

INTERNATIONAL ACTIVITIES

UC Bridge to Doctorate Fellows present their research at international scientific conferences, including at the International Conference on Software Engineering, **Shanghai, China**; the Third International Conference on Information Assurance and Security, **Manchester, UK**; International Conference on Colloid Chemistry and Physicochemical Mechanics, **Moscow, Russia**; the 4th European Workshop on Structural Health Monitoring, **Cracow, Poland**; and the 14th World Conference on Earthquake Engineering in **Beijing, China**. BD Fellows gain perspectives on the global scientific and engineering workforce. They share their new-found realizations with peers and undergraduate mentees, and bring the international experience to bear in their educational and career goals. What BD Fellows gain through interaction in the global community enables them to visualize their future contributions to and important place in the scientific enterprise.



BD SITE DIRECTORS

Cohort I UC Los Angeles

Dr. Richard Weiss, Department of Chemistry & Biochemistry
Dr. Heather Tarleton, Director of Diversity Initiatives
Jeremy Morris, Coordinator, Outreach, Diversity & Fellowships

Cohort II UC Irvine

Dr. Derek Dunn-Rankin, Professor, Mechanical & Aerospace Engineering
Marjorie DeMartino, BD Coordinator
Raslyn Rendon, Director, Outreach, Recruitment, and Retention, The Graduate Division

Cohort III UC San Diego

Dr. David Artis, Director, Academic Enrichment Programs
Dr. Jacqueline Azize-Brewer, Associate BD Director
Dr. Tim Johnston, Assistant Dean for Graduate Student Affairs

Cohort IV UC Davis

Dr. Karen McDonald, Associate Dean, Research & Graduate Studies, College of Engineering
Dr. Jeffrey Gibeling, Dean, Office of Graduate Studies
Dennis Gonzalez, BD Coordinator, Student Development & Recruitment

Dr. A. James Hicks, Director, LSAMP and BD, National Science Foundation

CALIFORNIA LSAMP LEADERSHIP

The University of California, Irvine is Lead Campus and Administrative Center

**Michael V. Drake, M.D., Chancellor
University of California, Irvine, P.I.**

Debra J. Richardson, Ph.D., Dean
Bren School of Information and Computer Science, Co-PI.

Co-Project Directors:

Derek Dunn-Rankin, Ph.D., Professor
Mechanical and Aerospace Engineering
Marjorie DeMartino, M.F.A.
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BRIDGE TO THE DOCTORATE



*Supporting Underrepresented
Minority Graduate Education and
Completion of the Ph.D. and Increasing the
Impact on the Nation's Scientific Workforce*

UNIVERSITY OF CALIFORNIA
CAMP

LOUIS STOKES ALLIANCE
FOR MINORITY PARTICIPATION

A Grant Through the National Science Foundation



ACADEMIC AND PROFESSIONAL DEVELOPMENT

- Workshops & Seminars
- Professional Conferences
- Technical Writing
- Research Experiences
- Laboratory Skills
- Career Strategies
- Mentoring Opportunities
- Technology Enrichment
- Leadership Training
- UC Systemwide Connectivity



“Deciding to enroll in a graduate program is a big step for STEM majors. The Bridge to the Doctorate provides not only financial support to make graduate school feasible, but builds community within a welcoming social and professional network. It provides a gateway to intellectual opportunity.”

—Ralph J. Cicerone, President,
National Academy of Sciences

COHORT I UC Los Angeles

UCLA is a major public research university and a member of the Association of American Universities. With more than 4,000 teaching faculty, it offers 200 graduate programs. Five UCLA faculty members are Nobel laureates as are four graduates of UCLA, and nine faculty have been awarded the National Medal of Science. BD students are engaged in a dynamic environment, pursuing excellence and intellectual opportunity. Cohort I of the California LSAMP BD is successfully progressing in the Ph.D. track.

JOSE AVENDANO

B.S. Mathematics, 2004
M.S. Mathematics, 2006
Pursuing Ph.D. at University of New Mexico

KARLA COTI

B.S. Biochemistry,
Qualifying Exam 2007, UCLA
Est. Ph.D. Organic Chemistry,
2009

KIMBERLY CROSS

Mentor: Dr. Yunfeng Lu
B.S. Chemical Engineering,
2003, University of California,
Riverside
Est. Ph.D. Chemical Engineering,
2010

Career Goal: Fabrication of nano-scaled electronic devices

STEPHEN ESTES

Mentor: Dr. Richard Ambrose
Est. Ph.D. Environmental
Engineering, 2011

DAVID A. GALVAN

Mentor: Dr. Mark Moldwin
B.S. Physics, 2003, University
of California, San Diego
Est. Ph.D. Earth/Space Sciences,
2010
Career Goal: Work on Space
Program with NASA

KARINA HEREDIA

B.S. Chemistry, 2003, California
Polytechnic, Pomona
Career Goal: Pharmaceutical
Research

MIGUEL JIMENEZ

B.S. Chemistry, 2003, University
of California, Los Angeles
Est. Ph.D. Chemistry
Career Goal: Teaching and
Research (Professor)

