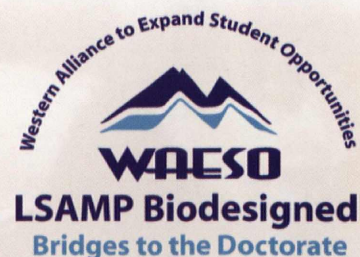
**Bethrice Thompson**  
Jackson State University  
B.S. Chemistry, 2008  
Graduate Major: Biochemistry  
Career Goal: To become a university professor and conduct research in biochemistry.





# Western Alliance to Expand Student Opportunities (WAESO) Biodesigned Bridges to the Doctorate

Fellowship recipients participate in a sequence of supervised program activities under the unifying theme of **Biodesigned 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.



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 six 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**

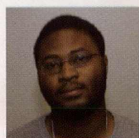


**Dr. Ferran Garcia-Pichel**

**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-Coordinator:** 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 Garcia-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.



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12.

**1.) NAME:** Hector M. Bravo; **Undergraduate Degree:** B.S.E.; **Undergraduate Major:** Aerospace Engineering; **Institution:** Arizona State University; **Year of Degree:** 2008; **Graduate School Major:** Aerospace Engineering; **Career Goal:** Astronaut (1<sup>st</sup> to Mars) **2.) Alhaji Cherif**, B.S.E.; Theoretical and Applied Mechanics/Electrical and Computer Engineering; Cornell University; 2008; Applied Mathematics for Life and Social Sciences; Researcher and Educator (Professor) **3.) Jason C. Colomb**; B.S.E.; Bioengineering; Arizona State University; 2004; Bioengineering; Teaching and Research **4.) Adam K. H. Dengler**; B.S.; Chemical Engineering; University of Washington; 2008; Bioengineering; Nanobiotechnology research scientist **5.) Jasmine L. Duran**; B.S.; Psychology; Arizona State University; 2005; Applied Psychology; Start her own research institute **6.) William Feliciano**; B.S.; Chemistry; Inter American University of Puerto Rico Metropolitan Campus; 2006; Applied Mathematics for Life and Social Sciences; Academia **7.) Romarie Morales**; B.A. and B.S.; Political Science/Economics and Mathematics; Pontifical Catholic University of Puerto Rico at Ponce and University of Puerto Rico at Rio Piedras; 2006 and 2008; Applied Mathematics for Life and Social Sciences; Risk Management at a government agency **8.) Benjamin Moreno**; B.S.; Mathematics; California State Polytechnic University, Pomona; 2008; Applied Mathematics for Life and Social Sciences; research scientist (Ph.D.) **9.) Susan Seal**; B.S./M.A.; Mathematics; Arizona State University; 2009; Applied Mathematics; Research Professor **10.) Shaquetta Tatum**; B.S.; Mathematics; Alabama A&M University; 2007; Applied Mathematics for Life and Social Sciences; Professor and Researcher **11.) Thomas W. Villarreal**; B.S.E.; Aerospace Engineering; Arizona State University; 2003; Aerospace Engineering; Ph.D. **12.) Jonathan T. Young**; B.S.; Mathematics; Arizona State University; 2007; Applied Mathematics; Professor



## STUDENT NEWS AND ACCOMPLISHMENTS

### ALABAMA



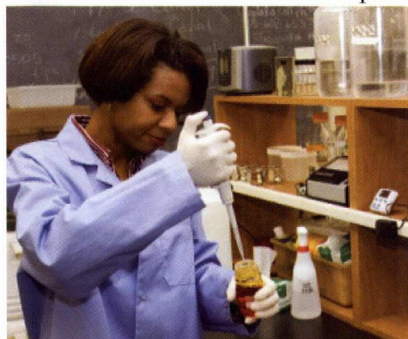
**Dr. Carma Cook** has successfully defended her thesis and met all the degree requirements. Dr. Cook (Biochemistry) was a BD Fellow and subsequently a GK-12 Fellow for another two years. Her final year was funded by Auburn University. She is now doing cancer research at Tuskegee University and plans to apply for available faculty positions as well as postdoc positions in cancer research at NIH/NCI and cancer research facilities.

