

ARCS

ADVANCING  
SCIENCE  
IN AMERICA®



THE ANNUAL SCHOLAR AWARDS

LUNCHEON

2010



## **ATLANTA CHAPTER FALL 2010 LUNCHEON PROGRAM**

### **Welcome**

Kay Weiss, President  
Achievement Rewards for College Scientists Foundation,  
Atlanta Chapter

## **Presentation of 2010 ARCS Atlanta Scholars**

### **Invocation**

The Very Reverend Samuel G. Candler  
The Cathedral of St. Philip

### **Lunch**

### **Introduction of Keynote Speaker** Debbie Shelton

**Nicholas J.M. Patrick, Ph.D., P.E.**  
NASA Astronaut  
"An Engineer in Space:  
Building the International Space Station"

### **Moderator**

Jeff Hullinger  
Anchor/Political Editor, WXIA-TV

### **Closing Remarks**

Kay Weiss

# The History of ARCS<sup>®</sup> Foundation, Inc.

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

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

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

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

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

# ARCS<sup>®</sup> Foundation, Inc. At A Glance

## **Chapters**

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

## **Mission**

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

## **Achievements**

In academic year 2009-2010, over 1,600 ARCS Foundation members awarded \$4,000,961 to 52 schools, for a cumulative total of \$74,825,946 and 13,157 scholar awards since its founding. Chapter endowments for scholar support now total \$12,877,101.

## **Web site**

[arcsfoundation.org](http://arcsfoundation.org)

# MONARCS<sup>®</sup>

We are proud to recognize the following donors who have contributed to the Atlanta Chapter of Achievement Rewards for College Scientists throughout our brief history.

## **Donors who have given cumulative gifts of \$75,000 or more:**

ARCS Atlanta Membership  
The Graves Foundation  
Joachim Herz Stiftung

## **Donors who have given cumulative gifts of \$50,000 or more:**

Joseph G. and Inez Crawford Burtchaell Foundation  
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## **Donors who have given cumulative gifts of \$25,000 or more:**

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Harriett and Sandy Miller  
Charles and Catherine B. Rice Foundation  
Synovus  
Dr. and Mrs. Martin Teem  
Kay and Buddy Weiss

# From the President

The Atlanta Chapter of the ARCS® Foundation, Inc., welcomes you to our 19th annual Scholar Awards Luncheon. Advancing Science in America® is the mission of the ARCS Foundation, one of the largest private contributors to science education in the United States. Organized and operating throughout the country by more than 1600 women volunteers, the ARCS Foundation gives 100 percent of all contributions donated for scholar awards to direct support of academically outstanding U.S. scholars pursuing degrees in science, engineering and medical research.

Today we will recognize and honor 35 academically outstanding scholars from Emory University, the Georgia Institute of Technology, Morehouse College and the University of Georgia. These gifted students are the "best and the brightest" in their fields of study. All have been selected by their respective schools to receive this honor by meeting and maintaining the ARCS Foundation's high standards of academic excellence. We are proud to be playing a part in their achievements, and we look forward to their collective ability to contribute to our future quality of life.

For the second year, the Atlanta Chapter is providing one-year \$10,000 Global Impact Awards for graduate scholars. These scholars are undertaking research in areas such as infectious disease and health care that will benefit the global community. The funding supports travel and enables the scholars to address some of the most pressing problems of the day, and they do so across borders from the laboratory to clinic, from city to village. Graduate research in global health is research aimed at the public good.

We extend our sincere thanks and gratitude to our many donors. This year ARCS Atlanta will have awarded a cumulative total of over \$2.3 million to 497 scholars pursuing studies in scientific and technological innovation. Support for our scholars comes from three sources. A portion of the dues paid by 140 ARCS members helps fund several awards; then there are those ARCS members who have chosen to provide additional financial support for the scholars; and finally, corporations, foundations and families who believe in the ARCS mission have joined to create more scholar awards. We hope some of you today who hear our message and meet our phenomenal scholars will be inspired to become our newest ARCS Scholar Award Donors.

