

ARCS

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SCIENCE
IN AMERICA[®]



THE ANNUAL SCHOLAR AWARDS

LUNCHEON

2011



**ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS
ATLANTA CHAPTER
FALL 2011 LUNCHEON PROGRAM
THE RITZ-CARLTON, ATLANTA**

Welcome

Kay Weiss, President
ARCS Foundation, Atlanta Chapter

**Presentation of
2011 ARCS Atlanta Scholars**

Invocation

The Rev. Carolynne G. Williams
The Cathedral of St. Philip, Atlanta, Georgia

Lunch

Introduction of Keynote Speaker

Debbie Shelton

Dr. Berrien Moore

Vice President, Weather and Climate Programs, University of Oklahoma
Dean, College of Atmospheric and Geographic Sciences
Director, National Weather Center

Moderator

Bill Liss
Financial, Consumer and Legal Editor, WXIA-TV

Closing Remarks

Kay Weiss

The History of ARCS[®] Foundation, Inc.

In 1957, in the aftermath of the Soviet launching of Sputnik, a group of women in Los Angeles came together with the commitment to re-establish U.S. technological superiority. ARCS Foundation was founded with idealism and patriotism in mind, its goal to financially assist students of high achievement in the natural sciences, medicine and engineering.

On Sept. 5, 1958, Achievement Rewards for College Scientists Foundation, Inc. was formally incorporated as a nonprofit corporation in California, the culmination of ten months of intensive effort by its founders, Florence Malouf, Irene Slagel, Alice Tyler and Helena Wooldridge. From its inception in Los Angeles, the organization has grown to 17 Chapters in 14 states. As opportunities arise, Chapters will be chartered.

The National Board of ARCS Foundation must approve the colleges and universities that Chapters select for funding, as well as the departments and programs at those institutions. A scholar receiving an award must be a citizen of the United States and have a high scholastic record and demonstrated ability. Institutions receiving the funds administer them and select students without regard to race, creed or gender.

ARCS Foundation is one of the largest contributors to basic science education of any private membership organization in the United States. ARCS Foundation works differently than many organizations in that 100 percent of all contributions donated for scholar awards goes directly to the scholars. Resources from corporations, foundations and individuals combine to support American scholars, helping to insure a better future for all. As an all-volunteer organization, members take a personal interest in supporting the scholars and keep in touch with scholars throughout their academic careers, and often beyond.

In 2009, ARCS Foundation was recognized nationally by the Council for Advancement and Support of Education (CASE) with its highest award - the James L. Fisher Award for Distinguished Service to Education. In announcing the award, John Lippincott, CASE President said, "The Distinguished Service Awards recognize efforts that have made a significant difference in the ability of educational institutions to fulfill their missions and achieve their visions."

ARCS® Foundation, Inc. At A Glance

Chapters

Atlanta, Georgia
Chicago, Illinois
Denver, Colorado
Honolulu, Hawaii
Los Angeles, California
Lubbock, Texas
Metro Washington, D.C.
Minnesota
Northern California
Orange County, California
Phoenix, Arizona
Pittsburgh, Pennsylvania
Portland, Oregon
San Diego, California
Seattle, Washington
Tampa Bay, Florida
Utah

Mission

ARCS Foundation advances science and technology in the United States by providing financial awards to academically outstanding U.S. citizens studying to complete degrees in science, engineering and medical research.

Achievements

In academic year 2010-2011, ARCS Foundation members awarded more than \$3.7 million to scholars at 52 institutions. Since our founding in 1958, there have been 13,650 scholar awards totaling more than \$79 million.

Web site

arcsfoundation.org

MONARCS®

We are proud to recognize the following donors who have contributed to the Atlanta Chapter of ARCS Foundation throughout our brief history.

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Kay and Buddy Weiss

From the President

The Atlanta Chapter of ARCS® Foundation welcomes you to our 20th annual Scholar Awards Luncheon. Advancing Science in America® is the mission of ARCS Foundation, one of the largest private contributors to science education in the United States. Organized and operating throughout the country by more than 1600 women volunteers, ARCS Foundation gives 100 percent of all contributions donated for scholar awards to direct support of academically outstanding U.S. scholars pursuing degrees in science, engineering and medical research.

Today we will recognize and honor 39 academically outstanding scholars from Emory University, the Georgia Institute of Technology, Morehouse College and the University of Georgia. These gifted students are the "best and the brightest" in their fields of study. All have been selected by their respective schools to receive this honor by meeting and maintaining ARCS Foundation's high standards of academic excellence. We are proud to be playing a part in their achievements, and we look forward to their collective ability to contribute to our future quality of life.

For the third year, the Atlanta Chapter is providing one-year \$10,000 Global Impact Awards for three graduate scholars. The funding supports travel and research opportunities. This year a scholar is researching an operational forecasting system for tropical cyclones. Others are developing methods addressing global infectious diseases and health services.

We extend our sincere thanks and gratitude to our many donors. This year ARCS Foundation Atlanta will have awarded a cumulative total of over \$2.5 million to scholars pursuing studies in scientific and technological innovation. Support for our scholars comes from three sources. A portion of the dues paid by 150 ARCS Foundation members helps fund several awards; then there are those ARCS Foundation members who have chosen to provide additional financial support for the scholars; and finally, corporations, foundations and families who believe in the ARCS Foundation mission have joined to create more scholar awards. We hope some of you today who hear our message and meet our phenomenal scholars will be inspired to become our newest ARCS Scholar Award Donors.

In closing, I would like to recognize and thank Chair Debbie Shelton and her entire Scholar Awards Luncheon Committee. They have all worked to make this a memorable day for our scholars, members and guests.

A handwritten signature in dark ink, reading "Kay Klein". The signature is fluid and cursive, with the first name "Kay" being more prominent and the last name "Klein" following in a similar style.