**Lucy Kehinde** was a Minority Access 2008 Student Role Model and won the First Place Student Research Presenter Award. She earned her B.S. from the University of Illinois at Urbana-Champaign with Academic Distinction for her research in plant biotechnology in 2005. She will complete her Ph.D. in Vision Sciences in 2009 at UAB. Kehinde plans to teach and continue to do research with a clinical focus, most likely on ocular surface disease or contact lens research.



Four Auburn University BD Fellows are expected to receive doctoral degrees in 2009. They are: Angela Bell (Chemistry - 08/09); Nicole Harris (12/09); Charmaine Porter (D.D.S. - 05/09) and Kevin Tolliver (08/09).

Former UAB Ph.D. recipient and microbiologist,



**Dr. Crystal Johnson**, recently received a four-year \$2.3 million grant from the NSF and NIH to study pathogenic vibrios, as part of its Ecology of Infectious Diseases program. Southern Mississippi University

will receive \$1.6 million of the grant and share the remaining \$700,000 with the University of Maryland, a partner in the research.

“Not only is this one of the largest NSF grants Southern Miss has received, it is Dr. Johnson’s first awarded grant as principal investigator. She is to be commended,” said Dr. Cecil Burge, Vice President of Research and Economic Development at Southern Mississippi University. The project, “Identifying Environmental Determinants Favorable for the Presence and Transmission of Pathogenic Vibrios,” will explore temperature and other environmental

factors, such as turbidity, salinity, chlorophyll levels and other biochemical qualities.

### NEW MEXICO

Attending the **International and Intercultural Education Fair and Forum in Chihuahua, Mexico** were Martha Martinez Grimes, Molecular Biology, New Mexico AMP BD program; Daniel Ramirez, Biology, New Mexico BD program; Oscar Herrera, Dean of the College of Engineering, Universidad Autonoma de Chihuahua; Dr. Waded Cruzado, NMSU Interim President and Principal Investigator of the New Mexico BD program; Blanquita Madrazi de Alvarez, alumni of NMSU who resides in Chihuahua; Dr. Imelda Olague, staff member of New Mexico AMP; Dr. Delia Valles, Assistant Professor of Industrial Engineering and Co-Director of New Mexico AMP and Alfonso Islas, Animal Science, New Mexico AMP BD program.

#### New Mexico Bridge to the Doctorate Students

Several NMSU dignitaries, faculty and graduate students attended the International and Intercultural Education Fair and Forum in Chihuahua, Mexico from October 16-18, 2008. The mission of the event was to provide a forum for international and intercultural educators to share ideas and best practices and to develop connections and partnerships. Attendees included Drs. Waded Cruzado, Interim President; Robert Moulton, Provost; Delia Valles, Assistant Professor of Industrial Engineering and Co-Director of New Mexico AMP and Imelda Olague, New Mexico AMP



staff and instructor. Three graduate students who participated in the New Mexico AMP BD program also attended: Alfonso Islas, Animal Science; Martha Martinez Grimes, Molecular Biology and Daniel Ramirez, Biology.

The event offered panels focused on international education presented by campus presidents and other dignitaries from the United States, Mexico, Brazil, Venezuela, Peru, China, Japan and Spain. NMSU Interim President participated on two panels, and various NMSU departments and organizations took part in a career fair, including the College of Engineering, the College of Arts



and Sciences, the Graduate School, the New Mexico AMP, the U.S.D. and the Confucius Institute. The experience offered NMSU attendees the opportunity to network with international faculty and dignitaries.

New Mexico AMP program students and director attended the **Minority Access Role Model's Conference in Arlington, VA** from September 26-29, 2008. At the conference, NMSU received an award for its commitment to diversity and Dr. Art Hicks, the National Director of Louis Stokes Alliance for Minority Participation, received the Innovator Role Model award. The students also presented their research. Attending were Dr. Ricardo Jacquez, Director of New Mexico Alliance for Minority Participation; Gilberto Flores, Nuclear Physics, New Mexico Bridge to the Doctorate (BD) program; Julie Fernandez DeGraaf, Biology, Summer Community College Opportunity for Research Experience (SCCORE) program; Alfonso Islas, Animal Science, New Mexico BD program; Martha Martinez Grimes, Molecular Biology, New Mexico BD program; Ricardo Luna, Chemical Engineering, New Mexico BD program; Desa Daniel, Undergraduate Research Assistantship (URA) program and Felicia Guerrero, Mechanical Engineering, New Mexico BD program. New Mexico BD participant Martha Martinez Grimes placed second in the research presentation competition.



