

ARCS

ADVANCING
SCIENCE
IN AMERICA®

THE ANNUAL SCHOLAR AWARDS
LUNCHEON



**ACHIEVEMENT REWARDS
FOR COLLEGE SCIENTISTS FOUNDATION, INC.**

**ATLANTA CHAPTER
SCHOLAR AWARDS LUNCHEON
NOVEMBER 20, 2014**

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 23rd annual ARCS Foundation Atlanta Scholar Awards Luncheon. We are here to honor 45 academically outstanding scholars in science, engineering, and medical research from Emory University, Georgia Institute of Technology, Morehouse College, and University of Georgia. These students are among the best and the brightest in their fields of study.

With 17 Chapters nationwide, ARCS® Foundation has awarded over \$91 million in unrestricted funding since our founding in 1958. Because we are an all volunteer organization, 100% of scholar awards money goes directly to the scholars. These funds are awarded to outstanding graduates and undergraduates to boost American leadership and aid advancement in science and technology. After they graduate, nine out of ten ARCS Scholars work in their sponsored fields creating knowledge, developing technologies, launching start-up companies, and building the STEM pipeline.

Since 1992, when ARCS Foundation Atlanta Chapter was founded, we have provided a cumulative total of over 3.8 million dollars in scholar awards through the contributions of our members, corporate donors, foundations, and friends. Today, our scholars will receive a total of \$322,500 in awards. Your generosity is an investment in our future as today's ARCS Scholars are tomorrow's leaders in science and technology.

In addition, this past summer, an exciting new partnership between The Roche Foundation and ARCS Foundation National was formed. The Roche/ARCS Foundation Scholar Awards Program in the life sciences will provide a total of \$663,000 to support as many as 40 Roche/ARCS Foundation Scholars over the next three years throughout our Chapters. From this partnership, ARCS Foundation Atlanta has added three top Ph.D. scholars in the life sciences at Emory University, Georgia Institute of Technology and University of Georgia.

At today's luncheon, I hope you will enjoy meeting our ARCS Scholars and hearing about their studies in multiple fields of science. I'm sure you will be inspired by their dedication and passion in their studies. In closing, I would like to thank and express my deep appreciation to Sara Jean Burke and the entire Scholar Awards Luncheon Committee, all of whom have worked tirelessly over this past year to make this a memorable day for our scholars, members, donors, and guests.

Jane Dolinger,
President, ARCS Foundation Atlanta Chapter

**ACHIEVEMENT REWARDS FOR COLLEGE
SCIENTISTS FOUNDATION, INC.**

**ATLANTA CHAPTER
2014
SCHOLAR AWARDS LUNCHEON
THE RITZ-CARLTON, ATLANTA**

PROGRAM

Welcome

Jane Dolinger, President
ARCS Foundation Atlanta Chapter

Invocation

Jerry C. Wilkinson
*Chairman of the Board, The Wilkinson Group
Deacon, Lay Pastor, Dunwoody Baptist Church*

LUNCHEON

Introduction of Keynote Speaker

Jane Dolinger

Keynote Speaker

Shan Cooper

*Vice President and General Manager
Lockheed Martin Aeronautics Company
Marietta, Georgia*

Moderator

Bill Liss

Financial, Consumer and Legal Editor, WXIA-TV

Closing Remarks

Jane Dolinger

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 15,000 scholar awards totaling over \$91 million at 54 universities, and has grown to more than 1,500 members in 17 Chapters across the United States. More than \$4.3 million was awarded in academic year 2013-2014.

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 rankings of world universities, a remarkable achievement for a small group of women whose goal was to help American scientists compete with Sputnik.

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IN APPRECIATION

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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Georgia Institute of Technology, G.P. "Bud" Peterson, President
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University of Georgia, Jere Morehead, President



Shan Cooper Lockheed Martin

Shan Cooper is Vice President of Lockheed Martin Aeronautics Company and General Manager of the company's Marietta, Ga., facility. She is also responsible for the company's subassembly sites in Meridian, Miss., and Clarksburg, W.Va. In addition, she serves as the company's Vice President of Business Ethics. She was named to her current position in January 2011.

As General Manager, she is responsible for the more than 6,300-employee Marietta operation, which designs, produces, modifies and maintains military aircraft for the United States and countries around the world. Marietta-based programs include the C-130J Super Hercules, C-5M Super Galaxy and P-3 Orion. The Marietta site is also responsible for F 35 Lightning II subassembly and coatings work.

Mrs. Cooper previously served as Vice President of Human Resources for the 36,000 employees of Lockheed Martin Information Systems & Global Solutions (IS&GS), based in Gaithersburg, Md. Before moving to IS&GS, Mrs. Cooper was Vice President and Deputy of Human Resources for Lockheed Martin Aeronautics Company with responsibility for Human Resources operations and site security for more than 27,000 employees across the country.

She joined Lockheed Martin in 2002 as Senior Manager, Diversity Workforce Management. While at corporate headquarters, she progressed through positions of increasing responsibility before being named Vice President, Diversity and Equal Opportunity Programs in 2004.