President, ARCS Foundation Atlanta Chapter

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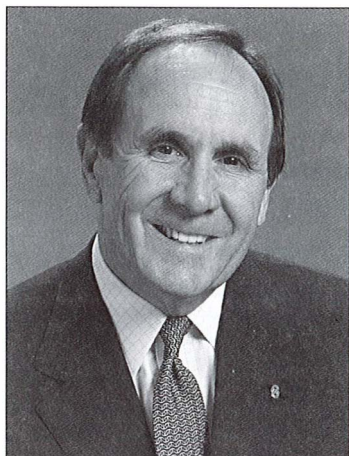
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Dr. Berrien Moore

Dr. Berrien Moore III, an internationally recognized Earth scientist, joined the University of Oklahoma, College of Atmospheric and Geographic Sciences as Dean Designate in May 2010, and Dean in July. He also serves as Professor of Meteorology, the Chesapeake Energy Corporation Chair in Climate Studies, Director of the National Weather Center, and Vice President for Weather and Climate Programs.

Most recently, Moore has served as executive director of Climate Central, a nonprofit, nonpartisan think-tank based in Princeton, N.J., and Palo Alto, Calif., which is dedicated

to providing public, business and civic leaders and policymakers with objective and understandable information about climate change and potential solutions. He has published extensively on the global carbon cycle, biogeochemistry, remote sensing and environmental policy. Prior to heading Climate Central, Moore served for 20 years as the director of the Institute for the Study of Earth, Oceans and Space at the University of New Hampshire and held the position of Distinguished University Professor. Throughout his career at UNH, he worked closely with many aerospace companies, including AER, BAE Systems, Ball Aerospace and Technologies, Harris, ITT, Lockheed Martin, Northrop Grumman, and Raytheon. As the coordinating lead author of the final chapter of the Intergovernmental Panel on Climate Changes (IPCC's) Third Assessment report, Professor Moore contributed to the awarding of the 2007 Nobel Peace Prize to the IPCC.

Moore has been a visiting research scientist at the Laboratoire de Physique et Chimie Marines, Université Pierre et Marie Curie in Paris and at the Institute of Meteorology at the University of Stockholm. He also served as a Senior Research Fellow at the East-West Center in Honolulu and as a Fellow at the Marine Policy and Ocean Management Program at the Woods Hole Oceanographic Institution.

Moore served as chair for the Scientific Committee of the International Geosphere-Biosphere Programme from 1998 to 2002. He also has been engaged with senior management of NASA in a variety of roles, including chairing its highest-ranking science and applications advisory committee, and has lent his leadership and expertise across a broad range of boards and committees of the National Academy of Science. Most recently, he was co-chair of the Academy's first Decadal Survey in Earth science and applications from space. He currently chairs or is the member of committees and boards for the National Research Council, Jet Propulsion Laboratory, Max Planck Institute for Meteorology, and University of New Hampshire Foundation.

In recognition of his lifelong dedication to science, he has been the recipient of numerous honors, including the NASA Distinguished Public Service Medal for outstanding service to the agency – NASA's highest civilian honor; the NOAA Administrator's Recognition Award; and the 2007 Dryden Lectureship in Research by the American Institute of Aeronautics and Astronautics.

EMORY UNIVERSITY

Debra Cooper

Jobe Award

*Ph.D. Candidate, Neuroscience
Second Year ARCS Scholar*



In 2006, Debra received her Bachelor of Science from Duke University, majoring in psychology and minoring in biology and chemistry. Combining these concentrations, she developed an interest in behavioral neuropharmacology. In particular, she focuses on studying the effects of drugs of abuse and relevant treatments. She was named the first winner of the Dolores Shockley Best Abstract competition at the 2010 Experimental Biology meeting, and more recently received a 3-year travel fellowship through the Neuroscience Scholars Program. She has co-authored

2 peer reviewed papers based on her work as a research assistant at Duke University and co-first authored a paper from her dissertation research at Emory University. She has spent the last year working diligently on her dissertation research and mentoring an undergraduate student working in the lab. She plans to use the funds this year for travel expenses to explore opportunities for possible career options. In her spare time, Debra enjoys reading, listening to music, and watching and playing sports.

Shannon Elf

Printpack/Love Award

*Ph.D. Candidate, Molecular and Systems Pharmacology
Second Year ARCS Scholar*



Shannon earned her B.A. in Biology and Music from Bowdoin College in Brunswick, Maine. As an undergraduate, Shannon was awarded an HMMI summer research fellowship, during which time she developed a profound interest in the molecular basis of leukemia. Following graduation, Shannon went on to work in renowned hematological oncology labs at Harvard Medical School and Memorial Sloan-Kettering Cancer Center, where she co-authored numerous publications, including those in *Nature Genetics*, *Cell Stem Cell*, and *MCB*. Since coming to Emory, Shannon has continued

her work on leukemia, and has co-authored publications in *JCI*, *Science Signaling*, and *MCB*, in addition to a recent first author publication in *Blood*. She was named an Emory Division Scholar in 2008, awarded the Pharmacological Sciences Training Grant in 2009 and 2010, and named an ARCS Foundation Scholar in 2010. After losing her father to cancer in 2008, Shannon's work has taken on tremendously personal meaning, deeply influencing her aspirations to advance the field of cancer research. She is an avid reader, baker, and singer, and loves visiting New England to spend time with her family.

EMORY UNIVERSITY

Katherine Gass

Joachim Herz Stiftung Award

*Ph.D. Candidate, Epidemiology
Second Year ARCS Scholar*



Katherine Gass was born and raised in Bellingham, WA. After completing her dual degree in Mathematics and Theatre at Oberlin College, she joined the Peace Corps. Katherine spent two years serving as a community health volunteer in rural Peru where she met great people, ate impressive amounts of ceviche, and found her calling in public health. Upon her return to the States, Katherine spent a couple of years in DC working for a nonprofit involved in micronutrient fortification overseas. She then moved to Atlanta where she recently completed her M.P.H. in Global Epidemiology, focusing on the elimination of lymphatic filariasis.