*New Mexico AMP and New Mexico BD Students with Dr. Art Hicks who received the Innovator Role Model Award.*

**Ismael Nieto**, Cohort II, Chemistry, Ph.D. in progress at the University of Texas (UT), is the recipient of an Alfred P. Sloan Fellowship and a National Institutes of Health Minority Biomedical Research Support Research (MBRS) Initiative for Scientific Enhancement (RISE) Fellowship.

**Sarah Gibson**, Cohort II, Chemistry, Ph.D. in progress at New Mexico State University (NMSU), is the recipient of an NSF Graduate Fellowship award.

**Albert Moncado**, Cohort I, Mechanical Engineering, Ph.D. in progress at Arizona State University, is the recipient of Fulton Fellowship Award.

**Ruben Ortega**, Cohort I, Electrical Engineering, Ph.D. in progress at Ohio State University (OSU), is recipient of an OSU University Fellowship.

## GREATER PHILADELPHIA REGION

**International Research Presentation:** Steven Jones, Ph.D. candidate, Neuroscience, Drexel University (Cohort III) presented his research on "Possible Functional Consequences of Microgravity-Dependent Myosin II Do in Neurons" at **Africa's First International Conference on Mission to MARS: The African Perspective** on October 22-23, 2007 in Nigeria.

**International Research Publications:** Quincy Brown, Ph.D. candidate, Computer Science, Drexel University (Cohort III) has the following international publications:

**Q. Brown**, F. Lee, V. Alevan, "Interface Challenges for Mobile Tutoring Systems," Intelligent Tutoring Systems Conference, Montreal, Canada, 2008.

**Q. Brown**, F. Lee, D. Salvucci, and V. Alevan, "The Design of a Mobile Intelligent Tutoring System," IEEE Symposium on Visual Languages and Human-Centric Computing, Hirsching am Ammersee, Germany 2008.

**International Research Training:** During Winter 2007, Alicia Revis-Mangum, M.S. candidate, Natural Resources, Delaware State University (Cohort IV) completed a course in Belize which trained students in tropical agriculture, ecosystems and conservation.

**Book Chapter:** Rafael Mulero, Ph.D. candidate, Mechanical Engineering, Drexel University (Cohort III) co-authored the following book chapter: **Mulero, R. & Kim, M. J.**, "Design, Fabrication, and Applications of Solid-State Nanopores for Single Molecule Analysis," in *Nanobiotechnology - A New Era of Modern Science*, published by Stadium Press, LLC (Feb. 2008).

## PUERTO RICO

**Francisco Solá** (UPR-Rio Piedras), Fellow of the Institute for Functional Nanomaterials and former Cohort III BD Fellow, was selected to participate in the 58<sup>th</sup> Meeting of Nobel Laureates in Lindau, Germany. This meeting corresponds to the 19<sup>th</sup> Forum dedicated to Physics. Approximately more than 20,000 persons applied, and only about 2.5% were selected. This year a total of 26 Nobel Laureates participated in the meeting: 21 from Physics, four from Chemistry and one from Physiology or Medicine. The experience of participating in the 58<sup>th</sup> Meeting of Nobel Laureates provided Francisco with a broad perspective of the world of cutting edge science. The interaction with the other participants provided the



opportunity for networking and collaborating in the future. The opportunity to talk with Nobel Laureates in his area of research was a unique experience. Francisco Solá acknowledges Oak Ridge Associated Universities (ORAU) for financing this experience. Currently he has nine peer review articles.



From left, Dr. Theodor Hänsch, Francisco Solá and Dr. John Hall. Both professors received the Nobel Prize in Physics (2005).

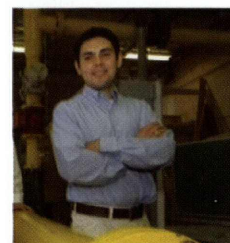
BD Cohort III alumni **Randy Wilkins** entered a Ph.D. program in Mechanical Engineering at Texas A&M University and **Lamesha Johnson** entered a Ph.D. program in Mathematics at Rice University.