Earlier, Mrs. Cooper held leadership positions with Lucent Technologies and has consulted with other Fortune 500 companies. She has received multiple national honors, including the Women of Color in Technology Corporate Responsibility Award and the YWCA Tribute to Women of Achievement. She was named to Diversity MBA Magazine's 2009 Top 100 Under 50 Executives and as one of Georgia Trend Magazine's Most Influential Georgians in 2012, 2013 and 2014. She received the Pioneer Award from US Black Engineer & Information Technology Magazine in 2013.

She sits on the executive boards of the Cobb County and Metro Atlanta Chambers of Commerce. She is on the Board of Councilors for The Carter Center and the Board of Trustees of both Emory University and the Woodruff Arts Center. She is the 2014 chair of the Georgia Partnership for Excellence in Education. Mrs. Cooper is a member of the Marietta Kiwanis Club, Atlanta Rotary Club and the Georgia Military Affairs Coordinating Committee.

She holds an MBA from the Roberto C. Goizueta Business School at Emory University and is a graduate of the Rutgers Global Executive Masters in Human Resource Leadership Program.

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Founder, Atlanta Chapter

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Frannie Graves, 1996-1997

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Gracia Conn, 2012-2014

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Ronnie Martin
Mary Snitch
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ROCHE AND ARCS SUPPORT THREE GEORGIA SCHOLARS

The Roche Foundation and ARCS Foundation National have aligned to provide a unique program to support outstanding graduate life science students at universities across the United States. The Roche/ARCS Foundation Scholar Awards Program in the Life Sciences will support the next generation of life science leaders and further the foundations' shared interest in the advancement of science.

Through this partnership, The Roche Foundation will provide a total of \$663,000 in funding to support as many as 40 Roche/ARCS Foundation Scholars over the next three years. All awardees will be Ph.D. candidates in the life sciences at universities that are ARCS Foundation academic partners.

"The scientific innovations of Roche/ARCS Scholars will help build a better future and drive economic growth in our country. That's why it is so exciting for ARCS Foundation to partner with The Roche Foundation - a charitable organization with a long history of support for science innovation."

- Nancy Spetzler: ARCS Foundation National President

ARCS Foundation Atlanta will partner with The Roche Foundation to fund three awards, one at each of our Ph.D. program schools. Each scholar will be a three-year recipient of this award. We congratulate our Roche/ARCS Scholars: **Susan Hastings** of Georgia Tech, **Paul Donlin-Asp** of Emory University and **Heather Bishop** of the University of Georgia.

EMORY UNIVERSITY

Paul Donlin-Asp

Roche/ARCS Membership Award

*Ph.D. Candidate, Biochemistry, Cell & Developmental Biology
First Year ARCS Scholar*



Paul Donlin-Asp received his B.S. in Molecular and Cellular Biology from the University of Illinois. He is currently working toward his Ph.D. in Biochemistry, Cell and Developmental Biology at Emory University. Paul's research interests include regulation of RNA metabolism. Currently, his work involves examining the role transport of RNA plays in the disease Spinal Muscular Atrophy. Prior to pursuing graduate studies, Paul was a post-baccalaureate research fellow at the National Cancer Institute. Since coming to Emory, Paul received an NIH fellowship and most recently, attended the 64th Annual Lindau Nobel Laureate meeting. Outside of the lab, Paul is an avid fan of running, the Atlanta Braves and kickboxing.

Jessica Knight

Easterly/Johnson/McDaniel Award

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



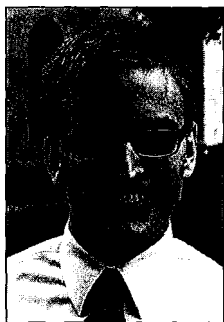
Jessica Knight is a doctoral student in epidemiology at Emory. She is a Woodruff Scholar, and is supported by an NIH training grant in Reproductive, Perinatal and Pediatric Epidemiology, and previously participated in the 2013 Break the Cycle Fellowship program. Jessica plans to pursue a career conducting research on the long-term impact of pediatric and perinatal exposures. She has published on academic outcomes in children with orofacial clefts, and risk factors for mild intellectual disability and autism. Her dissertation will examine the impact of congenital heart defects on children's quality of life, academic achievements, and cognitive development.

EMORY UNIVERSITY

Scott Krummey

Donnell Award

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



Scott is currently an MD/PhD student at Emory University conducting graduate studies with Dr. Mandy Ford in the Transplant Center. He graduated magna cum laude from Colgate University as a High Honors Molecular Biology major. He was a post-baccalaureate research fellow at the NIAID for two years, where he studied a primary immunodeficiency and co-authored three publications. After completing the first two years of medical school at Emory, he is now a second-year graduate student investigating costimulation pathways of memory T cells. As a graduate student, he has given four oral presentations at national and international meetings and is the primary author of a review article and two submitted manuscripts. His re-

search interests center on the mechanisms by which cosignaling receptors control T cell function and identifying novel strategies to target pathological immune responses that cause autoimmunity and graft rejection. Following graduate school, he plans to complete medical school and clinical training in internal medicine or pathology and plans to start his own laboratory to investigate mechanisms of T cell cosignaling. Scott enjoys reading about colonial-era American history, running with his dog, and perfecting his homemade pizza recipe.