Katherine is now happily enrolled in the doctoral degree program in epidemiology at The Rollins School of Public Health. In her "spare" time she also does consulting for the Task Force for Global Health to help with the elimination of lymphatic filariasis. She is using her ARCS Foundation Scholar Award to verify the elimination of lymphatic filariasis from Tonga using a novel cellphone data gathering system, which she will be teaching to local health workers.

Erin Keebaugh

ARCS Membership Award

*Ph.D. Candidate, Population Biology, Ecology and Evolution
First Year ARCS Scholar*



While earning a B.S. in Genetics at the University of Georgia, Erin worked in a plant genome mapping laboratory and participated in ecological field research projects in Costa Rica. After graduating, Erin worked as a lab technician and co-authored two publications. Erin's research background in genetics and ecology helped define her main research interest: how species interactions shape molecular evolution. She is now a graduate student at Emory University studying the molecular biology and evolution of fruit fly immunity genes, and has presented her work at a number of scientific conferences and published a first author paper.

Her career goal is to become a tenured professor. In her free time, Erin enjoys spending time in nature.

EMORY UNIVERSITY

Devon Livingston-Rosanoff

Glenn Award

*M.D./Ph.D. Candidate, Microbiology and Immunology
Second Year ARCS Scholar*

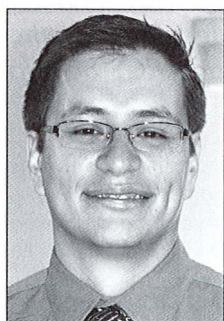


Devon graduated from the University of Washington with degrees in Biochemistry and Russian Language and Literature. In 2006, she matriculated into Emory's M.D./Ph.D. Program and is working on her Ph.D. under the guidance of Edward Mocarski and studying cytomegalovirus pathogenesis. Data from this lab research have been published in journals such as the *Journal of Virology* and *Nature* and presented at international meetings. Devon is currently working on her first primary author paper describing a pathologic role that T cells play in mediating disease in cytomegalovirus infection. Receiving the ARCS Foundation funds will allow Devon to attend conferences where she will present her data and discuss the findings with experts in her field of research.

Danny Mancheno

ARCS Century Award

*Ph.D. Candidate, Chemistry
First Year ARCS Scholar*



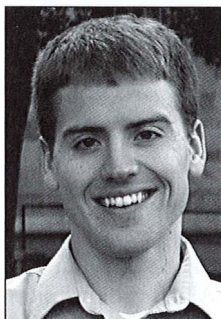
Danny Mancheno received a B.A. degree in chemistry from Queens College (CUNY) in 1998. Following graduation he obtained a position as a staff chemist at Merck & Company. During his tenure at Merck, Danny worked on projects that focused on infectious diseases, cholesterol and type 2 diabetes. Additionally, Danny was involved in the early and late stage development of the manufacturing route for Isentress, a drug currently used to treat HIV infections. In 2008, Danny started his Ph.D. studies at Emory University under the supervision of Dr. Simon Blakey. His first project on the aminoacetoxylation of olefins was published in 2010. His current research involves the total synthesis of Malagashanine, a potent chemosensitizer of malaria. Outside of the lab, Danny is an avid soccer player.

EMORY UNIVERSITY

Kevin Ogden

Donnell Award

*Ph.D. Candidate, Molecular and Systems Pharmacology
Second Year ARCS Scholar*



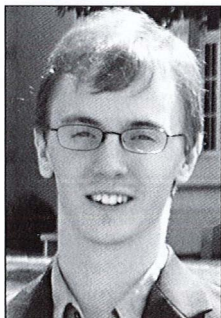
Kevin Ogden graduated in 2007 with a B.S. in Physiology from Michigan State University, where he studied the causes of hypertension and published two papers on the role of serotonin in high blood pressure. Upon entering Emory University, Kevin was awarded a George W. Woodruff Fellowship from the Laney Graduate School to pursue a Ph.D. in Molecular and Systems Pharmacology. His current research focuses on cellular communication in the brain and how disruption of this communication can lead to diseases such as schizophrenia and Alzheimer's disease. With funds from ARCS Foundation, Kevin intends to build

an electrophysiological rig for measuring electrical impulses from cells of the brain and to travel to Washington, D.C. to present his research findings at the Society for Neuroscience Annual Meeting. After graduating from Emory, Kevin aspires to continue research on the molecular basis of neurological diseases. When not in lab, Kevin enjoys road bicycling, playing soccer, computer programming, and home brewing.

Tim Sampson

Turner Award

*Ph.D. Candidate, Microbiology and Molecular Genetics
Second Year ARCS Scholar*



Tim received his undergraduate degree in Microbiology from the University of Pittsburgh in 2008, where he characterized novel bacteriophages of the *Mycobacteria*. Currently, Tim is a fourth year microbiology graduate student in the laboratory of David Weiss. His current work studies how notable bacterial pathogens suppress our immune system and ultimately cause disease. In particular, his projects focus on the ability of bacteria, such as *Francisella tularensis* and *Bacillus anthracis*, to hide their surfaces and prevent recognition by our immune cells. This work was honored with a fellowship from the NSF in 2010. Outside of the laboratory, Tim is an avid bread baker and home cook.

EMORY UNIVERSITY

Nikki Sawyer

ARCS Century Award

Ph.D. Candidate, Neuroscience

First Year ARCS Scholar



Nikki Sawyer graduated from Clayton State University in 2007 with a B.S. in Biology with a minor in Chemistry. Nikki conducted undergraduate research with Dr. Stephen Burnett studying echolocation of big brown bats and with Dr. Kai McCormack studying the effects of early life stress in rhesus macaques. She is currently in the lab of Dr. Andrew Escayg looking at the relationship between stress and epilepsy in two rodent models of epilepsy. Nikki has published one review article on stress and epilepsy, and she is currently working on the manuscript for two original research articles, with plans for two additional publications before defending

her thesis. Nikki lives with her husband and enjoys reading, gardening, traveling, and nature.