TAMUS BD Fellow  
Aracely Rocha

BD Cohort IV alumnus **Aracely Rocha** received the Platinum Medal for the student poster competition at the Society of Tribology and Lubrication Engineering (STLE) 2008 Annual Meeting in Cleveland, Ohio. Aracely also studied abroad in Lyon, France in Summer 2008, where she performed research at the Ecole Centrale de Lyon.

BTD Cohort IV alumnus **Jacob Torres** received 1<sup>st</sup> place for his oral presentation in the Special Environmental Health & Safety Recognition session in the 2008 Texas A&M University Student Research Week competition, held March 24-28, 2008.



Jacob Torres

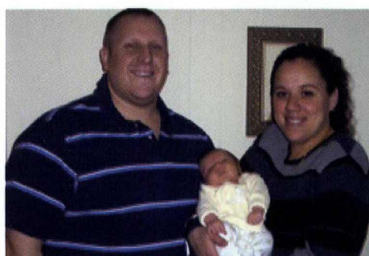
**Dr. Azlin Biaggi-Labiosa**, Cohort III BD Fellow was awarded a Ph.D. in chemical physics in June 2008.



Her thesis research was on the light emission from nanocrystalline silicon (nc-Si) when irradiated with electrons for applications on field emission displays (FED). The number of publications during her Ph.D. equals ten.

## TEXAS A&M SYSTEM

Bridge to the Doctorate (BD) Cohort I alumnus, **Dr. Erica Bruce (Reese)**, joined the faculty at Baylor University in Environmental Science with a dual appointment in Biomedical Studies in August 2008. Dr. Bruce was hired into the faculty position in less than a year after graduation with no post-doctoral experience. Dr. Bruce relayed to Texas A&M University System LSAMP that the hiring committee was very impressed with her participation in the TAMUS LSAMP program.



TAMUS BTD I-alumnus Dr. Erica Bruce (Reese) and family.

## UNIVERSITY SYSTEM OF MARYLAND

The following University System of Maryland BD students have advanced to Ph.D. candidacy and/or passed qualifying examinations:

**Miguel A. Acosta** advanced to Ph.D. candidacy in the Department of Chemical and Biochemical Engineering at UMBC in June 2008.

**Philip S. Dyer** passed qualifying exams for his Ph.D. in Mechanical Engineering at the University of Utah in November 2008.

**Bill J. Moss** passed qualifying exams for his Ph.D. in Chemical and Biochemical Engineering at UMBC.

**Antonie Renee Siler** advanced to Ph.D. candidacy in the Department of Chemistry at UMCP in January 2009.

**Jacqueline A. Smith** advanced to Ph.D. candidacy in the Department of Chemistry at UMCP in November 2008.

**Katisha D. Smith** advanced to Ph.D. candidacy in the Department of Mechanical Engineering at UMBC in August 2008.



# COHORT V PARTICIPANTS

## Alabama – The University of Alabama

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Edward Dillon	B.A.	Computer Science	University of Mississippi	2007	Computer Science
Alanzo Granville	B.S.	Mathematics	Alabama State University	2006	Mathematics
Nicole Gray	B.S.	Chemistry	Alabama State University	2007	Chemistry
Marleshia Hall	B.S.	Biology	Stillman College	2006	Biology
Haylee Hinz	B.S.	Biology	The University of Alabama	2007	Biology
Melody Kelley	B.A.	Chemistry	Wayne State University	2007	Chemistry
Contessa Majors	B.S.	Biology	Langston University	2007	Biology
Ekaette Mbong	B.S.	Biology	The University of Alabama at Birmingham	2007	Biology
DeAna McAdory	B.S.	Chemistry	Alabama State University	2007	Chemistry
Diondra Means	B.S.	Metallurgical Engineering	University of Alabama	2007	Metallurgical Engineering
Brandon Morgan	B.S.	Mathematics	Alcorn State University	2007	Mathematics
Kathryn Picard	B.S.	Biology	The University of Alabama	2007	Biology
Rachel Roberts	B.S.	Metallurgical Engineering	The University of Alabama	2007	Metallurgical Engineering