Pravin Muthu

Glenn Award

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



Pravin attended Johns Hopkins University in Baltimore, MD on scholarship, where he earned both a B.S. and M.S. in Chemical Engineering. While attending, he worked in a theoretical biophysics lab, coauthoring several papers discussing the fundamentals of proteins. After graduation, he worked as a process chemist intern at Pfizer in Groton, CT, developing methods to manufacture pharmaceuticals. For his current doctoral work, Pravin switches between his computer chair and lab bench, using applied mathematics to design catalysts with specialized properties for therapeutics and chemicals production.

EMORY UNIVERSITY

Kira Newman

Jobe/ARCS Century Award

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



Kira Newman is an MD/PhD candidate at Emory University completing her PhD in epidemiology. She received a BA in history from Yale University, where she studied public perceptions of plague and quarantine in early modern England. Her current research uses epidemiologic modeling to improve understanding of the human immune response to norovirus. She is a National Institutes of Health National Research Service Award recipient and has participated in national and international workshops on infectious disease modeling. In her free time, Kira is an avid bicyclist, rock climber, and country western two-stepper.

William E. Oswald

Herz Global Impact Award

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



William Oswald is an Epidemiology doctoral candidate and has a demonstrated passion for global health, particularly water and sanitation access. He worked previously with the Center for Global Safe Water at Emory University on projects to improve sanitation access in Bolivia, and prior to that, while living in Lima, Peru, he completed studies on water availability and hand-washing and a technical consultancy on household water treatment for USAID. He obtained his MHS from the Johns Hopkins Bloomberg School of Public Health and majored in History at Kenyon College. He has presented his work at national conferences and in peer-reviewed journals.

EMORY UNIVERSITY

Karen Siegel

Berry/ARCS Century Award

Ph.D. Candidate, Biological and Biomedical Sciences

Second Year ARCS Scholar



Karen Siegel, MPH, is a PhD student in Nutrition and Health Sciences and a Woodruff Scholar at Emory University's Laney Graduate School and Rollins School of Public Health. Siegel received her BA in Biology and Hispanic Studies from the University of Pennsylvania in 2004, and her MPH (concentrating in Global Health) from Yale School of Public Health in 2007. Subsequently, she played a major role in the development of the Oxford Health Alliance's Community Interventions for Health as part of the study's evaluation team, based at Matrix Public Health Solutions, Inc. and later at Oxford University. Ms. Siegel was peer-elected to be the Student Representative for the Nutrition and Health Sciences program at Emory, and is co-chair of the Young Professionals Chronic Disease Network (YP-CDN), a

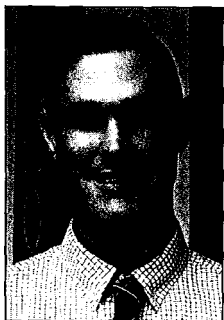
global network of more than 400 young people in 30 countries around the world who are interested in addressing the global epidemic of chronic diseases (www.ypcdn.org). She has written articles on environmental and policy approaches to prevent chronic diseases in India and globally, as well as on diabetes advocacy issues and transforming global health curricula and education to better train leaders in chronic disease prevention, in *Health Affairs*, *The Lancet*, *Globalization & Health*, and *Nursing Standard*, *American Journal of Public Health*, and the *Atlanta Journal-Constitution*, among other journals. She recently co-edited the book *Sick Societies* (Oxford University Press 2011), the first book to synthesize the evidence surrounding chronic disease providing comprehensive coverage of the subject and address prevention and control of chronic disease from epidemiologic, economic, prevention/management, and political economy perspectives.

James Vickers

Cox Award

Ph.D. Candidate, Chemistry

Second Year ARCS Scholar



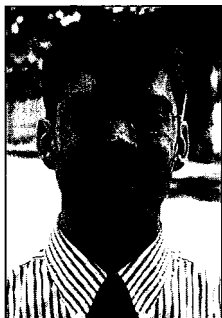
James Vickers earned a B.S. in chemistry from the University of North Florida where he received awards for academics and research. He enrolled as a Ph.D. student of Inorganic Chemistry at Emory in the Craig Hill Lab. James is researching alternative fuels, specifically, water oxidation catalysis and has published eight papers in peer-reviewed journals. He has worked for the Berkeley based startup EIE Materials improving the efficiency of LEDs and plans to continue working in the field of alternative energy upon graduation. James is active outside the lab as a member of the ACS Georgia local section, former president of the graduate chemistry social club PACS, and is vice-president of the bicycle advocacy group, Spokes Council.

EMORY UNIVERSITY

Kevin Yehl

Foster/Robitaille Award

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



Kevin graduated summa cum laude from University of South Carolina with a BS in Chemistry and is now pursuing a Chemistry PhD from Emory University. Kevin's research interests are DNA technology, synthetic-biology, and nano-walkers. Kevin has received an NSF East Asia and Pacific Summer Institutes (EAPSI), honorable mention NSF Graduate Research, and a GAANN Fellowship. He is an ACS-RISE Scholar, Magellan Scholar, and has published an article in ACS Nano. Kevin's career goal is to become a research professor. In his free time, Kevin enjoys playing soccer, hiking, walking his dog Izzy, and spending time with friends and family.



G.P. "BUD" PETERSON, PRESIDENT

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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.

