THE ANNUAL SCHOLAR AWARDS LUNCHEON

ADVANCING GEORGIA'S SCIENTIFIC SCHOLARS SINCE 1992

2016
ACHIEVEMENT REWARDS FOR
COLLEGE SCIENTISTS FOUNDATION, INC.

Atlanta Chapter
Scholar Awards Luncheon
November 17, 2016

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.

www.atlanta.arcsfoundation.org
ARCS Foundation Atlanta
P.O. Box 52124
Atlanta, GA 30355

ARCS® is registered in the U.S. Patent and Trademark Office.
It is with great pleasure that I welcome you to the annual Scholar Awards Luncheon. This is a very special day in our chapter’s history as we celebrate our 25th Anniversary of awarding scholars. At our first luncheon, we awarded $15,000 to three scholars; today we will award $370,000 to 50 scholars.

These young men and women are the best and the brightest from Emory University, Georgia Institute of Technology, University of Georgia, and Morehouse College. These scholars are majoring in science, engineering, and medical research. Our chapter is very proud of these young people, the work that they are doing, and the accomplishments that they will achieve, and we are proud of our chapter’s supporting role.

Since our founding in 1958, the chapters of ARCS Foundation, Inc. have awarded more than $100 million in unrestricted funding to U.S. citizens with a maintained 3.5 grade point average. ARCS Foundation Atlanta has awarded $4.5 million to 454 scholars in our 25-year history. Our financial success has been a joint effort of members, donors, foundations, and corporations. We are most appreciative of this support of our mission.

In closing, I would like to thank Northside Hospital for its generous contribution as a presenting sponsor of today’s luncheon. I would also like to express my gratitude and appreciation to Patty Reid and her Scholar Awards Luncheon Committee for planning and executing this special day for our scholars, members, donors, and guests. They have worked tirelessly over the past year to make today a memorable one as we celebrate our 25th Anniversary.

Sara Jean Burke,
President, ARCS Foundation Atlanta Chapter
ACHIEVEMENT REWARDS FOR
COLLEGE SCIENTISTS FOUNDATION, INC.

2016
Atlanta Chapter
Scholar Awards Luncheon
The Ritz-Carlton, Atlanta

PROGRAM

Welcome
Sara Jean Burke
President, ARCS Foundation Atlanta Chapter

Presentation of Scholars

Invocation
Reverend Monsignor Francis G. McNamee
Rector, Cathedral of Christ the King

LUNCHEON

“A Conversation with ARCS Alumni”
Facilitated by Bill Liss
Financial, Consumer and Legal Editor, WXIA-TV

With Special Guests
Deborah Kilpatrick, Ph.D.
CEO of Evidation Health
Fellow of the American Institute of Medical and Biological Engineering
Recognized by Business Insider as one of the Most Powerful Women Engineers in 2015
ARCS Scholar Alumna, Georgia Institute of Technology

Michael Zwick, Ph.D.
Associate Professor
Departments of Human Genetics and Pediatrics
Assistant Dean of Research
Emory University School of Medicine
Assistant Vice President for Research
Robert W. Woodruff Health Sciences Center
ARCS Scholar Alumnus, University of California at Davis

Closing Remarks
Sara Jean Burke
ARCS® FOUNDATION PURPOSE AND BACKGROUND

ARCS Foundation, Inc. is a national philanthropic organization supporting the best and brightest U.S. graduate and undergraduate scholars by providing financial scholar awards for pursuing further studies in science, engineering, and medical research.

ARCS Foundation was formed in 1958 in Los Angeles in response to the Soviet Union’s Sputnik success and the perceived lack of U.S. supremacy in the technology race.

ARCS FOUNDATION TODAY

Since its founding in 1958, ARCS Foundation has provided over 16,600 scholar awards totaling over $100 million, and has over 1,300 members in 16 chapters across the United States. Nearly $4.8 million in financial support was awarded by ARCS Foundation in the academic year 2015-2016.

ARCS Foundation principles and practices have remained consistent since its founding in 1958. For example:

- 100% of award 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.

Lynne Brickner, National President of ARCS Foundation, Inc., says, “ARCS Foundation supports outstanding students who are forging new paths in science, engineering and medical research. Our ARCS Scholar Alumni pursue careers in academia, industry and public service, and they are a true national treasure. Take the opportunity to talk with the ARCS Scholars being acknowledged and honored today at the Atlanta Scholar Awards Luncheon. The excitement and enthusiasm of our ARCS Scholars and ARCS Scholar Alumni will inspire and amaze you.”
ARCS® FOUNDATION, INC. CHAPTERS

Atlanta  Orange County
Colorado  Oregon
Honolulu  Phoenix
Illinois  Pittsburgh
Los Angeles  San Diego
Metro Washington  Seattle
Minnesota  Tampa Bay
Northern California  Utah

SPECIAL THANKS

Special thanks to Northside Hospital for it’s generous contribution as the Presenting Sponsor of the 2016 Scholars Award Luncheon.

IN APPRECIATION

Thank you to the following whose time and talents contributed to the success of our annual celebration:

Henderson Shapiro Peck (design and printing of invitation and program)
Bill Liss, Moderator
The Ritz-Carlton, Atlanta
  Manuel Deisen, General Manager
  Carla-Risha Wright, Director of Catering Sales

Our Partnership Schools
Emory University, Claire E. Sterk, President
Georgia Institute of Technology, G. P. “Bud” Peterson, President
Morehouse College, John Silvanus Wilson, Jr., President
University of Georgia, Jere W. Morehead, President
Deborah Kilpatrick, Ph.D. is the CEO of Evidation Health, a digital health company backed by B Capital Group, GE Ventures, Asset Management Ventures, Rock Health, and Stanford Healthcare. Evidation Health optimizes health outcomes in the digital era of medicine using predictive analytics and machine learning on medical, behavioral and contextual data in connected populations. Prior to her role at Evidation Health, Deborah was the Chief Commercial Officer of genomic diagnostics company CardioDx, whose Corus CAD product was named in the Wall Street Journal Technology Innovation Awards, TIME Magazine’s Top 10 Medical Breakthroughs, and the Edison Awards. Earlier in her career, Deborah held multiple leadership roles at Guidant Corporation, including Research Fellow, Director of R&D, and Director of New Ventures in the Vascular Intervention Division. She serves on the Georgia Tech Advisory Board, chairs the Georgia Tech College of Engineering Advisory Board, and is a Fellow of the American Institute of Medical and Biological Engineering. Deborah is a co-founder of the MedtechVision Conference now held annually in Silicon Valley, and she has been named to FierceBiotech’s Top Women in Biotech, FierceMedicalDevice’s Top Women in Medtech, and Silicon Valley Business Journal’s 100 Women of Influence. In 2015, Business Insider named her to their list of the most powerful women engineers in the world. She holds B.S., M.S. and Ph.D. degrees in engineering from Georgia Tech.

Michael Zwick, Ph.D. is the Assistant Vice President for Research of the Robert W. Woodruff Health Sciences Center at Emory University and the Assistant Dean of Research and Associate Professor of Human Genetics and Pediatrics in the Emory University School of Medicine. Trained as an experimental population geneticist in both the Drosophila and human systems, he has substantial experience in generating and analyzing large genomic datasets used to identify rare genetic variations that contribute to common pediatric disorders. Disorders studied include autism, congenital heart defects in children with Down Syndrome, inflammatory bowel disease, schizophrenia, and Fragile X. As Assistant Vice President for Research in the Robert W. Woodruff Health Sciences Center, Assistant Dean of Research in the Emory University School of Medicine, he leads the Emory Integrated Core Facilities. The EICF workforce includes 135 scientists and technical staff and supports Emory researchers with annual funding exceeding $150 million dollars. Dr. Zwick is also a surface warfare qualified officer in the United States Navy (Commander, O-5), where he has served 6 years on active duty and 19 years in the reserves. Dr. Zwick served onboard the USS KAUFFMAN (FFG 59) for 38 months and is a veteran of Desert Storm. After serving in large staff units including Commander, Pacific Fleet and Commander, US Forces Japan, he was recalled to active duty in support of the Iraq and Afghanistan war efforts from November 2002 through November 2004, when he was engaged with placing biodefense technologies in the United States Navy fleet and formulating national biodefense strategies.
We are pleased to recognize the following donors who have contributed to the Atlanta Chapter of ARCS Foundation throughout our history.

