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THE ANNUAL SCHOLAR AWARDS

LUNCHEON

2012



ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS FOUNDATION, INC.

ATLANTA CHAPTER SCHOLAR AWARDS LUNCHEON 2012

ARCS® FOUNDATION MISSION STATEMENT

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.

arcsfoundation.org

ARCS® Foundation Advancing Science in America is registered in the U.S. Patent & Trademark Office.

From the President

It is with pleasure that I welcome you to the 21st annual ARCS Foundation Atlanta Scholar Awards Luncheon. We are here to celebrate the achievements of 40 young women and men who are some of our country's future scientists.

Our desire is to support scholars who spend many years preparing for their careers in science. Science affects us every day of our lives and we are proud to support young scientists who will improve and expand such fields as public health, medicine, the environment, industry, communications, computer technology and engineering.

As we celebrate our 20 year history, ARCS Foundation Atlanta is proud that we have grown from awarding 3 scholars a total of \$15,000 to awarding 40 scholars a total of \$285,000. It is you our members, corporate donors, foundations and friends that have made this possible. Thank you. Since 1992, ARCS Foundation Atlanta will have awarded a cumulative total of more than \$2.7 million to scholars at Emory University, Georgia Institute of Technology, the University of Georgia and Morehouse College.

The Atlanta Chapter has grown from 16 founding members and 20 charter members in 1992 to the current 146 active and associate members. How proud they must be of our growth and accomplishments.

A special thanks is due the accounting firm Habif, Arogeti & Wynne, LLP, who have generously underwritten today's luncheon. Also we thank Frances Swensson and her committee for making today's Scholar Awards Luncheon a memorable celebration.

Gracia Conn President, ARCS Foundation Atlanta Chapter November 14, 2012

ACHIEVEMENT REWARDS FOR COLLEGE SCIENTISTS FOUNDATION, INC.

ATLANTA CHAPTER 2012 SCHOLAR AWARDS LUNCHEON THE RITZ-CARLTON, ATLANTA

PROGRAM

Welcome

Gracia Conn, President
ARCS Foundation Atlanta Chapter

Invocation

The Rev'd Geoffrey M. St.J. Hoare All Saints' Episcopal Church, Atlanta, Georgia

LUNCHEON

Introduction of Keynote Speaker
Gracia Conn

Keynote Speaker Dr. Daniel L. Barrow

MBNA/Bowman Professor and Chairman,
Department of Neurosurgery
Chief of Neurosurgery Service at Emory University Hospital
Director, Emory MBNA Stroke Center

Moderator

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

Closing Remarks
Gracia Conn

ARCS® FOUNDATION HISTORY AND ACHIEVEMENTS

ARCS Foundation, Inc. is a national organization dedicated to supporting the best and brightest U.S. graduate and undergraduate scholars by providing financial awards in science, engineering and medical research.

ARCS Foundation was formed in 1958 in Los Angeles in response to Sputnik and the perceived lack of U.S. supremacy in the technology race. Since then, ARCS Foundation has provided more than 14,000 scholar awards totaling nearly \$83 million at 53 universities, and has grown to more than 1,600 members in 17 Chapters across the United States. More than \$4.1 million was awarded in academic year 2011-2012.

Much has happened in the years since ARCS Foundation was established, but some things never change:

- 100 percent of contributions go directly to fund scholars.
- Recipient schools are qualified through rigorous eligibility requirements.
- Schools select scholars based on academic achievement without regard for race, creed or gender.
- Scholars are U.S. citizens and students of high achievement in the basic sciences.
- ARCS Foundation scholar awards funds are raised and distributed locally.
- ARCS Foundation is an all-women volunteer organization.

The following observation from Dr. Richard A. DeMillo, Distinguished Professor and Director of the Center for 21st Century Universities at Georgia Institute of Technology, truly articulates the vision and the achievements of this unique and important organization:

ARCS Foundation has from its inception been dedicated to the renewal of the science-based workforce. Its success has been stunning. [....] If all of the ARCS Scholars gathered in one place, they would be in the top rank of world universities, a remarkable achievement for a small group of women whose goal was to help American scientists compete with Sputnik.



