



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.

FROM THE PRESIDENT



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 its generous contribution as the Presenting Sponsor of the 2016 Scholars Award Luncheon.



NORTHSIDE HOSPITAL

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.

MONARCS®

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 Marcia and John Donnell Wilbur and Hilda Glenn Family Foundation	Frannie* and Bill Graves Betsy* and Harald Hansen Joachim Herz Stiftung J. H. Holdings Siemens
---	--

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

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

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

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

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

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

*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

ARCS® FOUNDATION, INC.

ATLANTA CHAPTER PAST PRESIDENTS

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

Sara Jean Burke	Chapter President
Nancy Chambers	Affiliate
Jane Dolinger	Affiliate
Debbie Liss	Council of Advisors
Sherry Lundeen	National Endowment Committee
Sally McDaniel	Chair, Funds Development
Andi Purple	President-Elect
Mary Snitch	Council of Advisors
Janie Wilson	National Endowment Committee



EMORY UNIVERSITY

CLAIRE E. STERK, PRESIDENT

“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.



Kathleen Hartnett

Glenn Award

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

Kathleen Hartnett is a doctoral student in epidemiology. A native of Atlanta, Kathleen earned a B.A. with highest honors from Emory College, where she was editor-in-chief of the student newspaper. For nine years, she worked as a journalist in South Florida, winning national awards for her coverage of children's health and education. She returned to Emory for an MPH in Epidemiology, where she was a Boisfeuillet Jones Scholar. Her doctoral work is focused on maternal and child health, particularly pregnancy outcomes in young cancer survivors. She enjoys spending time with her husband and two daughters.



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 J. Tyler
Klamon/Reid Award

Ph.D. Candidate, Chemistry
First Year ARCS Scholar

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
Colarossi-Woods/Doyle/Wahlen Award

Ph.D. Candidate, Chemistry
Second Year ARCS Scholar

In 2013, 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.



G.P. "BUD" PETERSON, PRESIDENT

"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 GeorgiaTech has played especially meaningful for us. Since 1992, the Atlanta Chapter has awarded more than \$1,000,000 to Scholars at GeorgiaTech. 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 GeorgiaTech 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 GeorgiaTech 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.



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 GeorgiaTech 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 GeorgiaTech 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.



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.



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.



MOREHOUSE COLLEGE

JOHN SILVANUS WILSON, JR., PRESIDENT

“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 through 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 is 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.



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.



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.

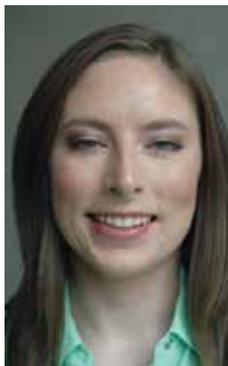


UNIVERSITY OF GEORGIA

JERE W. MOREHEAD, PRESIDENT

“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 financials 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

President	Sara Jean Burke
VP Administration	Frances Swensson
VP Finance/Treasurer	Lisa Bankoff
VP Membership	Sally Hinkle
VP University Relations	Elaine Davis
VP Funds Development	Lee Doyle
VP Communications	Pat Leake
Co-VP Education/Events	Elizabeth Martin & Missy McClatchey
Recording Secretary	Regina Olchowski & Clare Whitfield

COMMITTEE CHAIRS

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

APPOINTED BY THE PRESIDENT

25th Anniversary Chairs	Ginny Plummer & Susan Higley
Assistant to the President	Gracia Conn
Endowment Fund Chair	Janie Wilson
Parliamentarian	Marty Gillin
Nominating Chair	Jane Dolinger

ARCS FOUNDATION ATLANTA CHAPTER MEMBERSHIP

ACTIVE MEMBERS

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

**New Members*

ARCS FOUNDATION ATLANTA CHAPTER MEMBERSHIP

ASSOCIATE MEMBERS

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

HONORARY MEMBERS

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

**New Members*

SCHOLAR AWARDS LUNCHEON COMMITTEE 2016

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	Elizabeth Martin
	Farideh Azadi	Carol Meier
	Pat Bras	Caroline Moise
	Molly Eskew	Marie Stafford
	Kristen Gibbs	Frances Swensson
	Joanne Chesler Gross	Babette Tipping
	Janis Henry	Liz Troy
	Susan Higley	Margaret Turk
	Robin King	Michelle Wells
	Liz Lauer	Nancy Williams