Kristin Wall

Joachim Herz Stiftung/ Global Impact Award

Ph.D. Candidate, Epidemiology

First Year ARCS Scholar



Kristin studied Biomedical Engineering at the University of Texas at Austin where she was active in research of novel microscopy techniques for early detection of breast cancer. After receiving a M.S. in Epidemiology from the University of Texas Houston Health Science Center, she began studying at Emory University where she is currently a Ph.D. candidate in Epidemiology. Her current research interests are in couples' HIV voluntary counseling and testing promotion, scale-up, and integration with other health services. Kristin has published 10 papers in peer-reviewed journals, with an additional 6 papers currently in review and 6 first-author manuscripts. Prior to beginning her Ph.D. studies, Kristin worked in the CDC Atlanta Malaria Branch. Aside from her research and teaching responsibilities, she enjoys traveling and studying languages.

EMORY UNIVERSITY



If the United States is to continue to lead the world in science and technology, it must attract, train and employ its best and brightest students to become the next generation of scientist/scholars. Sometimes the country tends to lose sight of this important mission. ARCS Foundation remains one of the true and consistent friends of all fields of science, supporting and encouraging students to pursue research and teaching careers. Very few institutions address this need, so ARCS Foundation is an important, much-needed champion of science education.



DR. DONALD STEIN, Ph.D.

*Asa G. Candler Professor of Emergency Medicine
Director, Brain Research Laboratory
Emory School of Medicine*

GEORGIA INSTITUTE OF TECHNOLOGY

Todd Bandhauer

Drummond Award

*Ph.D. Candidate, Mechanical Engineering
First Year ARCS Scholar*

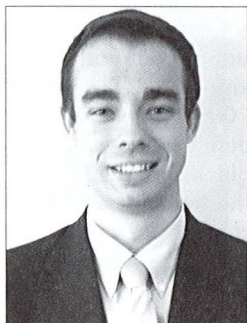


Todd received a B.S. with honors and M.S. from Iowa State University. He was employed at Modine Manufacturing Company, where he led the development of advanced concept thermal energy systems and components. He has several refereed publications and patents, and is the recipient of the Sandia National Laboratories graduate fellowship. He also received the National Football Foundation Scholar-Athlete Award, and was a 3-year letter winner in football and 2-time team elected captain at Iowa State. His graduation plans include working on energy production systems of critical global importance. He and his wife Karen have two children, Morgan and Mason.

James Belanger

Joachim Herz Stiftung/ Global Impact Award

*Ph.D. Candidate, Atmospheric Dynamics
First Year ARCS Scholar*



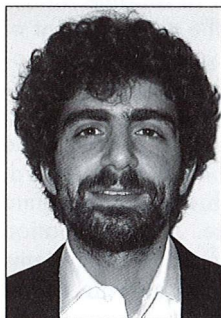
James is a fourth year Ph.D. student in the School of Earth and Atmospheric Sciences. He is an active member of American Geophysical Union and the American Meteorological Society and is currently the President of the Metro Atlanta Chapter of American Meteorological Society/National Weather Association. His research objective is to develop an operational forecasting system for tropical cyclones that can be used across the tropics but especially in vulnerable regions like the North Indian Ocean. The forecasting approach uses statistically rendered, dynamically-based ensemble forecasts to develop extended prediction of tropical cyclone genesis, track and maximum intensity in two weeks.

GEORGIA INSTITUTE OF TECHNOLOGY

Daniel Dadush

Cooley Award

*Ph.D. Candidate, Algorithms, Combinatorics and Optimization
Third Year ARCS Scholar*

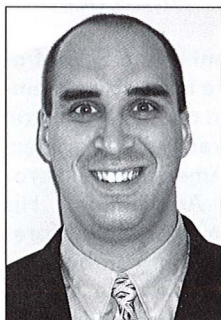


Daniel completed a B.S. in Mathematics at Brown University in 2006. He began his Ph.D. in Algorithms, Combinatorics and Optimization in August 2007. His primary interests are in optimization and convex geometry. His current research focuses on applying new tools in Convex Geometry and Computer Science to develop better algorithms for Integer Programming. Outside school, Daniel is an avid traveler who greatly enjoys learning about different languages and cultures.

Nicholas Earnhart

Graves/ARCS Membership Award

*Ph.D. Candidate, Mechanical Engineering, Acoustics
First Year ARCS Scholar*



Nick, who is from Hilton, New York, obtained a B.S. in Mechanical Engineering from Purdue University, during which time he completed five Co-Op rotations at GE in Fort Wayne, IN. Post-graduation, he worked as an intern at Rolls Royce in Indianapolis, IN. He began his post-graduate studies at the Georgia Institute of Technology in 2007 with a President's Fellowship. He received a M.S. in Mechanical Engineering in 2009 and is currently a Ph.D. Candidate in the field of Acoustics. His work is focused on developing compact noise control devices for fluid power systems.

GEORGIA INSTITUTE OF TECHNOLOGY

KSi/ARCS

Stephanie German

Century Award

*Ph.D. Candidate, Structural Engineering
First Year ARCS Scholar*



Stephanie is from Houston, Texas. With a B.S. in Architectural Engineering from the University of Texas at Austin and a M.S. in Civil Engineering from Georgia Tech, she is currently pursuing a Ph.D. in Civil Engineering at Georgia Tech. For the last two years, she has done research in the creation of machine vision detection of damage in reinforced concrete frame buildings for post-earthquake structural assessments. She is actively involved in the Earthquake Engineering Research Institute (EERI), where she currently serves as the Treasurer. She has also received honorable mention from the National Science Foundation Graduate Fellowship program.