"According to the Global Innovation Index, in 2012 the U.S. dropped to the tenth most innovative country from ranking just one year earlier as the seventh most innovative country. And as we all know, innovation is linked to skills and abilities in science, technology and math, combined with a dose of creativity. The work that ARCS Foundation does, and the reason for Habif, Arogeti & Wynne, LLP's ongoing support, can directly impact that statistic and get it moving in a different direction. Now more than at any other time in our history, higher education in sciences and technology is critical. We know because we live it every day, as we guide and work with many of the most recognizable brands in the technology industry in the Southeast who are always looking for the right talent. Keep up the good work ARCS Foundation."

- Jana Bledsoe, CPA Partner

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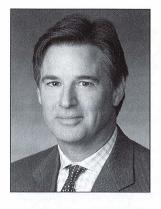
The Board of Directors of the Atlanta Chapter of ARCS Foundation extends special appreciation to the following whose time and talents contributed to the success of our annual celebration.

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Daniel L. Barrow, M.D. Emory University

Daniel Louis Barrow graduated magna cum laude from Westminster College and received his M.D. degree from Southern Illinois University School of Medicine. His general surgery internship and neurosurgical residency were at Emory University and neurology training at Massachusetts General Hospital. He completed a fellowship in cerebrovascular surgery at the Mayo Clinic

in Rochester, MN and additional training at the Barrow Neurological Institute in Phoenix. He is the MCNA/Bowman Professor and Chairman of the Department of Neurosurgery and Director of the Emory Stroke Center at Emory University School of Medicine.

Dr. Barrow, author of more than 250 scientific articles and chapters in medical textbooks, has also authored or edited fourteen monographs, including a major textbook, *The Practice of Neurosurgery*. He has been a visiting professor at major universities throughout North America, Europe, Africa and Asia. His research interests have focused on cerebrovascular disease and stroke. Dr. Barrow's many awards include induction into the honorary medical society, Alpha Omega Alpha. He was the 2010 Honored Guest of the Congress of Neurological Surgeons, and in 1997 received the Distinguished Alumnus Award from Southern Illinois University School of Medicine, and in 1998 received the Alumni Achievement Award from Westminster College.

Active in organized neurosurgery, and holding a variety of leadership and editorial positions, he was on the Executive Committee of the CNS from 1989 to 2001, serving as Scientific Program Committee chairman (1991), Annual Meeting Committee chairman (1992), Secretary (1992-1995), and President (1999-2000). He was President of the Georgia Neurosurgical Society and member of the AANS/CNS Washington Committee. Dr. Barrow has been on the editorial boards of Clinical Neurosurgery, Neurosurgery, Neurosurgical Consultations, Neurologia Medico Chirugica, The Journal of the Korean Neurosurgical Society; has co-edited Contemporary Neurosurgery (1985-1995); edited Perspectives in Neurological Surgery (1989-1992); and chaired the AANS Publications Committee. He has been a Director of the American Board of Neurological Surgery and served as Secretary and Chairman of the Board. He is past Vice President and currently Treasurer of the American Academy of Neurological Surgeons.

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JAMES W. WAGNER, PRESIDENT



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.

DONALD STEIN, Ph.D.

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

Debra Cooper

Jobe Award

Ph.D. Candidate, Neuroscience Third 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, has received numerous travel grants to attend scientific meetings, and is currently on the NIDA sponsored Drug Abuse Training Grant. She has cofirst authored a paper from her dissertation research

at Emory University, as well as co-authored three additional peer reviewed papers. Debra has also helped mentor undergraduates and rotating graduate students working in the lab. 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 Third 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 publica-

tions in JCI, Science Signaling, and MCB, in addition to a recent first author publication in *Blood* and second author publication in *Cancer Cell*. She is currently working on developing novel therapeutic strategies to treat hematological malignancies by targeting metabolic enzymes that are over-expressed or over-activated in cancer cells. 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. She is an avid reader, baker, and singer.

Katherine Gass

ARCS Membership Award

Ph.D. Candidate, Epidemiology Third 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 fila-

riasis. 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 study the effects of ambient air pollution exposure on respiratory and cardiovascular disease in Atlanta.

Erin Keebaugh

ARCS Century Award

Ph.D. Candidate, Population Biology, Ecology and Evolution Second 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 and

co-author paper. Her career goal is to become a professor. In her free time, Erin enjoys spending time in nature.