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

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

*President, ARCS Foundation Atlanta Chapter*

# 2010 Scholar Award Donors

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## Nicholas J.M. Patrick

Dr. Patrick was selected by NASA as an astronaut candidate in June 1998 and reported to NASA's Johnson Space Center for astronaut training in August 1998. His initial training included scientific and technical briefings and intensive instruction in Shuttle and International Space Station systems. He has logged 638 hours in space as a mission specialist on Discovery, December 9-22, 2006, and on Endeavor, February 8-21, 2010.

His first space mission was a construction and logistics mission to the International Space Station. Discovery delivered more than two tons of equipment and supplies to the station. The Endeavor mission carried the final permanent modules: Tranquility and Cupola. Tranquility is now the life-support hub of the ISS and Cupola provides windows for a spectacular and panoramic view of our planet and will afford future crews a direct view of ISS robotic operations.

Dr. Patrick was born in North Yorkshire in the United Kingdom. After attending the Harrow School in London, he received B.A. and M.A. degrees in Engineering from the University of Cambridge. After graduation, he moved to Boston where he worked as an engineer for the Aircraft Engines Division of GE. He became a U.S. Citizen in 1994.

Dr. Patrick attended the Massachusetts Institute of Technology where he was a research assistant in the Human-Machine Systems Lab in the Department of Mechanical Engineering. His research interests included telerobotics, aviation psychology, decision theory, and optimization. At MIT he received S.M. and Ph.D. degrees in Mechanical Engineering. Upon completion of his doctorate, he joined Boeing's Commercial Airplane Group in Seattle, where he worked in Flight Deck Engineering.

While attending Cambridge University, Dr. Patrick learned to fly as a member of the Royal Air Force's Volunteer Reserve. After moving to the United States, he continued flying, becoming an instrument and multi-engine flight instructor. He has logged over 2,000 hours as a pilot in more than 20 types of airplanes and helicopters, and over 800 hours as a flight instructor.

# EMORY UNIVERSITY

## **Debra Cooper**

## **Jobe Award**

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



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

She has co-authored 2 peer reviewed papers based on her work as a research assistant at Duke University and co-first authored a paper from her dissertation research at Emory University. In her spare time, Debra enjoys reading, listening to music, and watching and playing sports.

## **Shannon Elf**

## **Printpak/Love Award**

*Ph.D. Candidate, GDBBS  
First 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 where she developed a profound interest in the molecular basis of leukemia. Following graduation, she worked in the hematological oncology labs at Harvard and Memorial Sloan-Kettering Cancer Center, where she co-authored numerous publications, including articles in *Nature Genetics* and *Cell Stem Cell*. Since coming to Emory, Shannon has continued her work

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

# EMORY UNIVERSITY

## **Katherine Gass**

## **Joachim Herz Stiftung/ Global Impact Award**

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



Katherine got her B.A. in Math and Theater from Oberlin College. Upon graduation, she joined the Peace Corps and spent two years working as a health volunteer in Peru. During her time in the Peace Corps, Katie received two grants which she used to create a childhood learning and stimulation center. Katie received her M.P.H. in Global Epidemiology from Emory as a Woodruff Scholar. She was the 2009 recipient of the Shepard Award for most scholarly thesis and is the ARCS 2010 recipient of the Global Impact Award for Emory University.

Katie recently developed a computer-based "Funding Gap Analysis Tool" which USAID and the WHO have adopted for their neglected tropical disease programs. Katie is currently pursuing her Ph.D. in Epidemiology and is interested in neglected tropical disease research.