### DONORS WHO HAVE GIVEN CUMULATIVE GIFTS OF $100,000 OR MORE:

| ARCS Foundation Atlanta, Inc, Membership | Frannie* and Bill Graves |
| Marcia and John Donnell | Betsy* and Harald Hansen |
| Wilbur and Hilda Glenn Family Foundation | Joachim Herz Stiftung |
| J. H. Holdings | Siemens |

### DONORS WHO HAVE GIVEN CUMULATIVE GIFTS OF $75,000 OR MORE:

| Madeline and Howell Adams, Jr. | Linda T. Mauldin |
| Joseph G. and Inez Crawford | The Sartain Lanier Family Foundation, Inc. |
| Burtchaell Foundation, Inc. | The Zeist Foundation, Inc. |
| Cooley Family Foundation | Patsy and Jere Drummond |

### DONORS WHO HAVE GIVEN CUMULATIVE GIFTS OF $50,000 OR MORE:

| Sylvia and Bruce Dick | Sally and Warren Jobe |
| Georgia-Pacific Foundation | Printpack, Inc. and The Gay and Erskine Love Foundation |
| Lou and Tom Glenn | UPS Foundation |
| Harry and Caroline Gilham Foundation | The Imlay Foundation, Inc. |

### DONORS WHO HAVE GIVEN CUMULATIVE GIFTS OF $25,000 OR MORE:

| Cox Enterprises | Deborah and William Liss |
| Kathy and Dennis Berry | Sherry and John Lundeen |
| Sara Jean and Fred Burke | Carol and Bob Meier |
| Jenny and Dick Cannon | Harriet* and Sandy Miller |
| Ada Lee Correll | Charles and Catherine B. Rice Foundation |
| Susie and Bill Deyo | The Ritz-Carlton, Atlanta |
| Georgia Gulf Corporation | The Roche Foundation |
| John and Mary Franklin Foundation | Synovus |
| Petra Herz | Dr. and Mrs. Martin Teem |
| Libby and Gary Jones | Turner Enterprises, Inc. |
| King & Spalding | Kay and Buddy Weiss |
| James R. Kuse Foundation | |
| Pat and Nolan Leake | |

*Deceased*
2016 SCHOLAR AWARD DONORS

GALILEO CIRCLE $7500 and above

ARCS Foundation Atlanta Membership
Farideh and Al Azadi
Madeline and Howell E. Adams, Jr. Charitable Trust
Sara Jean and Fred Burke
Joseph G. and Inez Crawford Burtchaell Foundation
Jenny Cannon
Cooley Family Foundation
Sylvia and Bruce Dick
Marcia and John Donnell
Patsy and Jere Drummond
Lou and Tom Glenn
The Graves Foundation
In Memory of Betsy Hansen
Lockheed Martin Aeronautics
Linda T. Mauldin
Colleen and Senator Sam Nunn
Regina Olchowski and Ed Potter
Leslie and Skip Petter
Printpack, Inc., and The Gay and Erskine Love Foundation
The Roche Foundation
Siemens
UPS Foundation

EINSTEIN CIRCLE $5000 - $7499

The Erroll and Elaine Davis Charitable Giving Foundation
Genuine Parts Company
Georgia-Pacific Foundation, Inc
Libby and Gary Jones
Kaiser Permanente
King & Spalding, LLP
Cheryl and Jerry Nix
The Ritz-Carlton, Atlanta
The Sartain Lanier Family Foundation, Inc.
June and Michael Tompkins

MADAME CURIE CIRCLE $2500 - $4999

Kathy and Dennis Berry
Terry Broscher
Ada Lee Correll
Susie and Bill Deyo
Martha Lee Doyle
2016 SCHOLAR AWARD DONORS

MADAME CURIE CIRCLE $2500 - $4999 continued

Marie Foster
Harry and Caroline Gilham Foundation
Cheryl Dabney Johnson
Ann and Larry Klamon
Pat and Nolan Leake
Deborah and Bill Liss
Sandra and Larry Prince
Patty and Doug Reid Family Foundation, Inc.
Nancy B. Robitaille
Cathy Wahlen
Marilyn and Rick Woods

CENTURY CIRCLE $1000 - $2499

Lisa Bankoff
Anne and David Boyd
Jane and Steve Dolinger
Camille Buice Campanelli
Dunwoody Rotary Club
Anne and Michael Easterly
Marie Hoffman Edwards
Molly and Mike Eskew Family Charitable Foundation
Kathy Harman
Sally Hinkle
Cecy Jones
Kelli Keb
The Martha & Wilton Looney Foundation, Inc.
Betts Love
Sherry and John Lundeen
In Honor of Sherry Lundeen
Elizabeth and Frank Martin
Sally McDaniel
Linda Kay and John McGowan
Joanie Michaels
Ginny and Alan Plummer
Teed M. Poe
Andi Purple
Phyllis and Sidney Rodbell
Frances and Kurt Swensson
Charles McKenzie Taylor Foundation
Northern Trust
Liz and Mike Troy
Clare Whitfield
2016 SCHOLAR AWARD DONORS

FRIENDS OF ARCS ATLANTA FOUNDATION $100 - $999

Yetty Arp
Susan Bledsoe
Pat Bras
Lynne Brickner
Gracia Conn
Susan Epley
Kathryn Graves
Caroline Hardin
Corrie Johnson
Robin King
Ronnie Martin
Carol and Bob Meier
Suzn Kern Smith
Elizabeth Spiegel
Deede Stephenson
Anne Sterchi

ARCS SCHOLAR ALUMNI DONORS

CENTURY CIRCLE $1,000 and above

Dr. Deborah Kilpatrick

2016 ENDOWMENT DONORS

MILLENNIUM CIRCLE $2,500 and above

Nancy and Richard Chambers
In honor of Debbie Robbins

CENTURY CIRCLE $1,000 - $2499

Cathey Millichap
Patty and Doug Reid
Liz and Mike Troy

FRIENDS OF ARCS ATLANTA FOUNDATION ENDOWMENT

Lisa Bankoff
Karen Doolittle
Mary Snitch
Mary O’Connor, 1992-1994  
*Founder, Atlanta Chapter*  
Patsy Drummond, 1994-1995  
Trudy Huger, 1995-1996  
Frannie Graves, 1996-1997  
Pat Leake, 1997-1998  
Betsy Hansen, 1998-1999  
Deborah Liss, 1999-2000  
Sally Hinkle, 2000-2002  
Janie Wilson, 2002-2004  
Teed M. Poe, 2004-2006  
Jan K. Bennett, 2006-2008  
Sherry Lundeen, 2008-2010  
Kay Weiss, 2010-2012  
Gracia Conn, 2012-2014  
Jane Dolinger, 2014-2016

**ATLANTA CHAPTER MEMBERS SERVING ON ARCS FOUNDATION NATIONAL BOARD**

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sara Jean Burke</td>
<td>Chapter President</td>
</tr>
<tr>
<td>Nancy Chambers</td>
<td>Affiliate</td>
</tr>
<tr>
<td>Jane Dolinger</td>
<td>Affiliate</td>
</tr>
<tr>
<td>Debbie Liss</td>
<td>Council of Advisors</td>
</tr>
<tr>
<td>Sherry Lundeen</td>
<td>National Endowment Committee</td>
</tr>
<tr>
<td>Sally McDaniel</td>
<td>Chair, Funds Development</td>
</tr>
<tr>
<td>Andi Purple</td>
<td>President-Elect</td>
</tr>
<tr>
<td>Mary Snitch</td>
<td>Council of Advisors</td>
</tr>
<tr>
<td>Janie Wilson</td>
<td>National Endowment Committee</td>
</tr>
</tbody>
</table>
"As one of the nation’s leading research universities, Emory University is extremely proud of the brilliant young scholars and the diversity of research areas that received awards from the ARCS Foundation this year. The support of the ARCS Foundation is empowering these Ph.D. candidates to be visionaries pursuing life-changing and potentially world-changing research and for that Emory is truly grateful.”

Claire E. Sterk
President, Emory University
Brenda Calderon  
**Donnell Award**  
*Ph.D. Candidate, Biochemistry*  
*Second Year ARCS Scholar*

Brenda received her B.S. in Chemistry with high honors from the University of Florida. She is currently a Ph.D. candidate in the Biochemistry, Cell and Developmental Biology Program with research interests in macromolecular structure and function. Brenda’s thesis work is on molecular mechanisms of RNA-mediated regulation of innate immune viral sensors. During her time at Emory, Brenda has presented her research orally and in poster format at national conferences, earned travel awards, a poster prize, and has one publication as co-author with a first author manuscript nearing completion. Outside of the lab, she enjoys running and hiking with her dog.