Matthew Magee

Joachim Herz Stiftung/ Global Impact Award

Ph.D. Candidate, Epidemiology First Year ARCS Scholar



Matthew Magee studied sociology and Spanish at Grinnell College, graduating in 2001. Following his undergraduate study, Matthew received a Thomas J. Watson Fellowship to research hepatitis C virus in Italy, India and Australia. In 2002 he returned to Chicago where he earned his M.P.H. in epidemiology from the University of Illinois. While there, he was awarded a David Boren Fellowship to research HIV and tuberculosis among injection drug users in Delhi, India. Matthew worked for the Asian Health Coalition of Illinois for three years as Senior Program Manager prior to beginning his PH.D. work at Emory. His dissertation investigates the impact of diabetes mellitus on tuberculosis treatment. As a hobby, Matthew enjoys cooking Mexican cuisine.

Danny Mancheno

Glenn Award

Ph.D. Candidate, Chemistry Second 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 process 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 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 Demethoxymyrtoidine, a potent chemosensitizer of malaria. Outside of the lab, Danny is an avid soccer player.

Kevin Oqden

Donnell Award

Ogden Donnell Award
Ph.D. Candidate, Molecular and Systems Pharmacology Third Year ARCS Scholar



Kevin Ogden graduated in 2007 with a B.S. in Physioloay from Michiaan 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 com-

plete studies exploring how new compounds may be used to treat neurological disorders and to travel to New Orleans 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 bike racing, computer programming, and home brewing.

Tim Sampson

Turner Award

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



Tim received his B.S. in Microbiology in 2008 from the University of Pittsburgh, where he studied viral genetic diversity. Currently, Tim is a Ph.D. student in microbiology in the laboratory of David Weiss. Here, his work focuses on the way that bacteria escape detection by our immune system. Specifically, he is interested in how bacteria regulate immune activating components of their outer surface. Insights from his current work may provide the foundation for future development of antibacterial drugs and vaccines. Outside of the laboratory, Tim enjoys time outdoors with his wife, Maureen. He is an avid bread baker and home cook and has recently become a homebrewer.

Nikki Sawyer

Correll/ARCS Membership Award

Ph.D. Candidate, Neuroscience Second 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's research has shown that stress affects the epileptic brain differently from a normal brain, and she is finishing her thesis work by examining the mechanism by which stress triggers seizures in the epileptic brain. Nikki lives with her husband and enjoys reading, gardening, traveling, and nature.

Kristin Wall

ARCS Century Award

Ph.D. Candidate, Epidemiology Second 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 an 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 17 papers in peer-reviewed journals, with 6 first-author manuscripts and an additional 5 papers currently in preparation. 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.



G.P. "BUD" PETERSON, PRESIDENT



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.



G. P. "BUD" PETERSON, Ph.D. President, Georgia Institute of Technology

Candace Brakewood

Drummond Award

Ph.D. Candidate, Civil Engineering
First Year ARCS Scholar



Candace is pursuing her doctorate in Civil Engineering at Georgia Institute of Technology. Her academic interests are in public transportation planning and operations, and her doctoral research focuses on the utilization of new information and communication technologies by public transit riders. She has two Master's degrees from the Massachusetts Institute of Technology: one in Transportation and the second in Technology and Policy. She also has a B.S. in Mechanical Engineering from Johns Hopkins University. Before attending graduate school, Candace worked as a Patent Examiner at the United States Patent and Trademark Office.

Greq Droge

Moseley/ARCSCenturyAward

Ph.D. Candidate, Electrical Engineering First Year ARCS Scholar



Greg is from Bountiful, Utah and is currently a fourth year Ph.D. student in the department of Electrical Engineering at Georgia Institute of Technology. His research interests include multi-robot coordination and distributed optimization. He graduated Magna Cum Laude with a B.S. from Brigham Young University and received a M.S. Degree from Georgia Tech. He was awarded with a Presidential Fellowship in 2009 and named a SMART scholar in 2011. He has also been involved in promoting science and engineering education through the SLIDER program, implementing an eighth grade science curriculum based on robotics and engineering concepts.

Nicholas Earnhart

Graves Award

Ph.D. Candidate, Mechanical Engineering Second 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 an 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.