Jacqueline Griffin

Chaddick Award

*Ph.D. Candidate, Industrial and Systems Engineering
Second Year ARCS Scholar*



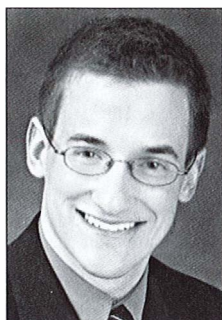
Jackie received a B.S. and M.S. in Industrial Engineering from Lehigh University and is currently pursuing her Ph.D. in Industrial and Systems Engineering. Her research interests include the use of mathematical modeling for decision making in health care delivery. Specifically, she has researched the impact of infrastructure and logistics in the equitable delivery of health care in Africa. In 2008, she travelled to Zambia to study World Vision's supply chain for deworming medicine. More recently, she has developed models to improve efficiency in hospital operations. Jackie is a Georgia Tech President's Fellow and received the National Defense Transportation Association Scholarship.

GEORGIA INSTITUTE OF TECHNOLOGY

Zachary Lochner

Hansen Award

*Ph.D. Candidate, Electrical and Computer Engineering
First Year ARCS Scholar*



Zachary is a native of Buffalo, NY. He received a B.S. degree in Electrical Engineering with minors in Computer Science and Mathematics from the University at Buffalo in 2007, and a M.S. degree in electrical engineering with a minor in materials science from the Georgia Institute of Technology in 2010. He has been an active member of the Institute of Electrical and Electronics Engineers, and has served as student Chapter treasurer and president. He is currently working towards a Ph.D. with research interests focusing on the development of GaN-based semiconductor devices such as heterojunction bipolar transistors and ultraviolet light emitting diodes.

Sarah Miracle

ARCS Membership Award

*Ph.D. Candidate, Algorithms, Combinatorics and Optimization
First Year ARCS Scholar*



In 2003, Sarah graduated from Vanderbilt University with a B.E. in Computer Engineering and Mathematics and a M.S. in Computer Science. She worked as an engineer and a manager at National Instruments in Austin, Texas for five years before returning to academia. In the fall of 2008, she started work on her Ph.D. in Algorithms, Combinatorics and Optimization at the Georgia Institute of Technology. Her advisor is Dr. Dana Randall, and her research interests include randomized algorithms and Markov chains. She is also the recipient of a DOE Office of Science Graduate Fellowship.

GEORGIA INSTITUTE OF TECHNOLOGY

Jacqueline O'Connor

UPS Award

*Ph.D. Candidate, Aerospace Engineering
Second Year ARCS Scholar*

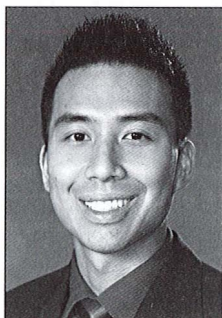


Jacqueline is a sixth-year Ph.D. candidate in Aerospace Engineering. Originally from South Windsor, Connecticut, she received her B.S. in Aeronautics and Astronautics from the Massachusetts Institute of Technology in 2006 and her M. S. in Aerospace Engineering from the Georgia Institute of Technology in 2009. Jacqueline was a National Science Foundation Graduate Fellow from 2006-2009 and has received awards from the AIAA, ASME, Wings Club, Zonta International, and GE Global Research, where she spent two summers as an intern in the Combustion Lab. Her graduate research focuses on the coupling between acoustics, fluid mechanics, and combustion in a swirl-stabilized flame under transverse acoustic forcing with application for gas turbine engines. She enjoys hiking and scuba diving and plays violin in the Galloway String Quartet, based in Atlanta. After graduation, she plans to pursue a post-doctoral position before applying to university faculty positions.

Eliot Quon

Siemens Award

*Ph.D. Candidate, Aerospace Engineering
Second Year ARCS Scholar*



Eliot is from San Francisco, California. He received his B.S. in Mechanical Engineering from Cornell University and is currently working towards a Ph.D. in Aerospace Engineering at Georgia Tech. He is a recipient of the 2010 and 2011 Vertical Flight Foundation Scholarships and is the current Atlanta student Chapter president of the American Helicopter Society. In the past he has studied the unsteady aerodynamics of airfoils with actively controlled flaps and has developed improved performance modeling techniques for rotorcraft. He is currently working on higher-order interpolation methods for computational fluid dynamics, with applications in wind turbines.

GEORGIA INSTITUTE OF TECHNOLOGY

Joshua Schultz

Liss/ARCS Membership Award

*Ph.D. Candidate, Mechanical Engineering
First Year ARCS Scholar*



Joshua is from Stoughton, Massachusetts. He received his B.S. in Mechanical Engineering from Tufts University and his M.S. in Mechanical Engineering from Vanderbilt University. He later worked in the power systems and motion control group at Lexmark International. Currently, he is pursuing his Ph.D. in Mechanical Engineering, studying muscle-like actuation for robotics. His research will appear in an upcoming issue of *ASME/IEEE Transactions on Mechatronics*. He is active in the Mechanical Engineering Graduate Association, serving as its President. Joshua plans to seek a faculty position following graduation. He enjoys weight training and fitness.



For more than 50 years ARCS Foundation has been providing scholar awards for the STEM fields. For more than 125 years Georgia Tech has been educating students in the STEM fields. We are very pleased to be partnering with you to be able to provide a stellar education to outstanding and deserving students.



DR. G. P. "BUD" PETERSON, Ph.D.

President, Georgia Institute of Technology



Morehouse College

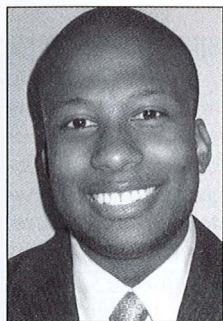
Jabari Elliott is a senior biology and chemistry double major from Stone Mountain, Georgia. He is son to Maurice and Barbara Elliott and has two older sisters. Jabari currently performs research under Dr. Young in a structural biology lab where he is attempting to solve the structure of gkrp, a protein involved in glucose uptake from the blood stream. Jabari has also performed research at Princeton University in the lab of Dr. Frederick Hughson, studying tethering proteins involved in retrograde transport. In the summer of 2011 Jabari performed research at Washington University in St. Louis studying the mechanisms of cataract formation under Dr. Usha Andley. Jabari plans on pursuing a M.D Ph.D in Internal medicine and biochemistry.