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

President, Georgia Institute of Technology

GEORGIA INSTITUTE OF TECHNOLOGY

Chastity Aiken

Herz Global Impact Award

*Ph.D. Candidate, Earth & Atmospheric Sciences
Second Year ARCS Scholar*



Chastity obtained her B.S. in Physics from Georgia State University where she earned the highest academic honor of her class. As a Ph.D. student in Earth & Atmospheric Sciences at Georgia Tech, she was awarded a National Science Foundation Fellowship for her research on tremor and its interactions with damaging earthquakes. Recently, Chastity investigated tremor as a visiting scholar at the Earthquake Research Institute in Tokyo, Japan. She has three first author and several co-authored publications in international journals such as Nature Geoscience and Geophysical Research Letters. She plans to study seismicity related to volcanism

in the future. Chastity is devoted to her community, actively volunteers with Trees Atlanta, and mentors introductory physics and math students.

Josie Bates

Drummond Award

*Ph.D. Candidate, Civil & Environmental Engineering
First Year ARCS Scholar*



Josie Bates is from Dallas, Texas and earned her B.S. with honors in Environmental Engineering from Cornell University. In addition to her undergraduate studies, she co-founded the Cornell Chapter for the American Academy of Environmental Engineers, acted as a teaching assistant for three semesters, and performed two years of research. Her work included using global models to investigate sources of background ozone. She is currently a Ph.D. Candidate in the field of Environmental Engineering at the Georgia Institute of Technology with a President's Fellowship. She will continue her research with air quality, specifically developing novel capabilities to model certain

species in the atmosphere that may contribute to human health effects. She loves to travel, go to amusement parks, and try new restaurants.

GEORGIA INSTITUTE OF TECHNOLOGY

Sarah Cannon

Petter Award

*Ph.D. Candidate, Computer Science
First Year ARCS Scholar*



Sarah completed her B.A in Mathematics at Tufts University in 2012, where she published research in computational geometry and was one of three recipients nationally of the Computing Research Association's Outstanding Undergraduate Researcher award. Also a member of Tufts' nationally ranked varsity field hockey team, Sarah received the NCAA's Elite 88 award for academic excellence. Sarah then completed her M.S. in Mathematics and the Foundations of Computer Science at Oxford University in 2013. As a current Ph.D. student in Algorithms, Combinatorics, and Optimization, Sarah develops and analyzes algorithms that randomly

sample from large, complex geometric systems, work that is useful for understanding "typical" behavior of these systems. Sarah is a Clare Boothe Luce Outstanding Graduate Fellow and NSF Graduate Research Fellow.

Lauren Casa

Betsy Hansen Memorial Award

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



Lauren is a Ph.D. candidate in Mechanical Engineering at the Georgia Institute of Technology. She came to Georgia Tech after completing B.S. degrees in Mechanical Engineering and Mathematics and a M.S. in Mechanical Engineering at Southern Methodist University in Dallas, Texas. Lauren is interested in the application of fluid mechanics to biomedical problems and medical device design, particularly in the cardiovascular space. Currently, Lauren is investigating the effects of fluid dynamic conditions on blood clotting (thrombosis) related to heart attacks and stroke. In the future, Lauren plans to pursue a career in research and development in the biotechnology industry.

GEORGIA INSTITUTE OF TECHNOLOGY

Susan Hastings

Roche/ARCS Membership Award

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



Susan graduated with highest honors and a B.S. in Bio-medical Engineering from Georgia Institute of Technology. She began research as an undergraduate and received the President's Undergraduate Research Award (PURA) twice and was a 2012 Petit Scholar. She began her graduate studies at Georgia Tech in 2009 with a President's Fellowship and is currently pursuing a Ph.D. in Bioengineering. Her research focuses on improvement and design of blood-contacting medical devices to prevent life-threatening thrombotic complications. Such devices include extracorporeal membrane oxygenation (ECMO) circuits, stents, and grafts.

Benjamin Lee

Jones Award

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



Benjamin Lee earned his B.S. in Mechanical Engineering from the Georgia Institute of Technology in 2008. During his undergraduate studies, Benjamin developed an interest in the simulation and analysis of technical systems, which has translated directly to his research career. A National Science Foundation Research Experience for Undergraduates (REU) project offered a chance to investigate simulation-based design of hydraulic construction systems and inspired him to continue his graduate education at Georgia Tech. Benjamin has since obtained his M.S. in Mechanical Engineering in 2010, and is currently pursuing his Ph.D. in the field of simulation-based design under risk, with a focus on the development of energy-efficient residential and commercial buildings.

GEORGIA INSTITUTE OF TECHNOLOGY

Elizabeth Nadelman

UPS Award

*Ph.D. Candidate, Civil & Environmental Engineering
Second Year ARCS Scholar*



Elizabeth is a Ph.D. student in Civil Engineering at the Georgia Institute of Technology. She earned her B.S.E. in 2011 from Princeton University where she developed an interest in improving the durability of cement-based materials while studying freeze-thaw damage to concrete for her senior thesis. She is currently investigating the early-age properties and long-term performance of concrete made with "green" limestone cements and is seeking to develop more sustainable concretes that can be tailored to achieve both optimal early-age properties and enhanced long-term durability. When she is not studying concrete, she also plays the clarinet in a local community band.