## California State University, Los Angeles

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Benjamin Bush	B.S.	Mathematics	CSU Long Beach	2007	Mathematics (Pure)
Carla Cueva	B.S.	Biological Sciences	UC Irvine	2006	Biological Sciences (Microbiology)
Monica Delgado	B.S.	Microbiology	CSU Los Angeles	2007	Biological Sciences (Microbiology)
Erika Garcia	B.S.	Biochemistry	CSU Los Angeles	2007	Chemistry (Analytical)
Angelina Hernandez	B.S.	Biological Sciences	UC Irvine	2007	Biological Sciences (Neurobiology)
Alberto Izarraraz Melero	B.S.	Applied Mathematics	UC Irvine	2006	Interdisciplinary (Biomathematics)
Xiomara Madero	B.A.	Psychology	CSU Los Angeles	2004	Biological Sciences (Molecular Biology)
Alex Maldonado	B.S.	Electrical Engineering	CSU Los Angeles	2007	Electrical Engineering (Power and Control Systems)
Omar Moreno	B.S.	Physics	UC Irvine	2006	Physics (Nuclear)
Maura Palacios	B.S.	Marine Biology & Zoology	CSU Long Beach	2007	Biological Sciences (Marine Biology)
Sergio Rivas	B.A.	Mathematics	CSU Los Angeles	2007	Mathematics (Pure)
Nadine Rodriguez	B.S.	Microbiology	CSU Los Angeles	2007	Biological Sciences (Microbiology)



### Colorado – Colorado State University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Jacob Barker	B.S.	Mechanical Engineering	Colorado State University	2007	Mechanical Engineering
Natalia Cordova-Sanchez	B.S.	Mathematics	University of Puerto Rico-Rio Piedras	2007	Mathematics
Derek Dalton	B.S.	Chemistry	University of Colorado-Denver	2007	Chemistry
Miguel Galvez	B.S.	Electrical Engineering	Colorado State University	2006	Electrical Engineering
Carlos Herrera	B.S.	Biology	University of Puerto Rico	2007	Biochemistry
William Johnston	B.S.	Physics	Texas A & M University-Commerce	2007	Physics
Lorene Martinez	B.S.	Biology	Colorado State University	2004	Microbiology
Matthew Martinez	B.S.	Electrical Engineering	New Mexico State University	2007	Electrical Engineering
Santano Mestas	B.S.	Biochemistry	Colorado State University	1999	Biomedical Engineering
Michelle Sanchez	B.S.	Chemistry	Regis University	2007	Chemistry
Ruffin Swain	B.S.	Mathematics	California State University - Dominguez Hills	2007	Mathematics
Philip Wheeler	B.S.	Chemistry	University of California-Santa Cruz	2004	Chemistry

### Illinois – University of Illinois at Chicago

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Sonja Artis	B.S.	Biology	Oakwood College	2007	Neuroscience
Tyvette Hilliard	B.S.	Chemistry/Biology	Chicago State University	2007	Medicinal Chemistry
Kristin Ivy	B.S.	Biology	Grambling State University	2007	Environmental & Occupational Health Science
Natalie King	B.S.	Biology	Oakwood College	2007	Neuroscience
Kristine Lynn	B.S.	Chemical Engineering	University of Illinois at Chicago	2004	Environmental & Occupational Health Science
Ikenna Madueke	B.S.	Biology	Chicago State University	2007	Cancer Biology
Leah Page	B.S.	Chemistry	Southern University	2007	Chemistry
Mandek Richardson	B.S.	Bioengineering	University of South Florida	2007	Bioengineering
O'Neil Shand	B.S.	Microbiology	University of Florida	2007	Microbiology & Immunology
Tanganyika Wilder	B.S.	Pre-Medicine	Florida A&M University	2004	Physiology & Biophysics



### Louisiana State University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Alvin Allen	B.S.	Computer Science	Southern University and A&M	1983	Computer Engineering
Jodi Boutte	B.S.	Kinesiology	Louisiana State University	2005	Engineering Science
Marcus Benjamin	B.S.	Chemistry	Jackson State University	2005	Chemistry
Marsha Cole	B.S.	Chemistry	Grambling State University	2007	Chemistry
Fareed Dawan	B.S.	Computer and Electrical Engineering	Louisiana State University	2002	Computer and Electrical Engineering
Curtistine Deere	B.S.	Chemistry	Mississippi Valley State University	2005	Chemistry
Krystal Fontenot	B.S.	Chemistry	Southern University and A&M College	2004	Chemistry
Wakeel Idewu	B.S.	Civil Engineering	University of Louisiana - Lafayette	2004	Civil Engineering
Amber Matthews	B.S.	Biological Science	Louisiana State University	2006	Biological Science
Amy Pollard	B.S.	Chemistry	University of Tennessee	2004	Chemistry
Kandace Thomas	B.S.	Biological Science	Southern University and A&M College	2005	Biological Science
Ashleigh Wright	B.S.	Chemistry	Wofford College	1990	Chemistry