Patricia Cheung  
**Franklin Award**  
*Ph.D. Candidate, Epidemiology*  
*Second Year ARCS Scholar*

Patricia earned a B.A. in Biology and Educational Studies in 2009 from Washington University. As an undergraduate, Patricia was awarded NSF and HHMI fellowships for microbiology research. She then pursued her dream of medicine and public health, and earned a MPH from Washington University as a Community and Population Health Scholar. Currently, she is a sixth year MD/PhD student in Emory University’s Epidemiology Department with an interest in child obesity prevention in school and clinical settings. She has co-authored publications in PNAS, Journal of Bacteriology, and first-authored a systematic review in Childhood Obesity. In the future, Patricia hopes to combine her graduate and clinical interests by incorporating epidemiology training into medical education. Patricia’s hobbies include hiking, cooking, traveling, and photography.
Emily Crispell
Cannon/25th Anniversary
Ph.D. Candidate, Microbiology and Molecular Genetics
First Year ARCS Scholar

Emily received her B.S. in Chemistry from the Georgia Institute of Technology, during which she pursued both undergraduate basic science research and infectious disease surveillance with the state of Georgia’s Epidemiology Division. A post-baccalaureate position with Georgia Emerging Infections Program focused her research interests in laboratory science, microbiology, and healthcare, resulting in twelve publications on antibiotic resistance and bacterial infections. She is pursuing doctoral research at Emory University as a trainee of the Antimicrobial Resistance and Therapeutic Discovery Program, focusing on novel antibiotic resistance mechanisms and developing both detection methods and inhibitors to target these mechanisms. Her time at Emory has resulted in several publications, including lead authorship work in Nature Microbiology. She has keen interests in literature and gardening.

Paul Donlin-Asp
Roche/ARCS Award
Ph.D. Candidate, Biochemistry, Cell and Developmental Biology
Third Year ARCS Scholar

Paul Donlin-Asp received his B.S. in Molecular and Cellular Biology from the University of Illinois. He is currently finishing 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 has presented his work at over 10 meetings. Outside of the lab, Paul is obsessed with spin classes and an addict for traveling the world.
Jessica Knight
Berry/Johnson Award
Ph.D. Candidate, Epidemiology
Third Year ARCS Scholar

Jessica Knight is a doctoral candidate in epidemiology at Emory University. She is currently a Woodruff Scholar and an American Heart Association predoctoral fellow, and was previously supported by an NIH training grant in Reproductive, Perinatal and Pediatric Epidemiology. 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 examines the impact of congenital heart defects on children’s behavior, quality of life, and self-esteem.
Elizabeth Littauer
Foster/Robitaille Award
Ph.D. Candidate, Microbiology and Molecular Genetics
Second Year ARCS Scholar

Elizabeth Littauer is a Ph.D. candidate in Microbiology and Molecular Genetics at Emory University. She earned her B.A. in Biology and History at UNC-Chapel Hill in 2012 and has focused on how respiratory viral infections impact human health and immune responses. Under the mentorship of Drs. Ioanna Skountzou and Richard Compans, her graduate thesis examines how pregnancy impacts the development of protective antibodies after influenza infection. She has presented her work at the American Association for Immunologists Meeting in 2016 and the Southeastern Immunology Symposium in 2015. She enjoys teaching in the classroom and laboratory and mentors undergraduate students each semester in influenza research and vaccine development. On weekends, Elizabeth can be found hiking in north Georgia or troubleshooting her old Honda.

Jessica Petree
Burke Award
Ph.D. Candidate, Chemistry
Second Year ARCS Scholar

Jessica graduated magna cum laude from UGA with a B.S. in biochemistry and molecular biology. She is co-author on a paper under review at RNA for her undergraduate research on tRNA processing and received honorable mention for the graduate NSF fellowship. Her research interests include manipulating nucleic acids through synthetic biology and nanotechnology. For her Ph.D. project, she combined these concepts to develop a nanomachine capable of RNA gene therapy. Future studies will include work with CRISPR, with a goal of becoming a research professor or senior scientist. In her free time, Jessica enjoys reading, blogging, board gaming, walking and spending time with family.
Paula Tyler earned a B.S. in Chemistry and Anthropology & Human Biology from Emory University. As an undergraduate SIRE Fellow in the Quave group, she characterized ethnobotanically relevant inhibitors of S. aureus biofilms and co-authored multiple submitted publications. In pursuit of understanding the molecular processes of infectious diseases, her focus as a graduate student in the Dyer group is investigating the dynamics of the viral membrane fusion process. As an active member of Women in Bio and the Association for Women in Science, she is committed to mentoring young women across disciplines. She believes that communication and innovation are the crux of scientific impact and intends to be a leading scientist in society through technical writing or patent law.

Morgan Vaughn earned her B.S. in biochemistry from Berry College. As an undergraduate, Morgan’s research primarily focused on enzyme pathways involved in antibiotic production. Currently, she attends Emory University, where she is working towards a doctorate in chemistry. In her graduate work, Morgan continues to study enzymes. Her doctoral research focuses on understanding the role of protein motions in enzyme catalysis. Morgan was awarded the Laney Graduate School’s Woodruff Fellowship for her outstanding academic achievements. After graduate school, Morgan hopes to become a chemistry professor, where she can combine her passion for research and teaching.
Aaron Wallace
Herz Global Impact Award
Ph.D. Candidate, Epidemiology
First Year ARCS Scholar

Aaron grew up in California and earned a B.A. in Biology from University of California, Berkeley. As an undergraduate, he worked at a UCB field station in the South Pacific and grew to love the field of global infectious diseases. He earned MPH/MBA degrees from Emory University and received the Gangarosa Award for Excellence in International Health. He then worked at the US Centers for Disease Control, leading studies evaluating global vaccine-preventable disease control strategies. He is a PhD student in Epidemiology with continued interest in vaccine-preventable diseases. Aaron enjoys gardening and being a new dad.

Alynda Wood
Correll/Liss Award
Ph.D. Candidate, Neuroscience
First Year ARCS Scholar

Alynda earned her B.A. in Neuroscience from Hampshire College in Massachusetts. As an undergraduate, she received a grant from the Culture, Brain, and Development Program to spend a summer working at the University of Virginia, studying the molecular mechanisms of learning. After graduating she received an Intramural Research Postbaccalaureate Training Award from the National Institutes of Health, where she studied neural plasticity in the olfactory system. Alynda is currently enrolled in Emory University’s Neuroscience Ph.D. program. Her research focuses on the neural mechanisms of sensorimotor learning in songbirds. She has co-authored publications in Learning & Memory and the Journal of Neuroscience, and received a National Science Foundation Graduate Research Fellowship. She is active in science outreach in the Atlanta community.
“Val and I have been involved with ARCS Foundation for more than ten years and Val served as the President of the Colorado Chapter. This makes the celebration of the 25th anniversary of the founding of ARCS Foundation-Atlanta Chapter and the role that Georgia Tech has played especially meaningful for us. Since 1992, the Atlanta Chapter has awarded more than $1,000,000 to Scholars at Georgia Tech. Today, we have 16 graduate students receiving ARCS scholarships. We remain grateful to ARCS Foundation-Atlanta Chapter for their transformative philanthropy, which enables our very best graduate students to realize their greatest potential.”

G.P. “Bud” Peterson
President, Georgia Institute of Technology
Josephine Bates  
**Drummond Award**  
*Ph.D. Candidate, Environmental Engineering*  
*Third Year ARCS Scholar*  

Josie 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 atmospheric models to investigate stratospheric intrusion of 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 and is continuing her research with air quality, specifically developing novel capabilities to investigate human health effects of pollutants. She recently published her work on biological mechanisms of toxicity and sources of particulate matter air pollution related to cardiorespiratory effects.

Osvaldo Broesicke  
**Anderson/ARCS Century Award**  
*Ph.D. Candidate, Environmental Engineering*  
*First Year ARCS Scholar*  

Osvaldo earned his B.S. and M.S. in Civil Engineering from the University of Texas, El Paso. Throughout his career, Osvaldo developed through a diverse set of professional, research, and international experiences, all of which fueled his interest in water, sustainability, and the environment. Osvaldo is now pursuing his Ph.D. in Environmental Engineering the Georgia Institute of Technology. Within his research group in the Brook Byers Institute for Sustainable Systems, Osvaldo works to understand the linkages and relationships between the food-energy-water (FEW) nexus in order to make more resilient and sustainable cities. Osvaldo has co-authored two papers on low-impact development in the Journal of Green Building and FESE, and is currently co-authoring a third paper on graywater reclamation.
Sarah Cannon
Petter Award
Ph.D. Candidate, Computer Science
Third Year ARCS Scholar

Sarah completed her B.A in Mathematics at Tufts University in 2012, where she published research in computational geometry. 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 the University of Oxford in 2013. As a current Ph.D. student in Algorithms, Combinatorics, and Optimization, Sarah develops and analyzes algorithms that randomly sample from large, complex systems with strong geometric properties, useful for understanding “typical” behavior of these systems. Recent applied work on distributed algorithms for self-organizing particle systems has potential implications for understanding the behavior of ant colonies. Sarah is a Clare Boothe Luce Outstanding Graduate Fellow, an NSF Graduate Research Fellow, and was nationally recognized with the Simons Award for Graduate Students in Theoretical Computer Science.