DENNIS JAY MONTROYA

Mentor: Dr. Robert Modlin
B.A. Molecular and
Cellular Biology, 2003,
University of California,
Berkeley
Est. Ph.D. Microbio/Genetics,
2010

Career Goal: Teaching and
Research (Professor)

ODI C. OSONKIE

Mentor: Dr. James Gober
B.S. Biochemistry, 2003,
California State University,
Northridge
Est. Ph.D. Chemistry/Biochem,
2010

Career Goal: Teaching and
Research (Professor)

JESSE ZAMUDIO

Mentor: Dr. David Campbell
B.S. Biochemistry, 2003,
University of California,
Los Angeles
Est. Ph.D. Microbio/Genetics,
2010

Career Goal: Teaching and
Research (Professor)

BD Fellows are presenting
their research globally, at professional
scientific conferences held in China, Japan,
Poland, Russia, England, Ireland,
and other countries.

COHORT II UC Irvine

The University of California, Irvine (UCI), is one of the most diverse campuses in the nation. Its faculty have achieved distinction in virtually every discipline. The campus has 25,000 undergraduates and 3,300 graduate students. Students have access to faculty at the forefront of their fields. Two Nobel Prizes in 1995 for founding faculty F. Sherwood Rowland in Chemistry and the late Frederick Reines in Physics helped to secure UCI's position among the leading American research universities. BD Scholars are engaged in a competitive yet welcoming environment.

LAMAR BLACKWELL

Mentor: Dr. Lee Bardwell
B.S. Biochemistry, California State
University Fullerton, 1999
Est. Ph.D. Biology, 2010
Career Goal: Research Scientist

RENE BRAVO

B.A. Chemistry, Point Loma
Nazarene, 2004
Career Goal: Science Executive

MAMADOU DIALLO

Mentor: Dr. Debra Richardson
B.S. Computer & Information
Science, UC Irvine, 2004
Est. Ph.D. Computer Science, 2009
Career Goal: University Faculty
Member

PHILIP GARCIA

Mentor: Dr. Derek Dunn-Rankin
B.S. Mechanical Engineering,
UC Irvine, 2004
Completed M.S.
Career Goal: Turbulence
Researcher

JAQUAN HORTON

Mentor: Dr. Adam Summers
B.S. Biology, University of Mass.,
Amherst, 2003
Est. Ph.D. Eco/Evolutionary Bio,
2009
Career Goal: Research Scientist

JESSE POMPA

Mentor: Dr. Derek Dunn-Rankin
B.S. Mechanical Engineering, UC
Irvine, 2004
Completed M.S.
Career Goal: Combustion
Research Scientist

MELISSA PRADO

Mentor: Dr. Kenneth Janda
B.S. Chemistry, UC Irvine, 2004
Est. Ph.D. Physical Chemistry,
2010
Career Goal: University Professor

LUIS RODRIGUEZ

Mentor: Dr. A. Sideris
B.S. Mechanical Engineering,
UC San Diego, 2001
Est. Ph.D. Mechanical
Engineering, 2011
Career Goal: Robotics

KIMBERLY ROMERO

Mentor: Dr. Aimee Edinger
B.S. Biology, UC Irvine, 2003
Est. Ph.D. Biology, 2011
Career Goal: Research Scientist

JOSE ROMERO-MARIONA

Mentor: Dr. Debra Richardson
B.S. Information & Computer
Science, UC Irvine, 2004
Est. Ph.D. Computer Science,
2009
Career Goal: Dean/Chancellor

DENISE ULLERY

Mentor: Dr. Henry Lee
B.S. Computer Engineering,
UC Irvine, 2002
Completed M.S.
Career Goal: Research Scientist

MAVEE WITHERSPOON

Mentor: Dr. Steve Lipkin
B.S. Biology, California State
University Fullerton, 1999
Est. Ph.D. Biology, 2009
Career Goal: Research Scientist

UC Bridge to the Doctorate leverages
resources with UC AGEP, enabling program
synergy and connectivity among
minority graduate students.

COHORT III UC San Diego

UC San Diego is internationally respected for its eminent faculty (eight Nobel laureates, six National Medal of Science winners, 66 members of the National Academy of Sciences, including Chancellor Marye Anne Fox), highly ranked programs, and contributions to global research; home of the Scripps Institution of Oceanography, the world's foremost oceanographic institution. UCSD is also the site of The San Diego Supercomputer Center, the national center for advanced computational sciences and engineering. The BD Scholars of Cohort III contribute to the vibrant intellectual life on the San Diego campus.