### Mississippi – Jackson State University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Contessa Badie	B.S.	Biology	University of Mississippi	2007	Biology
Teresa Demeritte	B.S.	Chemistry/Biology	Jackson State University	2007	Biochemistry
Eric Evans	B.S.	Biology	Jackson State University	2007	Marine Science
Dihanna Hackett	B.S.	Biology	Jackson State University	2006	Biology
Stephanie Hughes	B.S.	Biology	Jackson State University	2007	Genetics
Danielle McShan	B.S.	Chemistry	Talladega College	2006	Pharmacology
Ricky McGruder	B.S.	Computer Engineering	Jackson State University	2007	Computer Engineering
Wanda Payne	B.S.	Mathematics	Mississippi Valley State University	2007	Mathematics
Candace Perry	B.S.	Chemistry	Alcorn State University	2007	Chemistry
Jetaime Ross	B.S.	Biology	Jackson State University	2007	Biology
Kelisha Turner	B.S.	Biology	Jackson State University	2006	Biology
Ivan Walker	B.S.	Computer Engineering	Jackson State University	2007	Computer Engineering



### New Mexico – New Mexico State University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Alicia Arguelles	B.S.	Biology	University of New Mexico	2007	Biology
Carl Carrasco	B.S.	Independent Study: Biology, Biochemistry & Psychology	New Mexico State University	2007	Wildlife Science
Lorena Gonzalez	B.S.	Mathematics	University of Texas at El Paso	2007	Mathematics
Daniel Ramirez Gordillo	B.S.	Biology	New Mexico State University	2007	Biology
Barbara Lugo	B.S.	Engineering Technology	New Mexico State University	2007	Industrial Engineering
Kristiana Martinez	B.S.	Biochemistry	New Mexico State University	2007	Biochemistry
James Morel	B.S.	Wildlife and Fisheries Conservation	Southeastern Oklahoma State University	2006	Fishery and Wildlife Science
Carlos Ortega	B.S.	Mechanical Engineering	New Mexico State University	2007	Mechanical Engineering
Jasmine Pando	B.S.	Biology	New Mexico State University	2007	Molecular Biology
Rose Perea	B.S.	Engineering Physics	New Mexico State University	2007	Physics
Pablo Teveni	B.S.	Horticulture	Texas A & M Kingsville	2006	Horticulture

### New York – The City University of New York

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Robert Bowers	B.S.	Chemistry	University of Houston	2007	Chemistry
Charren Cabaroy	B.S.	Geology	York	2008	Geology
Karl Clarke	B.A.	Geography	Hunter College	2008	Geography
Lina Cordero	B.E.	Electrical Engineering	City College	2008	Electrical Engineering
Jose Cortes	B.A.	Computer Science	Hunter College	2004	Urban Education/Technology
Hawndel Fraser	B.S.	Psychology	Brooklyn College	2007	Environmental Psychology
Kareem Joshua	B.E.	Biomedical Engineering	City College	2007	Biomedical Engineering
Jonathan Maitre	B.S.	Mathematics	Medgar Evers College	2008	Mathematics
Philipa Njau	B.S.	Chemistry	City College	2007	Chemistry
Clarice Richardson	B.S.	Mathematics/ Biology	Medgar Evers College	2008	Biomedical Engineering
Evelyn Silva	B.A.	Environmental Science	Queens College	2005	Environmental Ecology
Martino Thenor	B.S.	Computer Science	NYC College of Technology	2007	Computer Information Systems
Jumie Yuventi	B.E.	Electrical Engineering	City College	2008	Electrical Engineering