Temi Olubanjo

Cannon Award

*Ph.D. Candidate, Electrical & Computer Engineering
Third Year ARCS Scholar*



Temi received her bachelor's degree in Electrical Engineering from the University of Texas at Austin in December 2010. In 2011, Temi worked as an instrumentation engineer for The Dow Chemical Company in Houston, TX. Since starting her Ph.D. at Georgia Tech in January 2012, she has been awarded the National Science Foundation (NSF) Graduate Research Fellowship, a Google scholarship, as well as the Achievements Rewards for College Scientists (ARCS) Fellowship. Temi's research work is focused on bio-signal processing in wearable technology that enables continuous health monitoring for early detection and potential prevention of health abnormalities. In the past academic year she

has published two papers on activity classification based on tracheal acoustics. These papers contribute to her research objective to develop wearable health monitoring systems.

GEORGIA INSTITUTE OF TECHNOLOGY

Matthew Plumlee

Printpack/Love Award

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



Matthew is a PhD student at the Stewart School of Industrial and Systems Engineering at Georgia Tech. He is researching new experimental and computational methods for system engineering and informatics. Collaborating with both academe and industry, Matthew has worked on projects including improving industrial nanopowder production, automated monitoring of steel rolling, and computational modeling of electrical activity in heart cells. Matthew has completed several publications that have been presented at conferences including INFORMS, where he received the 2012 Quality, Reliability and Statistics Best Student Paper Award.

Daniel Prosser

Nunn Award

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



Daniel Prosser is a Ph.D. candidate in Aerospace Engineering at the Georgia Institute of Technology (GT). He obtained a B.S. and M.S. at the Rochester Institute of Technology (RIT) in Mechanical Engineering in 2011 and an M.S. in Aerospace Engineering from the GT in 2013. His research focuses on the coupled aerodynamics and dynamics of helicopter tethered loads. His research was featured in the AIAA magazine Aerospace America in June 2013, and he was selected as one of AviationWeek's Twenty20s for 2013. Other honors, outside of ARCS, include the GT President's Fellowship (2011 – present), the American Helicopter

Vertical Flight Foundation Scholarship (2012), and the RIT Outstanding Undergraduate Scholar Award (2010). He enjoys sports, playing the piano, and flying model aircraft.

GEORGIA INSTITUTE OF TECHNOLOGY

Shiang-Ting Yeh

**Frannie Graves Memorial/
ARCS Century Award**

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



Shiang earned his B.S. in Aerospace Engineering from the Pennsylvania State University and completed his undergraduate thesis on plume impingement on the Lunar Lion spacecraft. In his undergraduate career, he worked at the Boeing Company as an intern for two summers and was a participant in the Summer Undergraduate Research in Engineering/Science program at the Georgia Institute of Technology where he conducted research in the Cognitive Engineering Center. He began his graduate studies at Georgia Tech in 2013 and is currently in the Ph.D. program for Aerospace Engineering. His research interests are in developing

advanced chemical propulsion systems for space transportation and spaceflight. In addition to his love for research, Shiang also enjoys activities such as tennis and being involved in advising the Georgia Tech chapter of Beta Theta Pi Fraternity.

Douglas White

Leake/Liss Award

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



Douglas White earned his B.S. in bioengineering from the University of Washington in Seattle. As an undergraduate he worked in Chuck Murry's laboratory studying electrical coupling of implanted cardiomyocytes with host cardiac tissue and received a capstone scholarship for work on this project. After graduating in 2010, he began Ph.D. studies in biomedical engineering at Georgia Institute of Technology where he works with Todd McDevitt and Melissa Kemp on stem cell differentiation using computational techniques. Douglas was awarded an NSF iGERT training grant award, a Presidential Fellowship, an Excellence in Computational

Modelling award from Medtronic at the annual Biomedical Engineering Society (BMES) conference, and opportunity to present a prestigious talk at the Society for Biological Engineering (SBE) conference.

GEORGIA INSTITUTE OF TECHNOLOGY

Carol Young

Cooley Award

*Ph.D. Candidate, Electrical & Computer Engineering
Third Year ARCS Scholar*



Carol Young of Savannah, Georgia graduated from Rensselaer Polytechnic Institute with a B.S. in Aeronautical and Mechanical Engineering. She spent a year working at Electric Boat before returning to school to pursue a Ph.D. in Robotic Engineering from Georgia Tech. She 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 manor with human swimmers. To achieve this goal she has focused her research on reinforcement learning, which would allow robots to autonomously adapt to various types of interactions.



MOREHOUSE COLLEGE

JOHN SILVANUS WILSON, JR., PRESIDENT

“

ARCS scholarships have supported the scholarly efforts of over 86 high achieving science and mathematics majors at Morehouse for 21 years. We were especially pleased to learn last year that one Morehouse ARCS Scholar each year will receive a prestigious ARCS Scholarship recognizing both outstanding scholarship and demonstrated leadership skills. Building future leaders of the country is an important goal of the College, and last year's first recipient of the Glenn Morehouse Leadership Award, Francisco Nunez, was an exemplary choice. Through its support for both undergraduate and graduate students who aspire to careers in science or mathematics, ARCS is making a major contribution to increasing the number of American citizens who pursue careers in STEM. And, for that we are truly grateful.