MOREHOUSE COLLEGE

Roy Llewellyn II

Zeist Award

*Junior, Physics Major
Second Year ARCS Scholar*



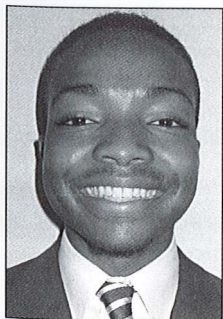
Roy is from Fontana, California and is currently pursuing a B.S. in Physics from Morehouse College. He is a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program, the National Society of Collegiate Scholars, and has been recently selected to participate in the Presidential Ambassador Program. Despite medical adversities which forced him to leave Morehouse College for a semester, he was able to return to the campus the following semester and continue his academic achievements. During the 2009-2010 academic school year, he conducted research with photovoltaic cells to discover ways to create more efficient yet cost effective systems. During the summer of 2010 he conducted

research in the Materials Research Science and Engineering Center at the Georgia Institution of Technology where he studied the thermal conductivity of monolayer graphene. This past summer he studied cooling methods for turbine blades in jet engines at Stanford University. Upon graduation, he plans to pursue a Masters Degree in Applied Physics and a Ph.D. in Electrical Engineering.

Joshua Mann

Sartain Lanier Award

*Sophomore, Applied Physics and Aerospace Engineering Major
First Year ARCS Scholar*



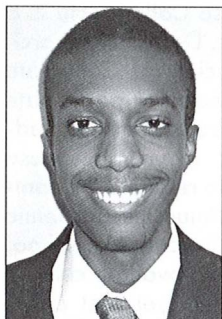
Joshua is a second year student attending Morehouse College majoring in Applied Physics and Aerospace Engineering through the Dual Degree Engineering Program. He is a second year student in the Dr. John. H. Hopps, Jr. Defense Research Scholars Program conducting research at Morehouse College in computing and particle physics and in electrical engineering this past summer. Beyond research and the classroom, Joshua serves as the Programs Director for the Atlanta University Center Chapter of the National Society of Black Engineers and as the Secretary for the Society of Physics Students at Morehouse College. Joshua also enjoys playing the alto saxophone.

MOREHOUSE COLLEGE

Myles Nicholson

Ritz-Carlton Award

*Junior, Computer Science Major
First year ARCS Scholar*

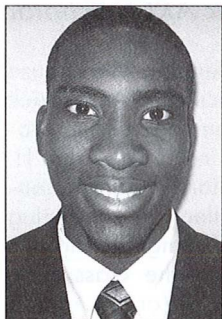


Myles is from Littleton, North Carolina, and is a junior majoring in Computer Science. For the past two summers, Myles developed a monitoring tool for the Earth Systems Grid Project and a web application for tracking internal tasking requests for the Counterproliferation Analysis and Planning System at the Lawrence Livermore National Laboratory in Livermore, CA. Myles is a tutor for Data Structures & Algorithms and Discrete Structures classes at Morehouse College. He is interested in pursuing a Ph.D. at the University of California – Berkeley where he will be conducting analysis on algorithms. Myles enjoys playing chess and programming for side projects in his spare time.

Jamaji Nwanaji-Enwerem

Berry/ARCS Membership Award

*Senior, Biology Major
Second Year ARCS Scholar*



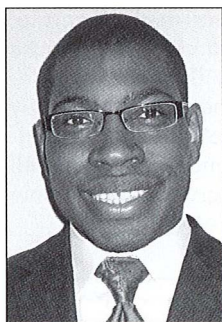
Jamaji is from Concord, North Carolina, and since his freshman year has been conducting research at Morehouse College as a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program. Moreover, Jamaji has spent his last three summers engaged in active research at Merck & Co, Wake Forest University and Duke University. His latest research project involved providing clinical developmental support for Odanacatib, a potential osteoporosis drug manufactured by Merck & Co. Upon graduation, he plans to pursue an M.D./Ph.D. in the biomedical sciences.

MOREHOUSE COLLEGE

Raymond Perkins

ARCS Membership Award

*Junior, Mathematics and Economics Major
First Year ARCS scholar*

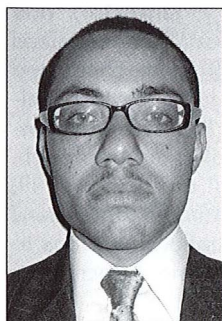


Raymond Perkins is a Mathematics and Economics major from Columbia, South Carolina. He is a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program, and a Jack H. Skirball Scholar. Last summer he performed mathematical finance research at the Mathematical Science Research Institute at the University of California. The previous summer he performed research in graph theory at Michigan State University. Raymond has presented his research nationally and was awarded first place for his presentation in Miami, Florida at the National Association of Mathematicians Undergraduate Conference in 2010. His postgraduate plans include pursuing a Ph.D. in Mathematics or Economics. Outside of research, Raymond loves to travel.

Ronald E. Stubblefield

Rice Award

*Senior, Physics and Mathematics Major
First Year ARCS Scholar*



Ronald is a Physics major from Silver Spring, Maryland. He is an active member of the Society of Physics students and a member of the Board of Directors for the National Society of Black Engineers. For the past year, he has performed computational research in reducing light intensity in the zero order at Morehouse College and has designed a system which will assist radiologists in cancer diagnosis at the University of Chicago. His future plans include graduate study in Medical Physics, as well as possibly obtaining a law degree.

MOREHOUSE COLLEGE

Susie Deyo

Lonnie Thomas Sullivan II

ARCS Light Award

*Junior, Biology Major
First Year ARCS Scholar*



Lonnie is a Biology Major from Woodstock, Georgia. He currently conducts stem cell research at Morehouse College as a part of the Emergent Behavior of Integrated Cellular Systems alliance. The aim of his study is to successfully produce a protocol for the differentiation of both Mesenchymal and Embryonic stem cell lines into skeletal muscle cells. Post graduation, Lonnie desires to pursue a Ph.D. in Microbiology.