Jamie Montague Fischer

UPS Award

Ph.D. Candidate, Civil Engineering
First Year ARCS Scholar



Through her doctoral research, Jamie works with state and local government agencies to measure the effects that transportation systems have on the quality of people. After graduation, she hopes to stay in Atlanta and to help improve the transportation system here. She is a committee member and contributing author in the Transportation Research Board, and a recipient of the 2012-2013 Eisenhower Fellowship. In her personal life, Jamie enjoys mentoring a group of 11-14 year old youth in her neighborhood, singing and playing flute, reading and writing poetry and fiction, cooking and spending time with friends and family.

Stephanie German

Joachim Herz Stiftung/ Global Impact Award

Ph.D. Candidate, Structural Engineering Second Year ARCS Scholar



Stephanie is from Houston, Texas. With a B.S. in Architectural Engineering from the University of Texas at Austin and an 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.

Warren Dale Gray Joachim Herz Stiftung Award

Ph. D. Candidate, Biomedical Engineering Wallace H. Coulter School of Biomedical Engineering (a Joint Program between Emory and Georgia Tech) First Year ARCS Scholar



Originally hailing from Oregon City, Oregon, Warren attended Oregon State University, where he graduated Summa Cum Laude with an Honors B.S. in Chemical Engineering. His graduate work in Biomedical Engineering involves developing therapeutic systems for patients who have suffered heart attacks. Warren recently returned from a year abroad in Beijing, China, where he conducted research as a Whitaker International Fellow at Peking University on the design and synthesis of novel nanocarriers for microRNA delivery. Outside the lab, he enjoys training for road races and leading the choir at his local church congregation.

Zachary Lochner

Hansen Award

Ph.D. Candidate, Electrical and Computer Engineering Second 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 an 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 toward 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

Jones Award

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



In 2003, Sarah graduated from Vanderbilt University with a B.E. in Computer Engineering and Mathematics and an 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.

Nathan Mlot

Liss/ARCS Membership Award

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



Nathan is from Raleigh, North Carolina, where he received his B.S. in Mechanical Engineering at North Carolina State University. He then moved to Atlanta to attend Georgia Tech, where he is currently pursuing a Ph.D. His current research pursuits lie in the area of biomechanics. Specifically, he is studying the swarm behavior of fire ants for the purpose of understanding the role of the individual in cooperative multi-agent systems. The study has applications in modular robotics. His recent publication has been featured on National Public Radio's program, "Science Fridays" and on National Geographic's web site. Nathan enjoys using his free time outdoors hiking or biking with his wife, Samantha.

Temi Olubanjo

ARCS Membership Award

Ph.D. Candidate, Electrical Engineering First Year ARCS Scholar



Temi Olubanjo, originally from Lagos, Nigeria, relocated to Texas in 2004. She attained her B.S. in Electrical Engineering from the University of Texas-Austin in December, 2010. She next worked as an Instrumentation Engineer for Dow Chemical Company in Houston. In January 2012, Temi started her Ph.D. program in Electrical Engineering at Georgia Institute of Technology where she has maintained a 4.0 G.P.A. Her research interest is in System Design for Communication and Biomedical Applications and her research project is on the development of a Pharmaceutical Compliance System. Temi's free-time pursuits include dancing and spending time with family.

Eliot Quon

Siemens Award

Ph.D. Candidate, Aerospace Engineering
Third Year ARCS Scholar



Eliot is from San Francisco, California. He received his B.S. in Mechanical Engineering from Cornell University and is currently working toward a Ph.D. in Aerospace Engineering at Georgia Tech. He is the current Atlanta student chapter president of the American Helicopter Society and a recipient of the 2010 and 2011 Vertical Flight Foundation Scholarships. In the past he has worked at NASA Ames Research Center and Sikorsky Aircraft. He is currently working on improved hybrid modeling techniques and developing higher-order interpolation methods for computational fluid dynamics, with applications in rotorcraft and wind turbines. In his free time Eliot enjoys biking and playing the guitar.

Carol Young

Cooley Award

Ph.D. Candidate, Robotics Engineering First Year ARCS Scholar



Carol Young, of Savannah, Georgia, graduated from Rensselaer Polytechnic Institute with a dual major in Aeronautical Engineering and Mechanical Engineering. She spent a year working at Electric Boat before heading back to school to pursue a Ph.D. in Robotics Engineering at Georgia Institute of Technology. Carol hopes to apply her degree to sea or space exploration, and her current research goals include creating a framework for Autonomous Water Vehicles to interact in a close and safe manner with human swimmers.