JOHN S. WILSON, JR.
Morehouse College President

”

MOREHOUSE COLLEGE

Zaire Ali

Ritz-Carlton Award

*Computer Science Major
First Year ARCS Scholar*



Zaire Ali is a senior pursuing the B.S. in Computer Science from Morehouse College in Atlanta, Georgia. He aspires to obtain a Ph.D. in a Computer Science related field. His research interests are in the areas of high performance computing and education. He has performed research in these areas at Oak Ridge National Laboratory and Morehouse College. The research performed at Morehouse College will soon be published. In addition to performing research, Zaire's interests include working in the field of IT, performing home improvements, playing video games, and spending time with his friends and family.

Jeremy Ariche

Nix Award

*Physics/Mathematics Major
First Year ARCS Scholar*



Jeremy Ariche is a Junior Mathematics and Physics double major at Morehouse College. He has conducted research in Nuclear Physics and Theoretical Astrophysics at Michigan State University and the University of California - San Diego, respectively. During his sophomore year, he was awarded the Mellon Mays Undergraduate Fellowship, during which he developed an interest in computational physics. He aspires to conduct research within the medical field. Jeremy enjoys tutoring students in Mathematics and Physics and playing the electric guitar.

MOREHOUSE COLLEGE

Ayorinde Cooley

Davis Award

Biology Major

First Year ARCS Scholar



Ayorinde Cooley is a junior Biology major and Bioinformatics minor at Morehouse College. His research interests are in the biomedical sciences with a focus on drug discovery, genomics, and proteomics. He has conducted research on autism spectrum disorders at the University of Washington Department of Genome Sciences and worked as a biology tutor for underclassmen. In his free time, he enjoys cooking, biking, and building models.

Rafaele Delaney

Glenn Leadership Award

Biology Major

First Year ARCS Scholar



Rafaele Delaney is a junior biology major at Morehouse College. During the summer of 2014, he did research on the role of smooth muscle cell discoidin domain receptor-1 on matrix vesicle calcification, while participating in the Brigham and Women's Hospital Summer Training in Academic Research and Scholarship Program in Boston, MA. After conducting this research, he developed interests in exploring the mechanisms underlying cardiovascular diseases. Outside of academia, Rafaele enjoys playing basketball, solving puzzles, and spending quality time with family and friends.

MOREHOUSE COLLEGE

Terrell Glenn

Genuine Parts Award

Physics Major

First Year ARCS Scholar



Terrell Glenn is a junior majoring in Physics at Morehouse College and hopes to complete a minor in Mathematics. After he finishes his undergraduate work, he plans to go on to graduate school to earn a Ph.D degree in Robotics Engineering. He has done research at Case Western Reserve University for one summer in Applied Mathematics and Materials Science research, and in another summer at the University of California, Berkeley doing research in Electrical Engineering. When he is not doing his academic work or completing his duties as a Resident Advisor, he is usually practicing or listening to music, reading about robotics, and/or physics, or working on his physical fitness.

Nyاليا Lui

Sartain Lanier Award

Computer Science Major

First Year ARCS Scholar



Nyاليا Lui is currently pursuing his B.S. in Computer Science at Morehouse College in Atlanta, Georgia. During his first summer of college, Nyاليا was introduced to the bioinformatics research field at the University of Tennessee, Knoxville. Coupling this experience with his love for mathematics, he declared minors in both areas which reflect his research interests and has conducted research at Morehouse in both fields. Currently, he is working with a colleague to build a computer cluster. When this is finished, he plans to develop a web interface to allow researchers easy access to computational tools on the cluster as well as continue bioinformatics work examining RNA editing work that he began in the summer of 2014 at Stanford University.

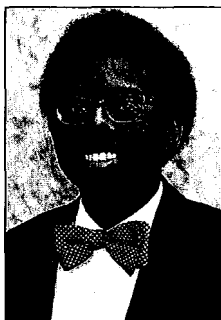
MOREHOUSE COLLEGE

Aquia Richburg

King & Spalding Award

Mathematics Major

First Year ARCS Scholar



Aquia is a senior Mathematics major at Morehouse College. His research interests are algebra and discrete mathematics, like graph theory and combinatorics. His research experiences include work at the Summer Undergraduate Mathematical Sciences Research Institute (SUMSRI) at Miami University, the Mathematical Sciences Research Institute Undergraduate Program (MSRI-UP) in Berkeley, California and the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS) at Rutgers University. He has presented his research experiences at national conferences such as SACNAS and the Joint Mathematics Meeting. Currently, Aquia is doing economics research with Dr.

Justin Kakeu at Morehouse. His hobbies include cycling, reading and studying foreign languages. He aspires to obtain a Ph.D. in either pure or applied mathematics.

Phillip Stephens

Franklin Award

Chemistry Major

First Year ARCS Scholar



Phillip Stephens, who is from New Orleans, Louisiana, is a junior chemistry major at Morehouse College. His research interests are in the area of neuroscience. He has worked three summers at LSU Health Sciences Center doing work on cytochrome P450s, one summer at Rockefeller University doing work on *C. elegans*, and one summer at University of Chicago doing research in psychiatric genetics. In addition to research, Phillip also participates on the Morehouse College Track and Field Team and enjoys reading, playing music, and doing community service.