Calvin Clark
Anonymous/ARCS Century Award
Ph.D. Candidate, Civil Engineering
First Year ARCS Scholar

Calvin earned his B.S. degree in Civil Engineering from Brigham Young University in Provo, UT. His academic research experience began as an undergraduate, when he was involved in the calibration of automated traffic data collection. Since starting his Ph.D. at Georgia Tech his research focus has shifted to user preference of bicycle infrastructure, working to improve the information base that goes into policy and engineering decisions in planning of bicycle facilities. He is a recipient of the Presidential Fellowship from the School of Civil and Environmental Engineering, and has made his first submission as primary author to the Transportation Research Board for publication in January 2017. Outside of school, he is an avid pianist and swimmer.
John Connelly
Printpack/Love Award
Ph.D. Candidate, Operations Research
First Year ARCS Scholar

John earned his B.S. in Applied Mathematics-Economics from Brown University. As an undergraduate, when not focusing on research in quantitative finance, John played middle linebacker for the Brown Bears football team and founded a university themed board game company. Following graduation, John spent four years working for Morgan Stanley as an analyst in its Investment Banking and Private Equity divisions. He began his post-graduate studies at the Georgia Institute of Technology in 2015 with a President’s Fellowship. His current research focuses on improving the theoretical framework for efficiently solving time-dependent integer programming problems. He is also currently working with an airline to implement a time-discretized model to address workforce challenges they are facing.

Ben Cousins
Betsy Hansen Memorial Award
Ph.D. Candidate, Computer Science
Second Year ARCS Scholar

Ben completed his undergraduate degree at Clemson University, receiving a B.S. in Computer Science and a B.S. in Mathematical Sciences. While at Clemson, he participated in multiple research projects spanning a variety of topics, including computational biology and fluid flow modeling. He has previously been awarded the Barry M. Goldwater Scholarship and the NSF Graduate Research Fellowship. Ben is currently a 5th year Ph.D. student at the Georgia Institute of Technology, with a focus on algorithms for high-dimensional sampling, integration, and its applications. Ben co-authored a paper establishing the current fastest, provably correct volume algorithm for high-dimensional convex bodies. In collaboration with biologists at the University of Luxembourg, he is currently exploring extending these algorithms to analyzing the human metabolism, which has applications in genetics and drug development. Ben enjoys playing sports, including table tennis, baseball, and Frisbee.
Michaelanne Dye
Herz Global Impact Award
Ph.D. Candidate, Human-Centered Computing
First Year ARCS Scholar

Michaelanne earned her B.A. in Spanish from the University of Georgia and her M.A. in Cultural Anthropology from Georgia State. As a Ph.D. candidate in Human-Centered Computing at Georgia Tech, Michaelanne’s research bridges social computing and information communication technology and development (ICTD) to study the impact of growing internet access on sustainable development in Cuba. As part of a recent project, Michaelanne used a human-centered design approach to build a crowdsourced information retrieval system called Cuba Intercambio to serve the needs of her Cuban participants. Michaelanne is a Foley Scholar Finalist and her work has been featured in CNN, New Scientist, and Vice, among others. Michaelanne’s research goal is to inform the responsible design of information-focused interventions that hold meaning and value for new adopters.

Jason Frieman
Lockhead Martin Aeronautics Award
Ph.D. Candidate, Aerospace Engineering
Second Year ARCS Scholar

Jason received a B.S. in Aerospace Engineering with highest honors from Georgia Tech in May 2012. He earned several undergraduate accolades including the Georgia Tech Aerospace Engineering Outstanding Senior Scholar Award, a President’s Undergraduate Research Award, and an Honorable Mention in the 2011 Barry M. Goldwater Scholarship Competition. In 2012, he began his graduate studies at Georgia Tech and received a National Science Foundation Graduate Research Fellowship and a Georgia Tech President’s Fellowship. From 2012-2013, Jason served as chief engineer for the Prox-1 mission; under his leadership, Prox-1 won the 7th AFRL/AFOSR University Nanosatellite Program competition. Jason earned a M.S. in Aerospace Engineering in 2014 and is currently a Ph.D. candidate researching facility effects on spacecraft electric propulsion systems.
Susan Hastings  
Roche/ARCS Century Award  
Ph.D. Candidate, Bioengineering  
Third Year ARCS Scholar

Susan earned her B.S. in Biomedical Engineering from Georgia Institute of Technology in 2013. As an undergraduate, she began her research as a sophomore and received the President’s Undergraduate Research Award, and was a Petit Scholar in the 2012 class. After graduating, she began graduate studies at Georgia Tech with a President’s Fellowship and is currently a PhD Candidate in Bioengineering. She received her M.S. in Mechanical Engineering in August, 2016. Her work focuses on improvement and design of blood-contacting medical devices, such as ventricular assist devices (VADs) and extracorporeal membrane oxygenation (ECMO). She is an avid volleyball player and enjoys scuba diving.

Anna Liu  
Azadi Award  
Ph.D. Candidate, Bioengineering  
First Year ARCS Scholar

Anna grew up in Texas and graduated with honors from the California Institute of Technology with a B.S. in Bioengineering. She completed a corporate internship with HCA and two Caltech SURFs, one in photoelectric semiconductors and the other in 3D-printed tissue engineering. She entered the Georgia Institute of Technology Bioengineering Ph.D. program in 2015 as an NSF IGERT awardee. Her first year work developing an enabling microfluidic platform for cancer immunotherapy earned a grant from the Coulter Translational Partnership and will become a first author publication. She enjoys cooking, staying active, and spending time with her family, friends, and puppy.
Daniel Moreno  
**Siemens-ARCS 25th Anniversary Award**  
*Ph.D. Candidate, Mechanical Engineering*  
*First Year ARCS Scholar*

Daniel received his B.Eng. in Mechanical Engineering in 2014 from Cooper Union in New York City. As an undergraduate, Daniel worked on various research projects in the areas of heat transfer and fluid mechanics. His research interests are in alternative and renewable energy sources. Upon starting at Georgia Tech in 2014, Daniel received the William Randolph Hearst Fellowship for select minority students pursuing M.S. degrees. During his M.S. degree, completed in 2015, Daniel developed and modeled a novel fuel cell design to reduce temperature variations and improve system performance. Daniel is currently a Ph.D. student in Mechanical Engineering performing experimental and computational research on ion transport in flow batteries for grid energy storage.

Amelia Musselman  
**Cooley Award**  
*Ph.D. Candidate, Industrial Engineering*  
*Second Year ARCS Scholar*

Amelia earned her B.S. in Mathematics from Harvey Mudd College in 2011 and M.S. in Operations Research from Georgia Institute of Technology in 2014. She is pursuing her Ph.D. in Industrial Engineering also at Georgia Tech, where she has been awarded the President’s Fellowship. Amelia is interested in applied optimization in the areas of renewable energy and national security. Her dissertation involves three projects: analyzing electrification strategies for sub-Saharan Africa, strategically locating wind farms to minimize the negative impacts of wind variability, and selecting mitigation options to defend against radiological/nuclear material smuggling. Amelia worked at Pacific Northwest National Laboratory prior to beginning her Ph.D. and has also interned at Sandia National Laboratories and RAND Corporation.
Anna Skipper
UPS Award
Ph.D. Candidate, Civil Engineering
Second Year ARCS Scholar

Anna received her B.S. in Environmental Engineering from Georgia Institute of Technology with Highest Honors. As an undergraduate, she conducted three semesters of undergraduate research and earned the President’s Undergraduate Research Award. Her undergraduate work consisted of data analysis of high-speed tomographic measurements of zooplankton. She presented part of this work at the 2014 American Physical Society Division of Fluid Dynamics conference. Since then, Anna has completed her Master’s Thesis investigating the sensory response of an alpine copepod to hydromechanical cues. Anna is currently a second year Ph.D. student at Georgia Institute of Technology and a recipient of the President’s Fellowship. She is also one of ten recipients of the 2016 Geophysical Fluid Dynamics Fellowship at Woods Hole Oceanographic institute. Her research will continue to focus on the biomechanics of zooplankton, with a particular focus on their sensory capabilities.