ROBERT M. FRANKLIN, PRESIDENT



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.



FRANKLIN WEST, Ph.D.

ARCS Foundation Scholar

Roy Llewellyn II

Zeist Award

Senior, Physics Major Third 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 the Presidential Ambassador Program at Morehouse College. Despite medical adversities which forced him to leave Morehouse for a semester, he was able to return to the campus the following semester and continue his academic achievements. While at Morehouse, he works in the Micro Optics Research and Engineering Lab where he studies Metamaterials. In summer 2010 he conducted research at Georgia Institute of Technology in the Materials Research Science

and Engineering Center, studying momolayer Graphene. In summer 2011 he conducted research at Stanford University in the Computational Physics and Engineering Lab. This past summer he conducted research in the Materials Research Science and Engineering Center at the Wright Patterson Air Force Research Lab where he worked with 3D Laser lithography of helical nanostructures. Upon graduation, Roy plans to pursue a Ph.D. in Electrical Engineering.

Joshua Mann

Sartain Lanier Award

Junior, Applied Physics and Aerospace Engineering Major Second Year ARCS Scholar



Joshua was raised in Fairfax, Virginia. He is an Applied Physics and Aerospace Engineering major currently serving as the Vice President of the Morehouse College Chapter of the Optical Society of America. He is also a Dr. John H. Hopps, Jr. Defense Research Scholar. This past summer he conducted research in Paris, France at Ecole Polytechnique in the design and development of ultra-intense laser systems. His post-undergraduate plans include graduate level research in aerospace propulsion systems. Joshua also enjoys playing the alto saxophone.

Myles Nicholson

Ritz-Carlton Award

Senior, Computer Science Major Second Year ARCS Scholar



Myles is from Weldon, North Carolina. He is a senior Computer Science major. Myles is a member of the Culturally Relevant Computing Research Laboratory at Morehouse College. He has worked on a user interface for the Earth Systems Grid project and also helped to improve entity visibility in the Parallel Mesh Generation Project at Lawrence Livermore National Laboratory. His post-graduate plans include pursuing a Ph.D. in the field of database systems. Myles enjoys playing chess and programming for side projects in his spare time.

Francisco Nunez

ARCS Membership Award
Junior, Computer Science Major
First Year ARCS Scholar



Francisco Nunez is from Temple Hills, Maryland. He is majoring in Computer Science/Computer Engineering with a Mathematics Minor. He is an active member of NSBE, serving as AUC NSBE's Finance Chair. He is a co-founder of Educating Dreamers to Gain Efficacy, an organization chartered at Morehouse College. He is an Oracle Scholar since 2010, a Dr. John H. Hopps, Jr. Defense Research Scholar, a General Motors Scholar for 2011 and a Schwab Scholar for 2011. Last summer he conducted research at Stanford University in the Geophysics Department in Computational Seismology. This research entailed development of software through C++, C, MATLAB and CUDA modeling how elastic solids respond to wave propagation. Summer 2011, he was an application developer and business analyst at Hewitt Packard, where he conducted research on the WebOS platform for the HP Touchpad. His post-graduate plans include pursuing a Ph.D. in psychology or neuroscience. Francisco's other interests include mentoring, reading, basketball, meditating and physical exercise.

Raymond Perkins Deborah Liss ARCS Light Award

Senior, Mathematics and Economics Major Second Year ARCS Scholar



Raymond Perkins is a Mathematics and Economics major from Columbia, South Carolina. He serves as a Presidential Ambassador for Morehouse College. He is also a Jack H. Skirball Leadership Scholar and a Dr. John H. Hopps, Jr. Defense Research Scholar. Two years ago he performed pure mathematics research at Michigan State University. Last year, Raymond performed financial mathematics research at the Mathematical Science Research Institute at the University of California, Berkley. This summer he performed applied mathematics research at the Hong Kong University of Science and Technology. In addition to his research, last year he studied mathematics and Hungarian language in Budapest, Hungary. Raymond 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 Economics. Outside of research, Raymond loves to travel.