Zollie White III

Meier Award

*Senior, Chemistry/Mathematics Major
Second Year ARCS Scholar*



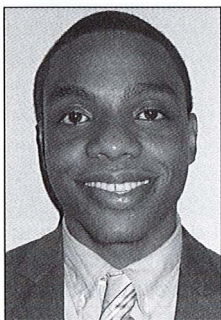
Zollie is a Senior Chemistry and Mathematics double major from Tallahassee, FL. As a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program, he is currently researching eigenvectors and eigenvalues of Hamiltonian operators in specialized representation. In the summer of 2010, he conducted research at Northwestern University in the Physical Sciences-Oncology Center (PS-OC) on the thermodynamics and kinetics of DNA using a biophysical approach. He has gained honors in Calculus II and Calculus III. Outside of school, he plays soccer, trumpet, and listens to music, especially jazz. Post-graduation, he plans to explore more topics in the realm of biophysics, biochemistry, and chemical engineering.

MOREHOUSE COLLEGE

Cameron Wilkinson

**Zeist/ARCS
Century Award**

*Senior, Chemistry Major
First Year ARCS Scholar*



Cameron is from Old Bridge, New Jersey. He is an active member of the Morehouse College Peer Lead Team Learning Program where he tutors Biology, Organic Chemistry and Mechanics. He is also a committed member of the Morehouse Chemistry Club. For the past academic year, Cameron studied new techniques for the synthesis of organic molecules via palladium catalyzed cross coupling reactions. His postgraduate plans include pursuing an M.D./Ph.D. in the field of Biochemistry or Epigenetics.



Almost 10 years ago, I received a scholar award from the Atlanta Chapter of ARCS Foundation that supported an invaluable research experience at Morehouse College. This experience opened my eyes to the numerous possibilities as a scientist and has led me to the savannahs of Kenya to research yellow baboons and to the coast of Maine to study intertidal snails. Ultimately this odyssey that started with an ARCS Foundation Scholar Award has led me back to Georgia, where I am an Assistant Professor in the field of Stem Cell and Regenerative Biology at the University of Georgia. The support I received from ARCS Foundation made a definite and long-lasting impact on my career and desire to be a scientist.



DR. FRANKLIN WEST, Ph.D.
ARCS Foundation Scholar

UNIVERSITY OF GEORGIA

Phillip Callihan

Adams Award

*Ph.D. Candidate, Pharmaceutical and Biomedical Sciences
Second Year ARCS Scholar*



Phillip is from Atlanta and in 2007 earned a Bachelor of Science in Biology from the University of Georgia. He is an active member of the American Society for Pharmacology and Experimental Therapeutics (ASPET), the American Association of Pharmaceutical Scientists (AAPS), and UGA Graduate Students and Postdocs in Science (GSPS). Phillip served as the Executive Chair of the UGA Student Chapter of AAPS and the Executive Chair of UGA GSPS. His research focuses on G protein coupled receptor signaling in neural development and cancer. Currently, he is studying the role of lysophospholipids in the differentiation of human neural progenitor cells. After graduation, he plans to pursue an M.D. and a career in academic medicine.

Jason Mock

Mauldin Award

*Ph.D. Candidate, Pharmaceutical and Biomedical Sciences
First Year ARCS Scholar*



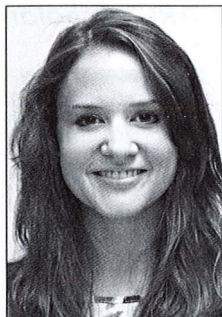
Jason is from Dalton, Georgia. He graduated with B.S. degrees in Applied Biotechnology and in Agricultural and Applied Economics from UGA in 2008. The following year he joined the Department of Pharmaceutical and Biomedical Science at UGA, where he focuses on nanoparticulate drug delivery. Specifically, Jason is using differences in enzyme expression between cancer cells and healthy tissue as a means of targeting lipid-based delivery vectors in a prostate cancer model. Jason has served as the Community Outreach Chair for the Graduate Student and Postdoc in Science association and as the Vice-Chair and Chair of the UGA Chapter of the American Association of Pharmaceutical Scientists. He is also a UGA Graduate School 2011 Emerging Leader and a 2011 AFPE Fellow. After graduating, he plans to pursue a career in intellectual property pertaining to pharmaceutical and biotech innovations.

UNIVERSITY OF GEORGIA

Jenna Oberstaller Gilham/ARCS Membership Award

Ph.D. Candidate, Genetics

First Year ARCS Scholar



Jenna graduated from The University of South Carolina in 2007 with a B.S. in Biological Sciences. She is currently pursuing her Ph.D. with Dr. Jessie Kissinger of the Department of Genetics and the Center for Tropical and Emerging Global Diseases. Her primary research interests are using genomics to (1) study evolution of gene regulatory networks in apicomplexan parasites, and to (2) develop malaria diagnostic targets. Jenna is the recipient of the Genetics Department Kirby and Jan Alton Fellowship for 2010-11, as well as two Training

Innovations in Parasitological Studies Fellowships from the Ellison Medical Foundation to field-test malaria diagnostic assays in Tanzania and Thailand (2010-12). Her work to develop more sensitive diagnostic assays for the two most widespread human malaria parasites was published in the *Journal of Clinical Microbiology* in July. She intends to pursue a career in parasitology research that can be applied to addressing global health crises.