## **Devon Livingston-Rosanoff**

## **ARCS Century Award**

*M.D./Ph.D. Candidate, GDBBS  
First Year ARCS Scholar*



Devon graduated from the University of Washington with degrees in Biochemistry and Russian Language and Literature. In 2006 she matriculated into Emory's M.D./Ph.D. program. She is currently working on her Ph.D. under the guidance of Edward Mocarski, studying cytomegalovirus pathogenesis. Data from Devon's undergraduate and graduate research has been published in journals such as the Journal of Virology and presented at international meetings. She has received the Mary Gates Research Grant and first prize for her poster

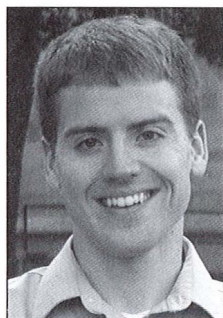
at the 2010 Emory MSTP retreat. Upon completing her M.D./Ph.D. degrees she will pursue a career as a physician scientist with a research focus on host/pathogen interactions of chronic viruses.

# EMORY UNIVERSITY

## **Kevin Ogden**

## **Donnell Award**

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



Kevin graduated in 2007 with a B.S. in Physiology from Michigan State University, where he studied the causes of hypertension and published two papers on the role of serotonin in high blood pressure. Upon entering Emory, 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 epilepsy. In addition, he was a

guest lecturer for the Introduction to Pharmacology graduate course. After graduating, Kevin aspires to continue research on the molecular basis of neurological diseases. When not in the lab, Kevin enjoys road bicycling, playing soccer, computer programming and home brewing.

## **Kevin O'Halloran**

## **Joachim Herz Stiftung Award**

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



Kevin received a B.S. in Chemistry from the University of Kansas and conducted summer research at Northwestern University, Syracuse University and the University of Alabama as an undergraduate student. Pursuing his Ph.D. in chemistry, Kevin now conducts research in Dr. Craig Hill's lab, studying the synthesis and characterization of new polyoxometalates, green chemistry and water-based reactions. He received an award from the chemistry department as an outstanding general chemistry teaching assistant and assisted

in teaching a sustainability course for Emory's pre-college program. Kevin has authored peer-reviewed articles and presented his research findings at national chemistry conferences.

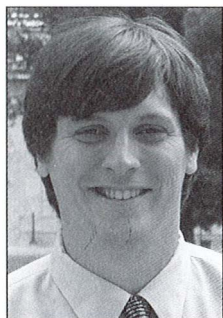


# EMORY UNIVERSITY

## **Brian Robinson**

## **Rice Award**

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



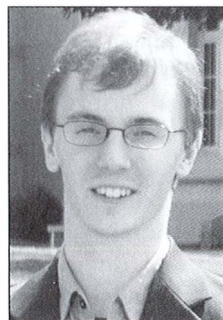
Brian is a native Californian and received his B.S. in Biochemistry and Molecular Biology from the University of California, Davis. While attending UC, Davis, Brian graduated with both Highest Honors and a Certificate of Outstanding Achievement. In 2005, he enrolled in the M.D./Ph.D. program at Emory where he has continued to pursue his interest in tumorigenesis. Brian is currently a member of the Moberg lab, where he is examining growth control in *Drosophila*. These efforts have led to several publications, including

an article in *Current Biology* entitled "Crumbs Regulates Salvador/Warts/Hippo Signaling in *Drosophila* via the FERM-domain protein Expanded."

## **Timothy Sampson**

## **Turner Award**

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



Tim received his undergraduate degree in 2004 from the University of Pittsburgh, where he performed research in the Graham Hatfull laboratory characterizing novel bacteriophages of the *Mycobacteria*. He is a third year Microbiology graduate student in Dr. David Weiss's lab and has begun studying the ability of the bacterial pathogen, *Francisella tularensis*, to suppress the innate immune system and cause disease. This work was recently honored with a fellowship from the NSF. Outside of the lab, Tim is

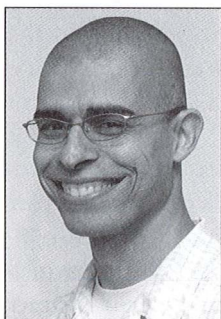
an avid bread baker and home cook and also really enjoys writing for his website, "the Time Microbial."