Paul Rose, Jr.
Nunn Award
Ph.D. Candidate, Nuclear and Radiological Engineering
Second Year ARCS Scholar

Paul earned his B.S. in Nuclear and Radiological Engineering from Georgia Tech in Atlanta, Georgia. During his undergraduate studies, Paul performed 3 years of experimental research in atomic physics working on fundamentals of quantum computing. He transitioned to a graduate student at Georgia Tech in May of 2013 and is now working on research dedicated to nuclear security. His efforts lead to collaborative research at MIT Bates Accelerator Facility working with the particle accelerators used for active interrogation applications and culminated in multiple publications. Throughout his Ph.D. studies, Paul is also working on a minor in Chemistry with a concentration in nuclear security. In his spare time, he enjoys teaching younger students hands on laboratory skills.
Xenia Wirth
Jones Award
Ph.D. Candidate, Civil Engineering
First Year ARCS Scholar

Xenia completed her B.S. in Civil Engineering at Georgia Institute of Technology. She was accepted to the BS/MS program in her third year and was awarded the Richard D. Barksdale Outstanding Undergraduate Student Award in 2014. She earned an M.S. in Civil Engineering from Georgia Institute of Technology and is continuing her studies at the same university as a Ph.D. candidate. She worked at Ecole des Ponts Paris Tech in Paris, France deriving a Statistical Mechanics Adsorption Model as part of the Georgia Tech Gateway to France program. Xenia is currently working on the productive re-use and geologic disposal of coal and biomass fly ashes. She is also interested in improving undergraduate geotechnical engineering education and is first author on a pending publication entitled ‘Undergraduate Geotechnical Engineering Education of the 21st Century’. Xenia enjoys playing oboe, reading and cooking in her spare time.

Shiang-Ting Yeh
Frannie Graves Memorial Award
Ph.D. Candidate, Aerospace Engineering
Third Year ARCS Scholar

Shiang earned his B.S. in Aerospace Engineering from Pennsylvania State University, completing 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, conducting research in the Cognitive Engineering Center. He began his graduate studies at Georgia Tech in 2013 and is currently a Ph.D. candidate for Aerospace Engineering. His research interests are in developing next generation design framework for propulsion systems. In addition to his love for research, Shiang also enjoys activities such as tennis and being involved in advising the Georgia Tech chapter of the Beta Theta Pi Fraternity.
“ARCS scholar awards have supported the scholarly efforts of 107 high achieving science and mathematics majors at Morehouse for 23 years. We were especially pleased to learn that each year one Morehouse ARCS Scholar will receive the prestigious ARCS scholar award recognizing both outstanding scholarship and demonstrated leadership skills. Building future leaders of the country is an important goal of the college. Through its support for both undergraduate and graduate students who aspire to careers in science or mathematics, ARCS Foundation 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 Silvanus Wilson, Jr.
President, Morehouse College
Blake Benyard
Tompkins Award
Physics Major
2nd year ARCS Scholar

Blake Benyard is a senior physics major at Morehouse College. After studying Mandarin at Shanghai University, Blake recognized that his skills in Chinese and mathematics had an application in disciplinary sciences, and decided to minor in both. The following summers, he did nuclear physics research at Los Alamos National Laboratory. His initial work involved comparing gamma spectroscopy data from radioactive nuclide detectors for international threat reduction. Subsequently he conducted radio frequency (RF) testing, computing the dielectric constant and loss tangent of different materials and the shielding effectiveness of RF enclosures. Blake is currently working in the Micro/Nano Optics Research and Engineering (M.O.R.E) lab at Morehouse under Dr. Willie S. Rockward on the fabrication and characterization of nano-materials. The goal of his research is to fabricate a diffraction grating material to control EUV rays. Blake plans to pursue a Ph.D. in medical physics with a specialization in diagnostics.

Dakari Franklin
Georgia-Pacific Award
Physics Major
2nd Year ARCS Scholar

Dakari Franklin is a senior physics major, minoring in mathematics, at Morehouse College. During the summer of 2014 Dakari was introduced to heliophysics research at the University of Alabama, Huntsville and then studied biophysics in Grenoble, France at Commissariat à l’énergie atomique et aux énergies alternatives (CEA) during the summer of 2015. Last summer, Dakari interned at Apple Inc. as a software engineer and developed computer science skills. He is currently in the Micro/ Nano Optics Research and Engineering Lab at Morehouse College studying the fabrication and characterization of nano-materials under the advisement of Dr. Willie Rockward. The goal of his research is the fabrication of a diffraction grating material to control EUV rays. After completing his undergraduate studies, Dakari plans to pursue a Ph.D. in physics.
Amir Hobson  
**Nix/ARCS 25th Anniversary Award**  
*Chemistry Major*  
*2nd Year ARCS Scholar*

Amir Hobson is a senior chemistry major at Morehouse College, with minors in both biology and mathematics. Currently, Amir is working in a smart biomaterial lab under the tutelage of Dr. Juana Mendenhall. The goal of his research is to develop therapeutic functional hydrogels to cure rheumatoid arthritis. This work was inspired by the research he conducted during the summer of 2014 at Cornell University in Ithaca, New York. At Cornell, Amir worked under Dr. Lawrence Bonassar researching the effect of PVCL hydrogels cross-linked with antioxidants on chondrocyte extracellular matrix production. This past summer he conducted research at the University of Michigan under Dr. Wei Cheng synthesizing liposome nanoparticles with varying degrees of surface antigen proteins to study the T cell independent B cell activation pathway. After completing his undergraduate studies, Amir plans to pursue a MD/Ph.D. with a concentration in infectious disease and virology.

Khensu-Ra Love El  
**Genuine Parts Award**  
*Physics Major*  
*1st Year ARCS Scholar*

Khensu-Ra Love El is a junior physics major at Morehouse College with a minor in mathematics. Khensu-Ra was introduced to experimental physics at the Thomas Jefferson National Accelerator Laboratory. Under Dr. HyeKyoung Park, he was involved in research of the optimization of superconducting radiofrequency cavities in medical devices. Currently, Khensu-Ra is working with a mathematics faculty member at Morehouse College where he and colleagues are developing a mathematical model combining different cancer treatments. The goal of this research is to determine the optimal combination of cancer treatments to minimize the size of tumors. This work was inspired by the research of Dr. Shelby Wilson conducted during her post doctorates. After completing his undergraduate studies, Khensu-Ra plans to pursue a Ph.D. in applied physics.
Roy McReynolds
Kaiser Permanente Award
Biology Major
1st Year ARCS Scholar

Roy McReynolds III is a junior biology major, neuroscience minor, at Morehouse College. Prior to his freshman year, Roy was introduced to the field of tissue engineering by Dr. Juana Mendenhall and continued working in her lab, ultimately becoming the lab manager. Roy is working on the development of a standard operating procedure for a 3D bioprinter to facilitate the printing of hydrogels and cartilage chondrocyte cells. Roy’s early interest in neuroscience was solidified by research he conducted though the Center for Sensorimotor Neural Engineering at the University of Washington in Seattle. There he conducted research under Dr. Steve Perlmutter on the effects of intraspinal electrical stimulation above and below an injury in the spinal cord in order to promote neural plasticity in rats. After completing his undergraduate studies, Roy plans to pursue a Ph.D. in regenerative medicine.

Jared Mitchell
Glenn Leadership Award
Physics Major
1st Year ARCS Scholar

Jared Mitchell is a junior physics major at Morehouse College. In the summer of 2012, Jared was exposed to the field of sustainability during a summer research program at the University of Pennsylvania where he studied the environmental impacts of hydraulic fracturing. Motivated by that summer experience, Jared decided to pursue a career in sustainability and environmental justice. He is interested in alternative energy research, with a specific focus on improving solar energy affordability and accessibility around the globe. Currently, Jared is exploring methods to improve efficiency in concentrated solar power and to harness hydrogen at the Carbon-Neutral Energy Solutions (CNES) Laboratory at Georgia Tech. Jared in interested in holistic, sustainable development, especially in countries with lower GDPs and plans to pursue a Ph.D. in the area of solar energy research.
Logan Northcutt
Davis Award
Chemistry Major
1st Year ARCS Scholar

Logan Northcutt is a junior chemistry major at Morehouse College. He is interested in biomedical engineering, as it involves the development of products and materials to assist people with health-related issues. Logan engaged in summer research at both Vanderbilt University Medical Center and Cornell University. This past summer at Cornell University, he studied the role of glucose in the production of glycosaminoglycan in the lab of Dr. Lawrence J. Bonassar. Ultimately, this research will be utilized to create better meniscus replacements. Logan is currently researching chondrocyte cell behavior in hydrogels under normal and hypoxic conditions in the lab of Dr. Juana Mendenhall. After he completes his undergraduate studies, Logan plans to pursue a doctorate degree in biomedical engineering.