Kathryn Porter

ARCS Membership Award

Ph.D. Candidate, Foods and Nutrition

First Year ARCS Scholar



Katie is from Stockbridge, Georgia, and earned her Bachelor of Science degree in Exercise and Sports Science in 2006 from the University of Georgia. In 2007, she joined the Cooper Aerobic Center in Dallas, Texas, where she worked with older adults with osteoporosis, arthritis, and Parkinson's disease, helping them increase and maintain their fitness levels despite the onset of debilitating diseases. In 2008, Katie returned to the University of Georgia where she earned her Master of Science degree in Foods and Nutrition and

completed the requirements for becoming a Registered Dietitian. Currently, Katie is a doctoral candidate in Foods and Nutrition, as well as completing a Certificate in Gerontology, under the direction of Dr. Mary Ann Johnson. Her area of focus is obesity and its relationship to mental health, eating behaviors, dietary patterns, and food insecurity in older adults. She is co-author of four peer-reviewed publications regarding aging, nutrition, and physical activity in older adults and in the past year has been awarded the Virginia M. Smyth Scholarship from the Georgia Gerontology Society and the Glenn and Helen Burton Feeding the Hungry Scholarship for her work with older adults. After graduation, Katie plans to continue her research in aging and obesity.

UNIVERSITY OF GEORGIA

Bonney Reed-Knight

Burtchaell Award

*Ph.D. Candidate, Clinical Psychology
Second Year ARCS Scholar*



Bonney is from Habersham County, Georgia, and received her B.S. in Psychology from The University of Georgia in 2007. She is currently pursuing a Ph.D. in Clinical Psychology at the University of Georgia under the supervision of Dr. Ronald L. Blount. In 2010, Bonney earned her M.S. in Psychology for her study of disease, individual, and familial factors associated with medication nonadherence in youth with Inflammatory Bowel Disease. Recently, Bonney has been researching medical outcomes associated with nonadherence as well as health related quality of life issues for pediatric solid organ transplant recipients. She intends to continue pediatric health research in the future, with particular interest in applying psychological research to improve disease outcomes and quality of life in youth with gastrointestinal disorders. This academic year Bonney will be applying for pre-doctoral internship positions. Following graduation, she plans to pursue a postdoctoral position in pediatric psychology and to develop an independent research career.

Julie Rushmore

Dick Award

*Ph.D. Candidate, Veterinary Medicine and Ecology
Second Year ARCS Scholar*



Julie graduated from Duke University in 2006 with a B.S. in Biological Anthropology. After taking a year away from school to conduct field research in Madagascar and learn lab techniques at the University of Georgia, Julie entered UGA's D.V.M./Ph.D. program where she is receiving training in veterinary medicine and disease ecology. Julie is interested in studying the interface of public health, disease ecology, and wildlife conservation. As a 2009-2010 Fulbright Fellow, Julie spent a year studying health and behavior in a wild chimpanzee community in western Uganda. Her research focuses on behavioral and ecological factors that affect disease transmission dynamics in wild great apes. Julie was recently awarded a Wildlife Health Training Grant from the Morris Animal Foundation, and her research receives support from Conservation International and the US Fish and Wildlife Service among others. After graduating, Julie plans to pursue a job that addresses public health and wildlife conservation issues in Africa.

UNIVERSITY OF GEORGIA

Alecia Septer

ARCS Century Award

Ph.D. Candidate, Microbiology

Second Year ARCS Scholar



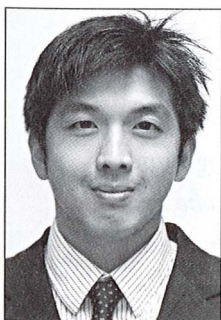
Alecia is from Gahanna, Ohio, and earned a B.S. in Microbiology from The Ohio State University. She has been awarded a UGA Graduate School Assistantship, a National Defense Science and Engineering Graduate Fellowship from the Department of Defense, and the Jack and Jane Payne Fellowship in Microbiology. Alecia has served as President of both the Microbiology Graduate Student Association and university-wide organization of Graduate Students and Postdocs in Science. For her dissertation work, Alecia uses a squid model system to study how environmental cues regulate bacterial communication as they colonize their host.

Timothy Shaw

Joachim Herz Stiftung/ Global Impact Award

Ph.D. Candidate, Bioinformatics

First Year ARCS Scholar



Timothy received his B.S. in Computer Science from the Georgia Institute of Technology in 2008. He is currently pursuing a Ph.D. in Bioinformatics under the guidance of Dr. Ming Zhang. While serving as President for the Bioinformatics Graduate Student Association for the year 2010-2011, he promoted interdisciplinary research within the UGA student community. Timothy is greatly interested in investigating genetic patterns that facilitate efficient HIV transmission and disease progression. He is currently developing methods for modeling HIV RNA secondary structure and novel Shannon entropy approaches to examine worldwide HIV diversity, which is critical to HIV vaccine development. His developed methods will be used to address HIV diversity in HIV/TB co-infection in Uganda and China. Following graduation, Timothy plans to pursue a bioinformatic research career, applying multi-disciplinary technologies to address global infectious diseases.

UNIVERSITY OF GEORGIA

Katherine Verbist

ARCS Century Award

*Ph.D. Candidate, Cellular Biology
First Year ARCS Scholar*



Katherine was introduced to laboratory research as an undergraduate at Furman University, where she studied antibiotic resistance in local *E. coli* populations. After earning a B.S. in Biology and B.A. in Latin in 2007, she joined the Department of Cellular Biology at the University of Georgia and began pursuing a Ph.D. under the supervision of Dr. Kimberly Klonowski. At UGA Katherine's research focuses on how cytokines influence CD8 T-cell responses to influenza infections. After she graduates, Katherine plans to pursue a postdoctoral position and to continue researching the cellular basis for immunity to mucosal infections like influenza.



The impact of any university research enterprise depends ultimately on the quality of its graduate students. They are the life blood of all academic research efforts, which is why President Adams recently set a goal of enhancing UGA's graduate programs. The ARCS Scholars Program has been invaluable in helping UGA elevate the stature of its life science graduate programs, in particular. The honor it bestows upon those who are selected for the award motivates our students to reach higher, and the award also comes with important practical benefits in the form of discretionary funds that empower our best students. We could not be more grateful to ARCS Foundation for its support.



DR. DAVID LEE, Ph.D.

*Vice President for Research
University of Georgia*

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