# EMORY UNIVERSITY

**Terrence Michael Wright, Jr.**

**Correll/ARCS  
Century Award**

*Ph.D. Candidate, GDBBS  
Third Year ARCS Scholar*



Michael matriculated to the Graduate Program in Neuroscience at Emory in 2004, where he currently works in the lab of Dr. Ronald Calabrese. Michael's thesis research is investigating mechanisms that underlie how we perform rhythmic motor movements, such as locomotion. Michael has presented his research at multiple scientific conferences and has received multiple fellowships that fund his research.

# GEORGIA TECH

## **Robert Amaro**

## **Drummond Award**

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

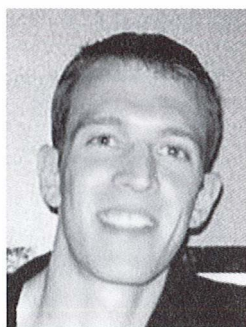


Robert received his undergraduate and Master's degrees from Georgia Tech in 2005 and 2008, respectively. As a senior scientist in the Mechanical Properties Research Laboratory, Robert trains new researchers and maintains the testing equipment. Robert also schedules use on the equipment and helps others to implement their test matrices. Robert's current research focuses on determination of life estimation algorithms for aero turbine blade materials. Robert is a member of Pi Tau Sigma, the National Mechanical Engineering Honors Society.

## **Ryan Austin**

## **Hansen Award**

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



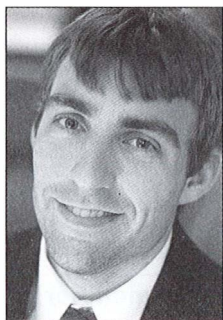
Ryan is originally from Stroudsburg, PA. He received his Bachelor's degree in Mechanical Engineering from The Johns Hopkins University in 2003, and expects to complete his Ph.D. in Mechanical Engineering at Georgia Tech this year. His Ph.D. research focuses on modeling the behavior of reactive metal powder mixtures in shock waves. This research has been supported, in part, by an NDSEG fellowship. After finishing at Georgia Tech, he plans to pursue mechanics-of-materials research at one of the national labs.

# GEORGIA TECH

## **Joel Boerckel**

## **Graves Award**

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

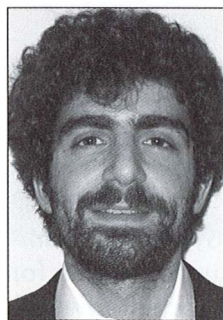


Joel is a Ph.D. candidate in Dr. Robert Guldberg's lab at Georgia Tech. He received his Bachelor's and Master's degrees in Mechanical Engineering from Grove City College and Georgia Tech, respectively. His research focuses on bone tissue engineering and how mechanical forces affect tissue healing and regeneration. His interests include mechanical adaptation of bone and the effects of mechanical stimulation on bone formation and neovascular network formation and remodeling, with application to vascularized tissue-engineered constructs. He is also interested in biomaterial delivery systems for recombinant growth factors. After graduation, he plans to conduct post-doctoral research in the field of cellular mechanotransduction.

## **Daniel Dadush**

## **Cooley Award**

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



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



# GEORGIA TECH

## **Catherine Grevet**

## **Imlay Award**

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



Catherine graduated from Wellesley College in 2009 with a B.A. in Computer Science. She is currently a Ph.D. student in Computer Science with a focus in Human-Computer Interaction in the Everyday Computing Lab under Dr. Elizabeth Mynatt. Her research focuses on changing individual behavior in the context of health and sustainability applications. She is a member of the CS graduate student soccer team and co-organizes CS group, an organization for the women in Computer Science at Georgia Tech.