### Philadelphia – Temple University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Alton Allen	B.S.	Computer and Information Science	Temple University	2006	Computer and Information Science
Shileen Bynum	B.A.	Chemistry	Cheyney University of Pennsylvania	2003	Microbiology and Immunology
Nejea Davis	B.S.	Chemistry/ Biochemistry	Temple University	2007	Chemistry
Amaliris Gonzalez	B.A.	Biology	Temple University	2007	Biology
Keyona Gonzalez	B.S.	Biology	Delaware State University	2007	Biology
Justin Griggs	B.A.	Mathematics	University of California - Santa Cruz	2003	Mathematics
Virginia Kocieda	B.S.	Biology	Temple University	2005	Microbiology and Immunology
Enoch Kotei	B.S.	Biology	Temple University	2007	Biology
Jay Lunden	B.S.	Biology	Temple University	2007	Biology
Johnny Perez	B.S.	Chemistry	Temple University	2007	Chemistry
Andro-Marc Pierre Louis	B.S.	Chemistry	Temple University	2007	Chemistry
Renee Oats	B.S.	Physics	Lincoln University	2005	Civil Engineering
Carl Slater	B.A.	Mathematics	Morehouse College	2006	Statistics

### Puerto Rico – University of Puerto Rico at Rio Piedras

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Ismael Alicea	B.S.	Chemistry	UPR at Humacao	2006	Biochemistry
Juan Burgos	B.S.	Physics	UPR at Rio Piedras	2007	Physics
Ana R. Cameron	B.E.	Chemical Engineering	UPR at Mayaguez	2007	Chemical Engineering
Manuel Delgado	B.S.	Biology	UPR at Arecibo	2003	Neurobiology
Rosalyn Gonzalez	B.S.	Biology	UPR at Cayey	2007	Molecular Biology
Dionne Hernandez	B.S.	Chemistry	UPR at Humacao	2004	Biochemistry
Ruth Hidalgo	B.E.	Mechanical Engineering	UPR at Mayaguez	2007	Mechanical Engineering
Ida Pantoja	B.S.	Biology	UPR at Rio Piedras	2007	Microbiology
Karinel Nieves	B.S.	Chemistry	UPR at Rio Piedras	2007	Organic Chemistry
Damian Reyes	B.E.	Chemical Engineering	UPR at Mayaguez	2007	Chemical Engineering
Carlos A. Rodriguez	B.S.	Biology	UPR at Rio Piedras	2007	Ecology
Denisse Soto	B.E.	Chemical Engineering	UPR at Mayaguez	2007	Chemical Engineering



**State University of New York – University of Buffalo**

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Jahmil Campbell	B.S.	Electrical Engineering	University at Buffalo	2007	Electrical Engineering
Corie Ellison	B.S.	Pharmacology & Toxicology	University at Buffalo	2007	Pharmacology & Toxicology
Ivonne Ferrer	B.S.	Chemistry	University of Puerto Rico at Cayey	2004	Analytical Chemistry
Rodolfo Garcia	B.S.	Pharmacology & Toxicology	University at Buffalo	2007	Pharmacology & Toxicology
Daniel Gavahi	B.S.	Architectural Engineering	California Polytechnic – San Luis Obispo	2007	Civil Engineering
Pablo Guzman	B.S.	Chemistry	Chicago State University	2006	Chemistry
Barnard Onyenucheya	B.S.	Electrical Engineering	University at Buffalo	2007	Electrical Engineering
Courtney Saenz	B.S.	Forensic Chemistry	Buffalo State College	2007	Molecular & Cellular Biophysics & Biochemistry
Epaphrodite Uwimana	B.S.	Computer Information Systems	Buffalo State College	2004	Industrial Engineering
Jesus Velazquez	B.S.	Chemistry	University of Puerto Rico at Cayey	2005	Chemistry
Keith Ward	B.S.	Industrial Engineering	University at Buffalo	2006	Industrial Engineering
Christine Wingo	B.S.	Industrial Engineering	University at Buffalo	2001	Industrial Engineering