MOREHOUSE COLLEGE

Steven Summers

Klamon/Olchowski Award

*Chemistry Major
Second Year ARCS Scholar*



Steven Summers is a senior majoring in chemistry at Morehouse College in Atlanta, Georgia. Upon graduation he plans to attend a medical school where he hopes to earn a medical degree (MD) as well as a doctorate degree (PhD). His most recent scientific research project took place during the summer of 2014 at the University of Florida. There, he was involved in a project that focused on a peptide hormone known to regulate body weight, appetite to play a role in the regulation of autonomic physiological activities that control blood pressure.

Sahim Wallace

Kaiser Permanente Award

*Biology Major
First Year ARCS Scholar*



Sahim Wallace is a third year undergraduate at Morehouse College, pursuing a Bachelor of Science Degree in Biology. Sahim began his research endeavors as an incoming freshman in the summer of 2012, when he participated in the Historically Black College and University- Undergraduate Program (HBCU-UP). He and his research team members developed a research protocol to test the functionality of an integrated hydrogen-fuel cell and solar cell system. In the fall of 2012, he joined the MBRS-RISE program at the College, and began working on stem cells under the guidance of Dr. Alexandra Peister in the Department of Biology with

whom he continues to work. In the summer of 2013, Sahim participated in the Johns Hopkins University Summer Internship Program, where he worked on a project whose aim was to eradicate tumors using bacteria. His most recent research experience occurred this past summer under the guidance of Dr. Peggy Fong and Dr. Paul Barber, at the University of California- Los Angeles where he had the opportunity to study the effects of stressors on algal turf in the South Pacific Ocean, in Moorea, French Polynesia.



The University of Georgia

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The University of Georgia is pleased to be a recipient of ARCS Foundation support for graduate students in the biomedical and health sciences. These prestigious awards not only provide significant and flexible direct financial support to the award winners during their training period, but also create invaluable life-long connections to the ARCS Foundation membership.



JERE MOREHEAD

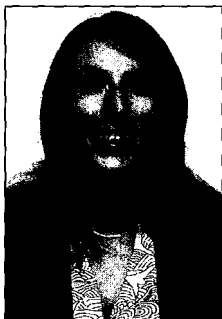
President, University of Georgia

UNIVERSITY OF GEORGIA

Lydia Anderson

Dick Award

*DVM-Ph.D. Candidate, Infectious Diseases
First Year ARCS Scholar*



Lydia earned her B.S. in Neuroscience and Behavioral Biology from Emory University, which challenged her to go beyond the basic understanding of neurobiology and evaluate the behavioral and mechanistic effects of various disease conditions across a wide range of species. Through the Emory Work Study Program, she worked as a researcher for three years in the Clinical and Environmental Microbiology Laboratory at the Centers for Disease Control and Prevention (CDC). Post-graduation, she completed a two year ORISE Fellowship at the CDC while also volunteering her time at local veterinary hospitals. She is currently a DVM-PhD

dual degree candidate in the College of Veterinary Medicine at the University of Georgia. Her current research involves determining the mechanisms of immunity and disease pathogenesis associated with respiratory syncytial virus. Lydia hopes to use her training to help address the questions and challenges facing population health from emerging and zoonotic infectious diseases.

Daniel Becker

Gilham/ARCS Century Award

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



Daniel earned his B.A. in Anthropology and Global Health from Bard College in New York's Hudson Valley. He went on to work in research-oriented positions at the Blacksmith Institute, New York Academy of Sciences, and Cary Institute of Ecosystem Studies, where he developed an interest in the ecology of infectious disease. Daniel is now a Ph.D. candidate and National Science Foundation Graduate Research Fellow at the University of Georgia, where he combines field studies and mathematical models to understand how human activities such as urbanization and agriculture influence disease outcomes in wildlife and risk of spread to

humans. Daniel is currently applying this framework to his research on vampire bat rabies, an increasing public health priority in the Peruvian Amazon.

UNIVERSITY OF GEORGIA

Heather Bishop

Roche/ARCS Membership Award

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



Heather received her B.S. in Biology in 2013 from Southern Polytechnic State University (SPSU) located in Marietta, Georgia. During her time at SPSU, she worked on several research projects as well as participating in a summer program at Emory University. These experiences further solidified her goal to become a research scientist. In the fall of 2013 she began her Ph.D. at the University of Georgia in the Department of Cellular Biology. She is currently under the advisement of Dr. Vasant Muralidharan working on protein trafficking pathways out of the endoplasmic reticulum in the human malarial parasite, *Plasmodium falciparum*.

Jessica Hoffman

Glover Award

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



Jessica received her B.S. degree in Biology from Clemson University, and she is currently pursuing a Ph.D. in genetics at the University of Georgia under Dr. Daniel Promislow. Her research focuses on using high throughput metabolomics to understand how small molecules in organisms affect aging. She has presented her research at national conferences and has been published in high profile journals. She has been awarded an NIH training grant and Bishop fellowship from the UGA Genetics department, and she has presided as president of the Genetics Graduate Student Association.

UNIVERSITY OF GEORGIA

Jennifer Lynn Lee

Burtchaell Award

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



Jennifer received her B.S. in Psychology from the University of Georgia. She is currently pursuing a PhD in Clinical Psychology under the mentorship of Dr. Ron Blount. Jennifer's work focuses on the intersection of psychological and biological health in children. Jennifer has received a number of prestigious awards and grants and has a number of publications in peer-reviewed journals. Her research and clinical career focuses on the domains of pain, oncology, and health behavior adherence. Jennifer's dissertation examined predictors of medical and psychological functioning in children being evaluated for solid organ transplants. She is currently completing a Behavioral Medicine Residency at Cincinnati Children's Hospital to complete her degree.