ANTHONY FARINA

Mentor: Dr. Terunaga
Nakagawa
B.S. Biochemistry, UC Riverside
2005
Graduate Major: Biochemistry
Career Goal: Research scientist at
a university

ALICIA GAMEZ

Mentor: Dr. Partho Ghosh
B.S. Chemistry, CSU Pomona 2004
Graduate Major: Biochemistry
Career Goal: Tenured faculty
member at a research university

PABLO GARCIA-REYNAGA

Mentor: Dr. Michael Van
Nieuwenhze
B.S. Chemistry and B.A.
Comparative Literature,
UC Berkeley 2005
Graduate Major: Organic
Chemistry
Career Goal: Become a professor
and do research in medicinal
chemistry

JAMES MARSH

Mentor: Dr. Ed Callaway
B.A. Molecular and Cellular Biology
and B.A. Psychology,
UC Berkeley 2005
Graduate Major: Neurosciences
Career Goal: Professor of neuro-
science

CYNTHIA GARZA

Mentor: Dr. Roberta Gottlieb
B.S. Molecular and Cellular
Biology, University of Arizona
2004
Graduate Major: Molecular
Pathology
Career Goal: Teach and direct a lab

KRISTINA POHAKU

Mentor: Dr. William Troglor
B.S. Chemistry, UC Santa Barbara
2003
Graduate Major: Chemistry
Career Goal: Work in industry
or at a national lab

MANUEL RUIDIAZ

Mentor: Dr. Andrew Kummel
B.S. Computer Engineering and
B.S. Molecular Biology,
UC San Diego 2005
Graduate Major: Photonics
Career Goal: Promote the integra-
tion of emerging biological
science with engineering

ESMERALDA RUIZ

Mentor: Dr. Jing Yang
B.S. Biological Sciences,
UC Irvine 1998
Graduate Major: Biomedical
Sciences
Career Goal: Contribute to cancer
research and effective therapies

SERGIO SANDOVAL

Mentor: Dr. Andrew Kummel
B.S. Chemical Engineering,
UC Irvine 2003
Graduate Major: Bioengineering
Career Goal: Ph.D. and work on
nano-devices to improve
health-care

MOSES TATAW

Mentor: Dr. Yannis
Papakonstantinou
B.S. Computer Science,
UC Riverside 2005
Graduate Major: Computer
Science and Engineering
Career Goal: Ph.D. and M.D.

ROBERTO TINOCO

Mentor: Dr. Elina Zuniga
B.S. Neurobiology, UC Irvine
2005
Graduate Major: Biology
Career Goal: Direct my own
research lab in academia

MELANIE ZAUSCHER

Mentor: Dr. Kim Prather
B.S. Environmental Chemistry,
UC San Diego 2003
Graduate Major: Mechanical
Engineering
Career Goal: Work in the
renewable energy field

COHORT IV UC Davis

UC Davis, one of the most comprehensive of all the UC campuses, is one of the nation's top public research universities and is part of the world's pre-eminent public university system. The campus is set in the heart of the Central Valley, close to the state capital and San Francisco Bay Area. UC Davis is one of 62 North American universities admitted into the prestigious Association of American Universities. The campus has 86 graduate programs and five professional schools (Education, Law, Management, Medicine, Veterinary Medicine). One in every 315 Californians is a UC Davis alum! The BD Scholars of Cohort IV bring prestige to their graduate programs and serve as connective links between LSAMP students and post-doctoral fellows—bridging several generations of aspiring researchers.

LUCAS ARZOLA

B.S. 2007 Chemical Engineering,
University of Puerto Rico,
Mayaguez
Career Goal: Research and de-
velopment (R&D) scientist at a
biotech industry or a professor

PATRICIA CASTILLO

B.S. 2005 Immunology,
CSU Los Angeles
Career Goal: Research Scientist
in Immunology

NICHOLE COLEMAN

B.S. 1997 Chemistry,
CSU San Francisco
Career Goal: Research Scientist
at a Pharmaceutical Company

CATHERINE COX

B.S. 2006 Chemistry,
UC Davis
Career Goal: Research Scientist
in a National Laboratory

MOISES DELATORRE

B.S. 2006 Microbiology,
CSU Fresno
Career Goal: Research Scientist
in Academia or Industry

ISRAEL LOPEZ

B.S. 2002 M.S. Mechanical &
Aerospace Engineering,
UC Davis
Career Goal: Research Scientist
and Engineering Consultant

RAQUEL OROZCO

B.S. 2006 Chemical Engineering,
UC Berkeley
Career Goal: Industry Researcher
and University Professor

CECILIA OSORIO

B.S. 2006 Plant Biology,
UC Riverside
Career Goal: Professor in Plant
Biology/Research Emphasis

JORGE ROBLES

B.S. 2006 Physics,
UC San Diego
Career Goal: Faculty Position
in Physics at a University

GERARDO ROCHA

B.S. 2007 Civil Engineering,
UC Davis
Career Goal: Research scientist
in Engineering

JACKIE TEIXEIRA

B.S. 2006 Chemistry,
UC Davis
Career Goal: Synthetic Organic
Chemist in Industry

BD Fellows have the opportunity
to mentor LSAMP undergraduates
and motivate them to prepare for
admission to graduate school.

The UC LSAMP has created a systemwide network of faculty, program staff, and students working toward common goals, including completion of the B.S. degree and preparation for and transition to graduate school or the scientific workplace.