Andrew Peterson

King & Spalding Award

Junior, Physics Major First Year ARCS Scholar



Andrew Peterson is originally from Bastrop, Texas and is currently a junior physics major at Morehouse College. He is currently president of the Morehouse chapter of the Society of Physics Students (SPS) and is also the associate zone counselor for the SPS Zone 6, which includes Georgia, Florida and Puerto Rico. During the summer of 2011, he worked in the EUV Laser Research Laboratory at Colorado State University developing pulse counters for the laser amplifiers of a soft x-ray system. He plans to attend graduate school to study the quantum mechanics of black holes and quantum gravity.

Anthony Scruse

Easterly/Johnson Award

Junior, Chemistry Major First Year ARCS Scholar



Anthony is from Springfield, Ohio. He is an active member of the AUC Symphony Orchestra, the Morehouse College Academic Team and has performed and toured with the Morehouse College Jazz Ensemble. He is a MARC U*STAR Scholar and a veteran PLTL leader. Anthony's research experiences include a summer REU at Northwestern University with the Physical Sciences Oncology Center, and a summer REU at Brown University with the Leadership Alliance. He currently conducts research in organic chemistry at Morehouse College. Anthony plans to pursue a Ph.D. in organic chemistry with the intention of becoming a chemistry professor.

Lonnie Thomas Sullivan II

ARCS Century Award

Senior, Biology Major Second Year ARCS Scholar



Lonnie is a Biology major from Woodstock, Georgia. During his years at Morehouse College, Lonnie has been actively involved in stem cell research under the guidance of Dr. Alexandra Peister. In addition, he conducted research at Harvard Medical School in the summer of 2012. At Harvard, Lonnie studied the effects that knockout of the FACT complex have on tumor development in *Drosophila melanogaster*. Upon graduation from Morehouse College, Lonnie plans to pursue a medical degree.

Zollie White III

Meier Award

Senior, Chemistry and Mathematics Major Third Year ARCS Scholar



Zollie White III is a Senior Chemistry and Mathematics double major from Tallahassee, Florida. He is currently conducting research in the lab of Dr. Anita Corbett at Emory University, associated with cancer-relevant RNA binging proteins. His research at Morehouse includes structural biology in relation to diabetes as well as physical chemistry research concerning NMR spectroscopy. Zollie has participated in summer research programs at New York University, Vanderbilt University and Northwestern University, in projects in breast cancer, computer modeling in drug development and biophysics, respectively. He is also an NIH MARC U*STAR, as well as a Barry M. Goldwater Scholar this year. Postgraduation, he plans to pursue an M.D./Ph.D. degree in Cancer Biology. Outside of school, he plays soccer, trumpet, and enjoys music, especially jazz.



The University of Georgia

MICHAEL F. ADAMS, PRESIDENT



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.



DAVID LEE, Ph.D.

Vice President for Research University of Georgia

Rachelle Arnold

Adams Award

Ph.D. Candidate, Chemistry First Year ARCS Scholar



Rachelle Arnold is a native of Woodburn, Indiana and graduated Summa Cum Laude from the University of Indianapolis in 2009, with a B.S. in Chemistry and Biology. She is currently a doctoral candidate at the University of Georgia in analytical chemistry under the direction of Jason Locklin, specializing in the development of surface-bound molecular bottle-brushes for the study of diffusion and mechanical properties of extracellular barriers in pulmonary disorders. Rachelle currently has 2 first-author publications, a review in Journal of Materials Chemistry, and a research article in Macromolecules, while also contributing to a book chapter in Functional Polymers by Post-Polymerization Modification due out in November and published by Wiley, VCH.

Laura Cuff

Ph.D. Candidate, Microbiology

D. Candidate, Microbiology First Year ARCS Scholar



After receiving a B.A. in Biology from Grinnell College, Laura worked at the University of Iowa for two years studying the scaffolding of mammalian cell adhesion proteins. Following this technician position, she joined the Ph.D. program in the Department of Microbiology at the University of Georgia. In Dr. Ellen Neidle's lab, her research centers on understanding spontaneous gene amplification events in a soil bacterium. Laura has presented her work at international and national conferences in Rome, Italy, New Orleans, Louisiana and at Cold Spring Harbor Laboratories. Additionally, her findings are published in the *Journal of Bacteriology*. When she is not in the lab, Laura enjoys spending time with friends, reading mystery novels, cooking and baking.