## **Jackie Griffin**

## **Joachim Herz Stiftung/ Global Impact Award**

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



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

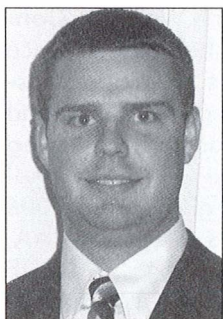
# GEORGIA TECH

## **Brett Holland**

## **KSi/ARCS Century Award**

*Ph.D. Candidate, Civil Engineering*

*First Year ARCS Scholar*



Brett is from Huntsville, Alabama and is a Ph.D. student in Civil Engineering. He earned his Bachelor's and Master's of Science in Civil Engineering from Georgia Tech in 2007 and 2008, respectively. His areas of research are the performance of high-strength lightweight concrete for prestressed bridge girders, and the durability of prestressed concrete piles in marine environments. His postgraduate plans include continuing research and development in the field of structural materials and design.

## **Alisa Holley-Young**

## **UPS Award**

*Ph.D. Candidate, Earth and Atmospheric Science*

*Second Year ARCS Scholar*



Alisa is from Detroit, Michigan. She has earned a B.A. in Physics from Talladega College and her M.S. degree in Atmospheric Science from the University of Alabama-Huntsville. Alisa's research investigates the role of tropical overshooting deep convection on upper tropospheric and lower stratospheric water vapor exchange with focus on satellite based detection methods and the impact of ice phase processes using cloud parcel modeling. She hopes to publish two articles in the Spring prior to graduation in March. Alisa is also a FACES scholar and NOAA Fellow. She is married to Alphonso Young and has two children, Alphonso Young Jr. and Reagan Madeline Young.

# GEORGIA TECH

## Jacqueline O'Connor

## Liss/ARCS Century Award

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



Jacqueline is originally from South Windsor, Connecticut. She received her Bachelor of Science in Aeronautics and Astronautics from the Massachusetts Institute of Technology in 2006 and her Master of Science in Aerospace Engineering from Georgia Tech in 2009. She was a National Science Foundation Graduate Fellow from 2006 – 2009 and has received awards from the AIAA, ASME, Wings Club, Zonta International, and GE Global Research, where she spent two summers as an intern in the Combustion Lab. Her graduate

research focuses on the coupling between acoustics, fluid mechanics, and combustion in a swirl-stabilized flame under transverse acoustic forcing with application for gas turbine engines. She enjoys hiking and scuba diving and plays violin in the Galloway String Quartet. After graduation, she plans to pursue a post-doctoral position.

## Eliot Quon

## Siemens Award

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



Eliot is from San Francisco, California. He received his B.S. in Mechanical Engineering from Cornell University and is currently working towards a Ph.D. in the field of Aerospace Engineering. He is a recipient of the 2010 Vertical Flight Foundation Scholarship and the current Atlanta student chapter secretary of the American Helicopter Society. In the past he has studied the unsteady aerodynamics of airfoils with actively controlled flaps using computational fluid dynamics.

At present, he is developing improved performance and acoustics modeling techniques for long age wakes with applications in rotorcraft and wind energy systems.

# GEORGIA TECH

## **Alex Williams**

## **Chaddick Award**

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



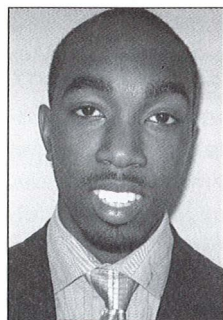
Alex received his Bachelor of Science in Mechanical Engineering from Georgia Tech in 2007. As a Ph.D. candidate, his primary research focus is the development of bio-fuels from biomass through thermo-chemical conversion processes. He is also the campus co-director for 9:25 Athletic Ministries at Georgia Tech. Alex's postgraduate plans include pursuing a research career in second generation bio-fuel development and the broader field of thermochemical conversion processes for energy applications.