Darian Osahar Nwankwo
King & Spalding Award
Computer Science and Mathematics Major
1st Year ARCS Scholar

Darian Nwankwo is a junior computer science and mathematics double major at Morehouse College. During his first summer of college, Darian was introduced to the field of computer science at Google in Mountain View, California. He has conducted research at Morehouse in both mathematics and computer science and is currently doing research in the area of mathematical biology under Dr. S. Wilson. Darian and colleagues are developing mathematical models for drug distribution to malignant tumors. The goal of his research is to improve the distribution method in which several drugs collaborate to attack cancer cells. This work was inspired by Darian’s keen interest in academic research in areas of applied mathematics that benefit a larger cause. After completing his undergraduate studies, Darian plans to pursue a Ph.D. in applied mathematics.
Keith Strozier
Sartain Lanier Award
Applied Physics and Engineering Major
1st Year ARCS Scholar

Keith Strozier is a junior dual degree engineering and applied physics major at Morehouse College. He has conducted research on supplying legume plants with phosphorous through injections of phosphorus fixing bacteria in order to eliminate excessive use of fertilizers posing a threat to our environment. This research along with a passion for math and science introduced Keith to the field of chemical engineering. Currently, Keith is researching novel methods to generate energy, maximize its efficiency, and maintain our environment. Under the advisement of Dr. Duane Jackson, he is researching ways to extract cellulose from different grasses for the production of biofuels. In the future, Keith plans to pursue a Ph.D. in chemistry and to become an innovative chemical engineer.

Miles Stevens
Ritz-Carlton Award
Mathematics and Economics Major
2nd Year ARCS Scholar

Miles Stevens is a junior mathematics and economics double major at Morehouse College. Miles was introduced to geometric combinatorial research at the Mathematical Sciences Research Institute in Berkeley, California. Having conducted research in both economics and mathematics, he is interested in exploring the intersection of these two fields. At MSRI, Miles worked under Dr. Francis Su, President of the Mathematical Association of America, on defining a median voter and developing an analog to the median voter theorem to more accurately predict the outcome of approval elections. Miles is continuing this research under Dr. Duane Cooper studying methods of voting to determine the most optimal choice for widespread use. After completing his undergraduate studies, Miles plans to pursue a Ph.D. in applied mathematics.
“ARCS Foundation is an important partner in supporting doctoral education in the biomedical and health sciences at the University of Georgia. Our graduate students benefit not only from the significant funding provided during their education on campus but also from the vast network of ARCS Scholars that continues to support them in their professional careers.”

Jere W. Morehead
President, The University of Georgia
Lydia Anderson  
**Dick Award**  
_DVM - Ph.D. Candidate, Infectious Diseases_  
Second Year ARCS Scholar

Lydia earned her B.S. in Neuroscience and Behavioral Biology from Emory University. As an undergraduate, Lydia worked as a part-time researcher at the Centers for Disease Control and Prevention (CDC). After graduation, she was awarded an ORISE Fellowship at the CDC to continue her research, and she co-authored six publications in the field of emerging and zoonotic infectious diseases. She is currently a DVM-Ph.D. Candidate in the Department of Infectious Diseases at UGA. Her research in the Tripp laboratory focuses on determining the mechanisms of immunity and disease pathogenesis associated with respiratory syncytial virus. Lydia hopes to use her training to focus her efforts on understanding the mechanisms of immunity and disease pathogenesis associated with respiratory viral infections.

John (“Jay”) Avery  
**Leake/ARCS Century Award**  
_Ph.D. Candidate, Biochemistry and Molecular Biology_  
Second Year ARCS Scholar

John worked as a financial advisor and financial fraud investigator for five years after graduating from the University of Georgia with a B.A. in Spanish. John then returned to academics, receiving a B.S. in Biotechnology and Biochemistry from Kennesaw State University in Atlanta, GA, where he became a Presidential Fellow and a Merck/AAAS Scholar. Subsequently, John joined the Department of Infectious Disease at the University of Georgia, earning his M.S. developing therapeutic interventions for malaria during pregnancy. John is currently pursuing his Ph.D. in Biochemistry, focusing on human tissue engineering. He is developing a method to derive brown adipose from human pluripotent cells. In addition to his scholastic pursuits, John is a triathlete as well as a new father.
Erin Baker
Broscher/Gilham Award
Ph.D. Candidate, Genetics
First Year ARCS Scholar

Erin graduated with a B.A. in Biology from St. Petersburg College in Clearwater, FL. As an undergraduate she developed a keen interest in cell cycle regulation, and conducted research that explored the unique mitotic G0 arrest observed in sea urchin oocytes. Erin was awarded the Excellence in Biological Research award from St. Petersburg College for this project. Post-graduation, Erin went on to work in a prominent coral microbiology lab at the United States Geological Survey, funded by an education award through the AmeriCorps Environmental Stewards Program. Erin is currently a 2016-2017 NIH T-32 training grant recipient in the Genetics Department at the University of Georgia. Here, she studies molecular mechanisms underlying the fetal to adult transition in thymic epithelial cells.

Daniel J. Becker
Mauldin/ARCS 25th Anniversary Award
Ph.D. Candidate, Ecology
Third Year ARCS Scholar

Daniel earned his B.A. in Anthropology and Global Health from Bard College and then worked at the New York Academy of Sciences and Cary Institute of Ecosystem Studies. Daniel is currently a Ph.D. candidate and NSF Graduate Research Fellow at the University of Georgia in the Odum School of Ecology. He combines field studies with mathematical models to understand how human activities that alter wildlife food resources influence infectious disease dynamics. Daniel has published theory and synthesis papers on this topic in Biology Letters, Ecology Letters, and Theoretical Ecology. He is applying this framework to understand how livestock intensification affects transmission of zoonotic pathogens in vampire bats in Latin America, for which Daniel received a NSF Doctoral Dissertation Improvement Grant.
Heather Bishop
Roche/ARCS Membership Award
Ph.D. Candidate, Cellular Biology
Third Year ARCS Scholar

Heather received her B.S. in Biology in 2013 from Southern Polytechnic State University (SPSU). During her time at SPSU, she worked on several research projects and participated in a summer research 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 studying the role of endoplasmic reticulum chaperones in the human malarial parasite, Plasmodium falciparum. Heather was awarded a Center for Tropical and Emerging Global Diseases NIH T32 Training Grant for a second year, which will further support her academic studies and training.

Christopher Cleveland
Olchowski Award
Ph.D. Candidate, Wildlife Ecology
First Year ARCS Scholar

Chris earned his B.S. in Biology from the University of North Carolina at Asheville. As an undergraduate, Chris worked with U.S. Fish and Wildlife Service, and as a researcher in northern Arizona investigating ungulate and passerine ecology. It was here that Chris first gained exposure to wildlife ecology, and went on to complete his M.S. in Veterinary and Biomedical Sciences at the University of Georgia. Upon completion of his M.S. in 2015, Chris began managing a project investigating the role of paratenic hosts in Dracunculus medinensis, the Guinea Worm. Working with The Carter Center, Chris is now pursuing his Ph.D. in Wildlife Ecology at the University of Georgia focusing on the Guinea worm, paratenic hosts, and eradication efforts in Africa.
Kerri Coon  
**Herz Award**  
*Ph.D. Candidate, Entomology*  
*Second Year ARCS Scholar*  

Kerri earned her B.S. in Biology & Biostatistics from the University of Virginia. In her last year, she was awarded an NSF Graduate Research Fellowship to pursue graduate studies. Kerri is currently a Ph.D. Candidate in the Department of Entomology at the University of Georgia. Her research focuses on how gut bacteria contribute to the development and reproduction of disease-transmitting mosquitoes. Kerri has received support from the NIH, the UGA Graduate School, and Sigma Xi. She has won several awards for presentations at national meetings. Kerri is known for her dedication to mentoring; she has served as a graduate mentor for an NSF REU Program for four years now. When not in the lab, Kerri enjoys exploring Athens’ food scene.

Marcus Goudie  
**Cooley ARCS Light Award**  
*Ph.D. Candidate, Biological and Biochemical Engineering*  
*First Year ARCS Scholar*  

Marcus received his B.S. in Chemical Engineering from the University of Michigan in 2012, and received his M.S. in Chemical Engineering from the University of Pennsylvania in 2013. As an undergraduate, he designed microfluidic systems for controlling the contents of microemulsions. During his M.S., he continued his research in microfluidics to develop methods for high throughput encapsulation of bacteria/large organisms. Marcus also has two years of industrial experience designing membrane oxygenators and blood pumps for pediatrics. He has authored 7 publications, a book chapter, and has 2 patents pending. His current work focuses on developing new biomaterials to prevent infection and clotting caused from medical devices, focusing his attention on artificial organs for long term patient support.
Stephanie Herrlinger  
**Herz Global Impact Award**  
*Ph.D. Candidate, Interdisciplinary Neuroscience  
First Year ARCS Scholar*

Stephanie received her B.S. in Molecular Genetics from the University of Rochester. As an undergraduate, Stephanie performed three independent studies, a senior thesis, and graduated with a distinction in research. After graduation, she worked as a technical associate at the University of Rochester studying Huntington’s Disease with the resulting work being published in Nature Communications. In her first few years of her Ph.D. in Interdisciplinary Neuroscience at the University of Georgia, Stephanie has contributed to four publications, all of which have focused on the study of brain development and causes of Microcephaly, including the Zika Virus. Stephanie has an intense passion for understanding the brain and its diseases, and pursues playing and listening to live music in her spare time.