Sharon K. Keller

Joachim Herz Stiftung/ **Global Impact Award**

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



After receiving a B.S. degree in Cellular Biology from the University of Georgia, Sharon joined the Ph.D. program in the Department of Cellular Biology under the direction of Dr. Silvia Moreno. She is studying a central enzyme in a signaling pathway known to regulate cellular processes such as metabolism and proliferation in Trypanosoma brucei, the pathogenic agent of African trypanosomiasis. She has presented her research at national conferences as well as in the publications. Antimicrobial Agents & Chemotherapy and Advances in Parasitology. During her career at the University of Georgia, Sharon has been awarded two pre-doctoral fellowships as well as an Outstanding Teaching Assistant award. In addition, she has served as president of the Cellular Biology Graduate Student Association.

Kristin A. Loiselle Gilham/ARCS Membership Award

Ph.D. Candidate, Psychology First Year ARCS Scholar



Kristin received her B.S. degree in Psychology from Drexel University. She is currently a graduate student member of the Pediatric Psychology Lab under the mentorship of Dr. Ron Blount where she investigates factors that affect adherence to medical regimens among child and adolescent solid organ transplant recipients. She has presented her research at many national conferences and has numerous publications in peer-reviewed journals. In the future, Kristin aims to develop and incorporate evidence-based medical adherence interventions in pediatric medical centers. In addition to research involvement, Kristin has served in leadership and mentoring positions with the Psychology Department. In her spare time, Kristin enjoys playing tennis and having game nights with her friends.

Cary McGinnis

Mauldin Award

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



Cary received her B.A. degree in Psychology from Florida State University and her M.S. degree in Chemistry from Georgia State University. At the University of Georgia, her research is guided by Dr. Michael Bartlett and focuses on characterization of small RNAs through development of specific and sensitive analytical methods. These methods are used to study siRNA therapeutics and for miRNA biomarker discovery. Cary has presented her research at several national conferences and has one first-author paper and three co-authored papers and book chapters. She is an active member of the American Association Pharmaceutical Scientists serving on various committees and has received nu-

merous awards to attend their national conferences. Cary serves as a judge for the local and state Science and Engineering Fairs and is active as a mentor and volunteer for the Center for Undergraduate Research Studies at UGA.

Bonney Reed-Knight

Burtchaell Award

Ph.D. Candidate, Clinical Psychology Third 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 non-adherence in youth with Inflammatory Bowel Disease (IBD). Bonney's dissertation examined the relationship between behavioral functioning specific to levels of attention and conduct problems and prescription medication adherence in youth with IBD

and examined the meditational role of perceived barriers to adherence. Bonney 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 year, Bonney is completing her pre-doctoral residency at The Warren Alpert Medical School at Brown University in Providence, Rhode Island.

Julie Rushmore

Dick Award

Ph.D. Candidate, Veterinary Medicine and Ecology Third 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.

Natale Sciolino

ARCS Membership Award

Ph.D. Candidate, Interdisciplinary Neuroscience First Year ARCS Scholar



Natale is from the West Side of Buffalo, New York. She was sponsored by the National Institutes of Health (NIH) to attend the Meeting of Nobel Laureates and Students in Lindau, Germany in 2010. She also received a prestigious NIH fellowship to perform research on the parent grant of her advisor, Dr. Philip Holmes. For the past two years, she researched the role of galanin in the stress-protection offered by exercise on behavior and brain norepinephrine. She expects to finish her doctorate in neuroscience in the summer of 2013. Natale's post-doctorate plans are to research the genetic and neurochemical underpinnings of mental disease.

Timothy Shaw

ARCS Century Award

Ph.D. Candidate, Bioinformatics Second 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 at the University of Georgia under the guidance of Dr. Ming Zhang. Timothy is greatly interested in investigating genetic patterns that facilitate efficient HIV transmission and disease progression. He has recently developed methods for modeling HIV RNA secondary structure and novel Shannon entropy approach to examine worldwide HIV diversity which is critical to HIV vaccine development. His developed methods will be used to address problems related to HIV co-infection and epitope discovery. Following graduation, Timothy plans to pursue a bioinformatics research career, applying multi-disciplinary technologies to address global infection diseases.

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