# MOREHOUSE COLLEGE

## **Blair Alexander, Jr.**

## **Glenn Award**

*Senior, Biology Major  
First Year ARCS Scholar*



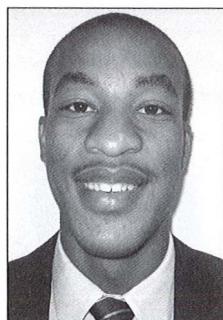
Blair is from Edgewater, Maryland. He is a proud member of the John H. Hopps, Jr. Defense Research Scholars Program. Blair is a Renaissance man whose interest lies in music, business and science. Because of his strong desire for discovering new things, Blair has done a large amount of research during the previous three summers, including research at Brown University, University of Sao Paulo (Sao Paulo, Brazil) and the University of Pennsylvania. He was the second author on the article "Two distinct major

facilitator superfamily drug efflux pumps mediate chloramphenicol resistance in *Streptomyces coelicolor*". This was published in *Antimicrobial Agents and Chemotherapy Journal*. After graduation Blair plans to pursue a Ph.D. in pharmacology followed by a M.B.A.

## **Kevin Anderson, Jr.**

## **Sartain-Lanier Award**

*Senior, Biology Major  
First Year ARCS Scholar*



Kevin is from Louisville, Kentucky, and has been a member of the Dr. John H. Hopps, Jr. Research Defense Research Scholars Program since his freshman year. Kevin is currently the President of the Atlanta University Center's Alpha Epsilon Delta chapter and the Vice-President of the Beta Kappa Chi Scientific Honor Society. His studies at Morehouse College have included research at Morehouse School of Medicine where he focuses on further understanding epilepsy by specifically studying the CA3 and dentate gyrus regions of

the hippocampus. Kevin has also engaged in research internships during his summer breaks at the University of Pennsylvania School of Medicine, Harvard Medical School, and Stanford School of Medicine focusing in the areas of stroke, pediatric oncology, and neuronal pathology. His postgraduate plans include pursuing an M.D./Ph.D. in the field of cancer biology.

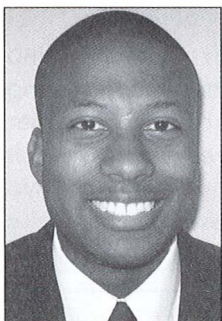


# MOREHOUSE COLLEGE

## Roy Llewellyn II

## Zeist Award

*Sophomore, Physics Major  
First Year ARCS Scholar*

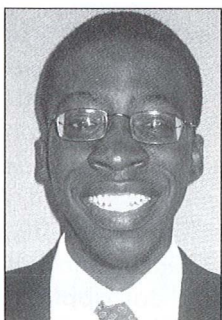


Roy is from Fontana, California, and is currently pursuing a B.S. in Physics from Morehouse College. He is a sophomore and a member of the Dr. John H. Hopps Jr. Defense Research Scholars Program, the National Society of Collegiate Scholars, and has been recently selected to participate in the Presidential Ambassador Program at Morehouse College. His current research includes studying photovoltaic cells and how to utilize them to create more efficient yet cost effective systems. This past summer he conducted research in the Materials Research Science and Engineering Center at the Georgia Institution of Technology. Upon graduation, he plans to pursue a Ph.D. in Electrical Engineering.

## Kenneth Lyons, Jr.

## Ritz-Carlton Award

*Senior, Chemistry Major  
Second Year ARCS Scholar*



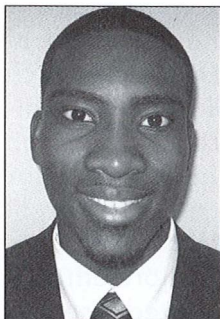
Originally from Oakland, California, Kenneth is a member of the Dr. John H. Hopps, Jr. Defense Research Scholars Program. During the academic year he works with Dr. Brian Lawrence in the Morehouse Chemistry Department. Kenneth has also done research during the summer, the most recent experience being at the Georgia Institute of Technology in its School of Chemistry. Through his participation in a previous summer research program at Princeton University, he is the third author on the publication, "Piezoelectric Ribbons Printed onto Rubber for Flexible Energy Conversion". Outside of the classroom and laboratory, Kenneth is a member of the Morehouse College Glee Club.