Matthew Meisel

Broscher/ARCS Century Award

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



Matthew graduated with dual B.S. degrees in psychology and business administration from Southern Illinois University Edwardsville. He is currently a fifth-year Ph.D. student in the Behavioral and Brain Sciences Psychology Program at the University of Georgia in the Georgia Decision Lab, under the supervision of Dr. Adam Goodie. His research interests encompass the social aspects of addictive behavior. Specifically, he utilizes social network analysis to investigate differences in network composition and structure between individuals with varying degrees of pathology in gambling and alcohol use. He also researches co-occurring

addictive behavior in individuals' social networks. Recently, Matthew won the Best Publication Award in his program for his first-author manuscript in *Addiction*. In his spare time, Matthew enjoys exercising and traveling.

UNIVERSITY OF GEORGIA

Wided Najahi-Missaoui Prince/ARCS Century Award

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



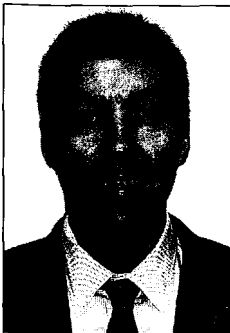
Wided earned her Pharm.D degree from the college of Pharmacy in Tunisia. As a Pharm.D student, she completed a five year program including internship at the University hospital. Wided earned a M.S. degree in Biochemistry and Molecular Biology from the University of Georgia after which she went on to work as research technician in the department of Microbiology at UGA. Wided earned her second M.S. degree in Pharmacy from the College of Pharmacy at the University of Iowa. She has published one first author publication in Blood, a second author publication in Biochemistry and co-authored two other publications in Biochemistry

and Journal of Medical Genetics. Wided is currently working on developing novel therapeutic strategies to treat cancer by targeting overexpressed enzymes in cancer tissues.

Asher Rosinger

Herz Global Impact Award

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



Asher earned his B.A. in Anthropology and Psychology from The University of North Carolina at Chapel Hill. He received an M.P.H. in epidemiology in 2012 from the University of Georgia, where he is a doctoral candidate in the Anthropology Department. His dissertation research, funded by the National Science Foundation and the Wenner-Gren Foundation, addresses how hydration strategies relate to variation in hydration, water-related diseases, immune activation, and body composition among Tsimane' forager-horticulturalists in the Bolivian Amazon. His publications in Social Science & Medicine, Public Health Nutrition, the American Journal of Human Biology, and a book chapter in

an edited volume examine how health, nutritional, and disease patterns shift during rapid lifestyle transitions.

UNIVERSITY OF GEORGIA

E. Farah Samli

SherryLundeen ARCS Light Award

Ph.D. Candidate, Infectious Diseases

First Year ARCS Scholar



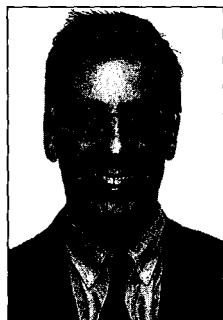
Farah received her B.S. in Applied Biological Sciences from Arizona State University and was awarded HHMI funding for her HIV undergraduate research proposal. Currently, she's completing a Ph.D. in Infectious Diseases at the University of Georgia, where she's focused on improving vaccines using VacSIM™, their patent pending vaccine delivery platform. Farah's submitted 2 papers for publication on her research and presented at international conferences, TEDxUGA, and Women@TheFrontier (W@F) events. She was recognized as a "Female Game Changer" by W@F, profiled by NIH-sponsored LabTV and is a member of the Blue Key Honor Society. Farah is an artist as well as a scientist, who's passionate about advancing vaccine research as well as communicating scientific discoveries to a broader audience.

David Schaeffer

Mauldin Award

Ph.D. Candidate, Neuroscience

First Year ARCS Scholar



David earned a B.S. in Psychology from Michigan Technological University in 2010. David is currently a Ph.D. student in Neuroscience at the University of Georgia, where he employs human neuroimaging techniques to study the effects of exercise on neural network structure in obese children. In 2011, David was awarded a National Science Foundation Graduate Research Fellowship. He has published four first author publications and co-authored an additional six publications. Currently, David is working on mapping neural white matter circuitry related to eye movements in people with schizophrenia, with the hope of contributing data which will support biology-based diagnostic criteria for schizophrenia.

UNIVERSITY OF GEORGIA

Natalie Scholpa

Herz Award

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



Natalie is a Ph.D. Candidate in the Interdisciplinary Toxicology Program at the University of Georgia in the Department of Pharmaceutical and Biomedical Sciences. She earned her B.S. in Biochemistry with a minor in Psychology at the Georgia Institute of Technology in 2011. She began her graduate studies the following summer after being awarded the Alfred P. Sloan Minority Scholarship in addition to the UGA Graduate School Bridge Award. Natalie recently published her first primary author paper in Toxicological Sciences and has since been co-author on several other submitted manuscripts. She is currently president of the UGA Student Toxicology Society and a participant in the UGA Emerging Leaders Program. Her research focuses on novel roles of hippocampal p21 in cocaine-induced behavior.

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