**Washington/Baltimore/Hampton Roads – Howard University**

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Christopher Agard	B.S.	Biological Sciences	Howard University	2007	Biology/Ecology
Louis Antoine	B.S.	Mechanical Engineering Technology	Northeastern University	2007	Mechanical Engineering
Monique Calhoun	B.S.	Physics	Hampton University	2007	Physics
Daniel Casimir	B.S.	Physics	Morgan State University	2002	Physics
Kasey Davis	B.S.	Biological Sciences	Morgan State University	2006	Anatomy
Denitra Breuer (Evans)	B.S.	Biochemistry	North Carolina State University	2004	Microbiology
Ezra Hackett	B.S.	Biomedical Engineering	New Jersey Institute of Technology	2004	Microbiology
Kimberly Mason	B.S.	Biological Sciences	St. Augustine's College	2004	Microbiology
Rhonda McCoy	B.S.	Chemistry	North Carolina A&T University	2004	Chemistry
Frajovon Talley	B.S.	Chemistry	Howard University	2007	Chemistry
Jorge Velez-Juarbe	B.S.	Geology	University of Puerto Rico-Mayaquez	2007	Anatomy
Danyelle Winchester	B.S.	Biological Sciences	University of Maryland-Eastern Shore	2006	Genetics and Human Genetics



## Western Alliance to Expand Student Opportunities – Arizona State University

Name	Undergraduate Degree	Undergraduate Major	Undergraduate Institution	Year of Degree	Graduate School Major
Carl E. Ballard II	B.S.	Mathematics	Alabama State University	2007	Mathematics
Timothy Clore	B.S.	Biomedical Sciences	Western Michigan University	2006	Biochemistry
Angelo Gonzalez	B.S.E.	Bioengineering	Arizona State University	2006	Biomedical Engineering
Emmanuel Morales	B.S.	Applied Mathematics	Metropolitan University-San Juan	2007	Mathematics
Liliana Rincon	B.S.E., B.A.	Bioengineering/ Psychology	Arizona State University	2007	Bioengineering
Kehinde Salau	B.A.	Mathematics	St. Mary's College of Maryland	2007	Mathematics
Erin Schultz	B.S., B.A.	Biology/Spanish	University of New Mexico	2007	Biology
Edme Soho	B.S.	Mathematics with a minor in Physics	Montclair State University	2007	Applied Mathematics in Life and Social Sciences
Yaralid Sotomayor-Castro	B.S.	Microbiology	University of Puerto Rico, Mayaguez	2005	Microbiology
Jolene E. Trujillo	B.S.	Biology	University of New Mexico	2007	Biology
Yusuf Tufail	B.S.	Health Sciences-Physiology	University of Arizona	2006	Biology

### THE EVALUATION OF THE NSF BRIDGE TO THE DOCTORATE INITIATIVE

*Continued from page 2*

while several institutions are in the process of submitting their information. A few institutions have written confidentiality policies that prevent them from releasing identifying information. Special accommodations being provided to these institutions have delayed their submissions—e.g., the Urban Institute preparing IRB packages, drafting letters or providing security plans—but all institutions are required to submit all data needed.

#### ***What are some common misconceptions about the evaluation?***

- The first is that institutions may request a reduction in the sample size of the comparison or peer group. The design has been applied uniformly to all institutions and no individual accommodations with respect to sample size are possible or have been offered. Admittedly, institutional size was taken into account in sampling to ensure that the comparison sample resembled the distribution of BD awards by institution size, which had the benefit of limiting the burden of large institutions.
- The second is that foreign students should be excluded. Because not all institutions agreed to provide information on citizenship status of students *in the design stage*, it was not possible to consider excluding foreign students. Having been included in the sample size estimates, they cannot be excluded from the data collection. Of course, adjustments will be applied in the analysis phase to ensure that comparisons made are appropriate.
- The third is that FERPA or IRB requirements prevent the submission of individual level records. Neither is an insurmountable roadblock and Urban Institute evaluators will gladly work with university representatives to comply with institutional requirements and respond to concerns.

***What are the next steps?*** The evaluation will collect data yearly for three years. Institutions will be contacted every year by Macro International when the data collection system is opened for that year. No new students will be added to those already included in the evaluation, but educational progress and workforce outcomes data for selected students will be tracked to assess the success of the BD initiative.

*We are indebted to all institutions and their hard working staff for their continued support of the evaluation.*



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<b>Washington/Baltimore/Hampton Roads</b>	Dr. Richard A. English Provost and Chief Academic Officer	Howard University 2400 6 <sup>th</sup> Street, N.W. Washington, DC 20059	(202) 806-2550 <a href="mailto:renglish@howard.edu">renglish@howard.edu</a>
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# 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.