# MOREHOUSE COLLEGE

**Jamaji Nwanaji-Enwerem**

**Berry/ARCS  
Century Award**

*Junior, Biology Major  
First Year ARCS Scholar*



Jamaji is from Concord, North Carolina, and since his freshman year has been conducting research at Morehouse College as a member of the Dr. John H. Hopps Jr. Defense Research Scholars Program. Jamaji has spent his last two summers engaged in active research at Duke University and Wake Forest University. His latest research projects are entitled "Does the Relationship between Patient Length of Stay and Diagnostic Imaging Modality differ by the Time of Day in Patients with Acute Chest Pain?" and

"Two Candidate Genes for Hereditary Hemorrhagic Telangiectasia (HHT) 4". Upon graduation, he plans to pursue and M.D./Ph.D. in the field of genetics or pharmacology.

**Michael Street**

**Zeist/ARCS Century Award**

*Senior, Physics Major  
First Year ARCS Scholar*



Michael is originally from Washington, D.C. He is very involved in the campus community and currently serves as the chapter president of Alpha Phi Alpha Fraternity, Inc. Michael has been active with the John H. Hopps Defense Research Scholars Program since his sophomore year and has participated in summer research for the last three years. His summer experiences include work in nanoparticles for biomedical applications at The University of Florida, electrical ap-

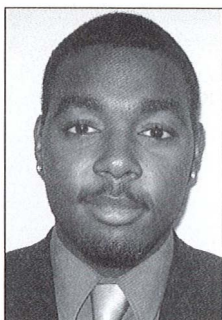
plications at Columbia University and examinations of building energy consumption at MIT. Currently he performs building energy research at Georgia Tech and has plans to continue his education in pursuit of a Ph.D. in building technology.

# MOREHOUSE COLLEGE

## **Davian Vernon**

## **Janie Wilson ARCS Light Award**

*Junior, Mathematics Major  
First Year ARCS Scholar*



Davian is a Mathematics major originally from Kingston, Jamaica, and now residing in Victorville, California. He is a member of the John H. Hopps, Jr. Defense Research Scholars Program and of the Morehouse College Honors Program. Davian has been involved in active research during his summer breaks in Research Experience for Undergraduate (REU) programs at Miami University in Oxford, Ohio and University of Maryland, College Park. During these REU's, Davian had the opportunity to study and research subjects such as Abstract Algebra, Real Analysis, Combinatorics, and Gaming Theory. Post-graduation plans include pursuing a Ph. D. in Mathematics.

## **Zollie White III**

## **Meier Award**

*Junior, Chemistry/Mathematics Major  
First Year ARCS Scholar*



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



# UNIVERSITY OF GEORGIA

## **Phillip Callihan**

## **ARCS Century Award**

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

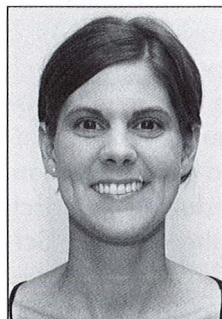


Phillip is from Atlanta and earned a Bachelor of Science in Biology from the University of Georgia in 2007. He is an active member of the American Society for Pharmacology and Experimental Therapeutics (ASPET), the American Association of Pharmaceutical Scientists (AAPS), and UGA Graduate Students and Postdocs in Science (GSPS). Phillip served as the Executive Chair of the UGA Student Chapter of AAPS and is currently the Executive Chair of UGA GSPS. His research focuses on G protein coupled receptor signaling in neural development and cancer. Currently, he is studying the mechanism of the fungal toxin Fumonisin B1 in the development of neural tube defects. After graduation, he plans to pursue an M.D. and a career in academic medicine.

## **Elizabeth Driskell**

## **Gilham/ARCS Century Award**

*Ph.D. Candidate, Veterinary Pathology & Molecular Biology  
First Year ARCS Scholar*



Elizabeth is originally from Cape Girardeau, Missouri, and currently resides in Athens, Georgia, with her husband and son. She earned a B.S. in Biology from Truman State University in 2001 and her D.V.M. from Iowa State University in 2005. Elizabeth is currently in a combined veterinary anatomic pathology residency and veterinary pathology Ph.D. program at the University of Georgia in which she not only performs research and teaches veterinary students but also serves as a diagnostician for veterinary biopsy and necropsy cases.