Danielle Lambert  
**Burtchaell Award**  
*Ph.D. Candidate, Health Promotion and Behavior  
First Year ARCS Scholar*

Danielle earned her B.S. in Psychology from the University of North Carolina at Chapel Hill, during which time she studied the effects of positive emotions on resilience and relational outcomes in the Department of Social Psychology’s PEP Lab. She went on to receive her M.P.H from Emory University Rollins School of Public Health focusing on sexual risk reduction interventions among African American women. After completing her degree, Danielle continued working at Emory University as a research coordinator on several faith-based HIV prevention interventions among predominately African American churches in Atlanta, GA. She is currently a Ph.D. student in Health Promotion and Behavior at the University of Georgia assessing HIV/STI prevalence and substance use among juvenile justice involved adolescent couples.
Wided Najahi-Missaoui
Deyo/Prince Award
Ph.D. Candidate, Pharmaceutical and Biomedical Sciences
Third Year ARCS Scholar

Wided earned her Pharm.D degree from the college of Pharmacy in Tunisia. 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 published her first author publication in Blood, a second author publication in Biochemistry and co-authored two other publications. Wided is currently a fourth year PhD candidate and is working in the laboratory of Dr. Brian Cummings in the department of Pharmaceutical and Biomedical Sciences. She is developing novel therapeutic strategies to treat cancer by targeting an overexpressed enzyme in cancer tissues. Wided has recently published her second primary author paper in Nanomedicine: Nanotechnology, Biology and Medicine journal.

Cecilia Sanchez
Adams Award
Ph.D. Candidate, Ecology
First Year ARCS Scholar

Cecilia earned a B.S. in Ecology & Evolutionary Biology at Yale University, then spent a year working at the Australian Animal Health Laboratory in Victoria, Australia. She is now a Ph.D. candidate at the Odum School of Ecology, University of Georgia, studying the impacts of urban development on Australian bat nutrition, health, and infectious disease. She founded Women in Science (WiSci) at UGA and was the group’s president for two years. In recognition of their efforts to promote mentoring, networking, and professional development, WiSci received UGA’s 2015 Outstanding New Organization award. Cecilia was also recognized with UGA’s 2016 Graduate Student Diversity Engagement Award. In her free time, Cecilia enjoys playing roller derby as a member of the Classic City Rollergirls.
# ARCS® FOUNDATION ATLANTA
## 2016-2017 BOARD OF DIRECTORS

### EXECUTIVE BOARD

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Sara Jean Burke</td>
</tr>
<tr>
<td>VP Administration</td>
<td>Frances Swensson</td>
</tr>
<tr>
<td>VP Finance/Treasurer</td>
<td>Lisa Bankoff</td>
</tr>
<tr>
<td>VP Membership</td>
<td>Sally Hinkle</td>
</tr>
<tr>
<td>VP University Relations</td>
<td>Elaine Davis</td>
</tr>
<tr>
<td>VP Funds Development</td>
<td>Lee Doyle</td>
</tr>
<tr>
<td>VP Communications</td>
<td>Pat Leake</td>
</tr>
<tr>
<td>Co-VP Education/Events</td>
<td>Elizabeth Martin &amp; Missy McClatchey</td>
</tr>
<tr>
<td>Recording Secretary</td>
<td>Regina Olchowski &amp; Clare Whitfield</td>
</tr>
</tbody>
</table>

### COMMITTEE CHAIRS

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCS Scholars Chair</td>
<td>Susan McGonigle</td>
</tr>
<tr>
<td>ARCS Scholars Chair-Elect</td>
<td>Sara Batts</td>
</tr>
<tr>
<td>ARCS Scholar Alumni Chair</td>
<td>Lissa Webber</td>
</tr>
<tr>
<td>Assistant Treasurer</td>
<td>Pat Bras</td>
</tr>
<tr>
<td>Directory Chair</td>
<td>Deede Stephenson</td>
</tr>
<tr>
<td>Funds Development VP Elect</td>
<td>Suzy Wasserman &amp; Kelli Keb</td>
</tr>
<tr>
<td>Historian</td>
<td>Connie Dotzenrod</td>
</tr>
<tr>
<td>Internal Communications Chair</td>
<td>Peg Cooley</td>
</tr>
<tr>
<td>Newsletter Editors</td>
<td>Molly Eskew &amp; Leslie Petter</td>
</tr>
<tr>
<td>Newsletter Publisher</td>
<td>Marie Stafford</td>
</tr>
<tr>
<td>Public Relations Chair</td>
<td>Alicia McCabe</td>
</tr>
<tr>
<td>Public Relations Chair-Elect</td>
<td>Louise Yeoman</td>
</tr>
<tr>
<td>2016 Scholar Awards Luncheon Chair</td>
<td>Patty Reid</td>
</tr>
<tr>
<td>Scholar Awards Luncheon Chair Elect</td>
<td>Mary Watson</td>
</tr>
<tr>
<td>Speakers Chair</td>
<td>Caroline Hardin</td>
</tr>
<tr>
<td>Special Events Chair</td>
<td>June Tompkins</td>
</tr>
<tr>
<td>Special Events Chair-Elect</td>
<td>Carolynn Cooper</td>
</tr>
<tr>
<td>University Relations VP Elect</td>
<td>Linda Kay McGowan</td>
</tr>
<tr>
<td>Website Chair</td>
<td>Ronnie Martin</td>
</tr>
</tbody>
</table>

### APPOINTED BY THE PRESIDENT

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>25th Anniversary Chairs</td>
<td>Ginny Plummer &amp; Susan Higley</td>
</tr>
<tr>
<td>Assistant to the President</td>
<td>Gracia Conn</td>
</tr>
<tr>
<td>Endowment Fund Chair</td>
<td>Janie Wilson</td>
</tr>
<tr>
<td>Parliamentarian</td>
<td>Marty Gillin</td>
</tr>
<tr>
<td>Nominating Chair</td>
<td>Jane Dolinger</td>
</tr>
</tbody>
</table>
## ARCS FOUNDATION
### ATLANTA CHAPTER MEMBERSHIP