Under the guidance of Dr. Elizabeth Howerth, she is currently studying the transmission and pathogenesis of wild bird avian influenza viruses in mammals to better understand the potential impact of these viruses on the human population. Elizabeth has co-authored publications on both her influenza research and a variety of animal diseases.

# UNIVERSITY OF GEORGIA

## **Carly Jordan**

## **Mauldin Award**

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



Carly received both a B.S. and M.S. in Biology at Virginia Tech. Her research focuses on cell division in the human parasite, *Toxoplasma gondii*. She is using molecular biology and high resolution microscopy to examine the role of striated fiber assemblins in the division process. Her true passion is teaching, and Carly has taught numerous courses at the graduate and undergraduate level, and has conducted original research on improving the authenticity of laboratory courses. Recently, she was awarded UGA's highest honor, The Graduate School Excellence in Teaching Award, for her teaching accomplishments. After graduation this spring, Carly hopes to take a position teaching undergraduates and mentoring graduate teaching assistants, while continuing her research to improve biology education.

## **Megan L. McCormick**

## **Adams Award**

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



Megan received her B.A. in Psychology from Mercer University in 2005. She entered the Clinical Psychology Ph.D. program at the Biomedical and Health Sciences Institute at the University of Georgia in 2006. Under the supervision of Dr. Ronald Blount, she has co-authored seven published journal articles and one book chapter in the areas of pediatric psychology and has presented research at three national conferences. She earned her M.S. in Psychology at UGA in 2009 for her work in reducing pain and physical symptoms in adolescents with Inflammatory Bowel Disease. Her dissertation research examines risk factors for barriers to medication non-adherence in adolescent solid organ transplant recipients. Currently, Megan is completing her clinical residency at Children's National Medical Center in Washington, D.C. In her spare time, Megan enjoys fishing, running, biking, and spending time with friends and family.

# UNIVERSITY OF GEORGIA

## **Bonney Reed-Knight**

## **Burtchaell Award**

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

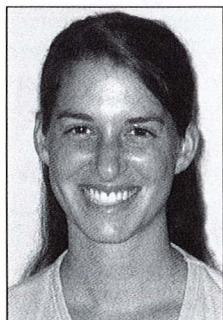


Bonney is from Habersham County, Georgia, and received her B.S. in Psychology from The University of Georgia in 2007. She is currently pursuing a Ph.D. in Clinical Psychology under the supervision of Dr. Ronald L. Blount. In 2010, Bonney earned her M.S. in Psychology for her study of disease, individual, and familial factors associated with medication non-adherence in youth with Inflammatory Bowel Disease. She intends to continue pediatric health research in the future, with particular interest in applying psychological research to improve disease outcomes and quality of life in youth with gastrointestinal disorders. Following graduation, Bonney plans to pursue a postdoctoral position in pediatric psychology and to develop an independent research career. In her spare time, Bonney enjoys gardening and spending time with her husband and cats.

## **Julie Rushmore**

## **Joachim Herz Stiftung/ Global Impact Award**

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



Julie graduated from Duke University in 2006 with a B.S. in Biological Anthropology. After taking a year off 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. She was a 2009-2010 Fulbright Fellow studying a wild chimpanzee community in western Uganda. Her research focuses on sexually transmitted diseases and the epidemiology of pathogen transmission 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 U.S. Fish and Wildlife Service among others. After graduating, Julie plans to pursue a job that addresses public health and wildlife conservation issues in Africa.

# UNIVERSITY OF GEORGIA

**Alecia Septer**

**ARCS Century Award**

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



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

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The Board of Directors of the Atlanta Chapter of Achievement Rewards for College Scientists also extends special appreciation to the following individuals whose time and talents contributed to the success of our annual celebration.

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