<table>
<thead>
<tr>
<th>ACTIVE MEMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yetty L. Arp</td>
</tr>
<tr>
<td>Cyndae Arrendale*</td>
</tr>
<tr>
<td>Farideh Azadi*</td>
</tr>
<tr>
<td>Lisa H. Bankoff</td>
</tr>
<tr>
<td>Mollie Winston Barrow</td>
</tr>
<tr>
<td>Sarah Batts</td>
</tr>
<tr>
<td>Jan K. Bennett</td>
</tr>
<tr>
<td>Kelley O’Neal Berman*</td>
</tr>
<tr>
<td>Jeanne L. Berry</td>
</tr>
<tr>
<td>Rebecca B. Blalock</td>
</tr>
<tr>
<td>Sally C. Boice</td>
</tr>
<tr>
<td>Anne M. Boyd</td>
</tr>
<tr>
<td>Susan M. Boyd</td>
</tr>
<tr>
<td>Patricia A. Bras</td>
</tr>
<tr>
<td>Sara Jean Burke</td>
</tr>
<tr>
<td>Marnite Calder</td>
</tr>
<tr>
<td>Jennifer G. Cannon</td>
</tr>
<tr>
<td>Lesley Carroll</td>
</tr>
<tr>
<td>Nancy L. Chambers</td>
</tr>
<tr>
<td>Marilyn Colarossi-Woods</td>
</tr>
<tr>
<td>Gracia M. Conn</td>
</tr>
<tr>
<td>Margaret P. Cooley</td>
</tr>
<tr>
<td>Carolyn Cooper</td>
</tr>
<tr>
<td>Lynn M. Cornett</td>
</tr>
<tr>
<td>Ada Lee Correll</td>
</tr>
<tr>
<td>Ann Q. Curry</td>
</tr>
<tr>
<td>Erin C. Dasher*</td>
</tr>
<tr>
<td>Elaine C. Davis</td>
</tr>
<tr>
<td>Susie Deyo</td>
</tr>
<tr>
<td>Sylvia L. Dick</td>
</tr>
<tr>
<td>Jane F. Dolinger</td>
</tr>
<tr>
<td>Karen Doolittle</td>
</tr>
<tr>
<td>Constance F. Dotzenrod</td>
</tr>
<tr>
<td>Margaret Lee Doyle</td>
</tr>
<tr>
<td>Anne D. Easterly</td>
</tr>
<tr>
<td>Marie Edwards</td>
</tr>
<tr>
<td>Margaret O. Eskew</td>
</tr>
<tr>
<td>Elizabeth E. Finnerty</td>
</tr>
<tr>
<td>Virginia Gidden-Weinzierl*</td>
</tr>
<tr>
<td>Martha B. Gillin</td>
</tr>
<tr>
<td>Louise R. Glenn</td>
</tr>
<tr>
<td>Kathryn H. Graves</td>
</tr>
<tr>
<td>Joanne C. Gross</td>
</tr>
<tr>
<td>Caroline P. Hardin</td>
</tr>
<tr>
<td>Laura J. Hardman</td>
</tr>
<tr>
<td>Katherine R. Harman</td>
</tr>
<tr>
<td>Mary B. Hataway*</td>
</tr>
<tr>
<td>Kitty P. Hawks</td>
</tr>
<tr>
<td>Janis H. Henry*</td>
</tr>
<tr>
<td>Susan J. Higley</td>
</tr>
<tr>
<td>Sally N. Hinkle</td>
</tr>
<tr>
<td>Sally C. Jobe</td>
</tr>
<tr>
<td>Cheryl Dabney Johnson</td>
</tr>
<tr>
<td>Corrie D. Johnson</td>
</tr>
<tr>
<td>Cecile M. Jones</td>
</tr>
<tr>
<td>Elizabeth R. Jones</td>
</tr>
<tr>
<td>Kelli H. Keb</td>
</tr>
<tr>
<td>Anita K. Kern</td>
</tr>
<tr>
<td>Robin L. King</td>
</tr>
<tr>
<td>Liz Mori Lauer</td>
</tr>
<tr>
<td>Patricia S. Leake</td>
</tr>
<tr>
<td>Elizabeth Levine</td>
</tr>
<tr>
<td>Barbara Levy</td>
</tr>
<tr>
<td>Deborah Liss</td>
</tr>
<tr>
<td>Betts C. Love</td>
</tr>
<tr>
<td>Valerie M. Love</td>
</tr>
<tr>
<td>Sherry B. Lundeen</td>
</tr>
<tr>
<td>Beaty Maffett</td>
</tr>
<tr>
<td>Elizabeth Martin</td>
</tr>
<tr>
<td>Rhonda J. Martin</td>
</tr>
<tr>
<td>Alicia McCabe</td>
</tr>
<tr>
<td>Melissa McClatchey</td>
</tr>
<tr>
<td>Sally S. McDaniel</td>
</tr>
<tr>
<td>Susan B. McGonigle</td>
</tr>
<tr>
<td>Linda Kay McGowan</td>
</tr>
<tr>
<td>Margery McKay</td>
</tr>
<tr>
<td>Leslie D. McLeod</td>
</tr>
<tr>
<td>Carol S. Meier</td>
</tr>
<tr>
<td>Joanne T. Michaels</td>
</tr>
<tr>
<td>Catherine Millichap</td>
</tr>
<tr>
<td>Susan J. Missbach</td>
</tr>
<tr>
<td>Caroline E. Moise*</td>
</tr>
<tr>
<td>Regina Olchowski</td>
</tr>
<tr>
<td>Leslie Z. Petter</td>
</tr>
<tr>
<td>Virginia P. Plummer</td>
</tr>
<tr>
<td>Mary M. Poe</td>
</tr>
<tr>
<td>Kathy Ranier</td>
</tr>
<tr>
<td>Patricia H. Reid</td>
</tr>
<tr>
<td>Vicki J. Riedel</td>
</tr>
<tr>
<td>Phyllis E. Rodbell</td>
</tr>
<tr>
<td>Elizabeth Morgan Spiegel</td>
</tr>
<tr>
<td>Marie B. Stafford</td>
</tr>
<tr>
<td>Patricia H. Stephenson</td>
</tr>
<tr>
<td>Anne Sterchi</td>
</tr>
<tr>
<td>Suzn Stewart</td>
</tr>
<tr>
<td>Frances D. Swensson</td>
</tr>
<tr>
<td>Carol Teem</td>
</tr>
<tr>
<td>June Tompkins</td>
</tr>
<tr>
<td>Elizabeth Troy</td>
</tr>
<tr>
<td>Pat Tuff</td>
</tr>
<tr>
<td>Margaret Turk*</td>
</tr>
<tr>
<td>Cathy W. Wahlen</td>
</tr>
<tr>
<td>Suzy Wasserman</td>
</tr>
<tr>
<td>Mary M. Watson</td>
</tr>
<tr>
<td>Lissa Petter Webber</td>
</tr>
<tr>
<td>Brooke T. Weinmann</td>
</tr>
<tr>
<td>Michelle Wells</td>
</tr>
<tr>
<td>Clare G. Whitfield</td>
</tr>
<tr>
<td>Barbara S. Williams</td>
</tr>
<tr>
<td>Nancy Parks Williams*</td>
</tr>
<tr>
<td>Janie J. Wilson</td>
</tr>
<tr>
<td>Louise T. Yeoman</td>
</tr>
</tbody>
</table>

*New Members
# ARCS FOUNDATION
## ATLANTA CHAPTER MEMBERSHIP

### ASSOCIATE MEMBERS

<table>
<thead>
<tr>
<th>Madeline R. Adams</th>
<th>Kristen M. Gibbs</th>
<th>Betty N. Mori</th>
</tr>
</thead>
<tbody>
<tr>
<td>Janie Woods Alexander</td>
<td>Caroline M. Gilham</td>
<td>Michelle Nordin</td>
</tr>
<tr>
<td>Kathy B. Ashe</td>
<td>Sally Gladden*</td>
<td>Andi Purple</td>
</tr>
<tr>
<td>Kathy Berry</td>
<td>Joan S. Goodhew</td>
<td>Sharon S. Quaintance</td>
</tr>
<tr>
<td>Paula Lawton Bevington</td>
<td>Susan Harter*</td>
<td>Nancy Sineath Rank</td>
</tr>
<tr>
<td>Susan M. Bledsoe</td>
<td>Ann P. Hill</td>
<td>Lynn Cochran Schroder</td>
</tr>
<tr>
<td>Alice C. Brown</td>
<td>Jane L. Huffard</td>
<td>Mary Snitch</td>
</tr>
<tr>
<td>Ann D. Cousins</td>
<td>Trina L. Johns</td>
<td>Mary Rose Taylor</td>
</tr>
<tr>
<td>Marcia G. Donnell</td>
<td>Ann Estes Klamon</td>
<td>Babette J. Tipping</td>
</tr>
<tr>
<td>Patsy Drummond</td>
<td>Margaret Kresge</td>
<td>Kay C. Weiss</td>
</tr>
<tr>
<td>Carla D. Fackler</td>
<td>Lynne C. Land</td>
<td>Kristin D. Whatley</td>
</tr>
<tr>
<td>Betty C. Feezor</td>
<td>Linda T. Mauldin</td>
<td>Susan W. Wieland</td>
</tr>
<tr>
<td>Marie Brumley Foster</td>
<td>Sue L. Mobley</td>
<td></td>
</tr>
</tbody>
</table>

### HONORARY MEMBERS

- Carol Espy-Wilson
- Mary O’Connor
- Valerie H. Peterson
- Pamela Whitten*

*New Members*
CHAIRMAN: Patty Reid
CHAIRMAN-ELECT: Mary Watson
FUNDS DEVELOPMENT:
- Lee Doyle, Chair
- Kelley Berman
- Nancy Chambers
- Erin Dasher
- Anne Easterly
- Ree Edwards
- Janis Henry
- Corrie Johnson
- Libby Jones
- Kelli Keb, Co-Chair Elect
- Sherry Lundeen
- Sally McDaniel
- Linda Kay McGowan
- June Tompkins
- Liz Troy
- Margaret Turk
- Suzy Wasserman, Co-Chair Elect

FLOWERS: Missy McClatchey
NAMETAGS: Deede Stephenson
PHOTOGRAPHER: Lisa Bankoff
PROGRAM: Mary Watson
PUBLIC RELATIONS: Alicia McCabe
REGISTRATION/RESERVATIONS: Ronnie Martin
SCHOLAR RELATIONS: Susan McGonigle
SEATING:
- Caroline Hardin, Chair
- Lee Doyle
- Pat Leake
- Valerie Love
- Sherry Lundeen

UNIVERSITY RELATIONS: Elaine Davis
AMBASSADORS:
- Corrie Johnson, Chair
- Cyndae Arrendale
- Farideh Azadi
- Pat Bras
- Molly Eskew
- Kristen Gibbs
- Joanne Chesler Gross
- Janis Henry
- Susan Higley
- Robin King
- Liz Lauer
- Elizabeth Martin
- Carol Meier
- Caroline Moise
- Marie Stafford
- Frances Swensson
- Babette Tipping
- Liz Troy
- Margaret Turk
- Michelle Wells
- Nancy Williams