Achievement Rewards for College Scientists

ARCS

Celebrating 35 Years

Aeronautics & Astronautics • Applied Mathematics • Aquatic & Fishery Sciences • Astronomy • Atmospheric Sciences • Biology • Bioengineering • Biostatistics • Chemical Engineering • Chemistry • Civil & Environmental Engineering • Computer Science & Engineering • Crop & Soil Sciences • Earth & Space Sciences • Electrical Engineering • Environmental Health • Epidemiology • Forest Resources • Global Animal Health • Industrial Engineering • Materials Science & Engineering • Mathematics • Mechanical Engineering • Medical Scientist Training Program • Medicinal Chemistry • Molecular & Cellular Biology • Molecular Biosciences • Molecular Plant Sciences • Neurobiology & Behavior Neuroscience • Nursing • Oceanography • Pathobiology • Pharmacy • Physics • Plant Pathology • Public Health Genetics • Quantitative Ecology & Resource Management Statistics • Veterinary & Comparative Anatomy, Pharmacology & Physiology • Veterinary Clinical Sciences • Veterinary Microbiology & Pathology

Advancing Science in America
The Seattle Chapter of ARCS® Foundation, Inc. contributes to the worldwide advancement of science and technology by funding fellowships for academically outstanding students in the fields of science, engineering and medical research at the University of Washington and Washington State University.

Contents

Thoughts from the Presidents ...................... 1
Seattle Chapter: Thirty-five Years ............... 2
Become an ARCS Foundation Donor ............. 3
University of Washington Fellows ............... 5
Washington State University Fellows .......... 11
In Their Own Words .............................. 13
Where Are They Now? .......................... 14
ARCS Light Award .............................. 15
Donors ......................................... 17

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2014 Annual Luncheon Co-Chairs

"Every great advance in science has issued from a new audacity of imagination."
— John Dewey
“As we celebrate 35 successful years, I’d like to extend our sincere gratitude to our remarkable supporters. Your visionary generosity gives our state’s preeminent research institutions a competitive edge to recruit the nation’s brightest PhD candidates in STEM-related disciplines. Your investment directly advances the nation’s scientific and technological discoveries while stimulating our local and national economy. Thank you for your support!”

ANDREA THORESON — President, Seattle Chapter ARCS Foundation

“ARCS Foundation, Seattle is one of the UW’s most esteemed partners. For 35 years ARCS Foundation has promoted leadership in the sciences with its outstanding support of top doctoral scholars in science, engineering and medical research. We thank ARCS for its commitment and look forward to continuing our collaboration.”

MICHAEL K. YOUNG — President, University of Washington

“WSU’s doctoral programs are among the best in the country. Supporting these PhD candidates helps ensure their success when one day they are charged with taking care of the world. I take pride in not only our students, but in the dedication and confidence shown by those who contribute to their education. ARCS Foundation, Seattle makes a huge difference to these students now, and its commitment will have lasting, global impact.”

ELSON S. FLOYD, PhD — President, Washington State University
The Seattle Chapter of ARCS Foundation, Inc. was founded in 1978 as part of ARCS Foundation National, which today numbers more than 1,500 visionary women in 17 chapters across the United States who encourage the worldwide advancement of science and technology by funding scholar awards for undergraduate and graduate students in the fields of science, engineering and medical research.

Motivated by a unique combination of social consciousness, intellectual curiosity and generosity, ARCS Foundation National has provided more than $87 million in awards to 14,754 scholars at 54 universities nationwide.

A dynamic, committed membership has made the Seattle Chapter one of the most successful in the nation, and both the UW and WSU view their relationship with ARCS Foundation as a strategic partnership.

The Seattle Chapter has been part of the UW community for 35 years and WSU’s for more than 13. The chapter’s annual funding of graduate scholars has grown from $1000 in 1978 to $785,000 in 2013, supporting 131 Fellows at UW and WSU this year.

Matching funds, initiated by the UW and WSU in 1990 to endow ARCS Fellowships, have encouraged generous donors to the Seattle Chapter to create 36 Endowments of more than $100,000 each, an increase of nine in the last year. Through these Endowed Fellowships, a donor can support ARCS scholars in perpetuity.
Please join the Seattle Chapter in supporting Washington State’s vibrant intellectual and scientific community with a gift to ARCS Foundation. Your gift will support top science and engineering graduate students at our esteemed public universities, and is an opportunity to impact America’s scientific and economic future.

Gifts of any size are greatly appreciated and will help support our scholars. There are also special opportunities to fund Named Fellowships as detailed below.

**FUND A SEATTLE CHAPTER FELLOWSHIP**  
$17,500  
Funds one scholar’s three-year Named Fellowship.

**ENDOW AN ARCS FOUNDATION FELLOWSHIP**  
$100,000  
Funds one Named Endowed Fellowship in perpetuity.

**MATCHING OPPORTUNITIES**  
Through the generosity of the UW and WSU, any donor wishing to create an Endowed ARCS Foundation Fellowship will be entitled to matching funds. Please contact us to learn more about this worthwhile opportunity.

TO LEARN MORE ABOUT HOW YOU CAN MAKE A GIFT, PLEASE CONTACT THE SEATTLE CHAPTER AT:

Seattle Chapter  
ARCS Foundation, Inc.  
Private Mailbox 429  
4616 25th Avenue N.E.  
Seattle, WA 98105

E-mail: information@seattlearcsfoundation.org  
Website: www.seattlearcsfoundation.org

ARCS Foundation, Inc. is a non-profit organization incorporated in 1978. Tax ID 91-1042292.
### FIRST YEAR FELLows

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### SECOND YEAR FELLows

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"Nothing has done more to enhance graduate student diversity at the UW than ARCS Foundation, Seattle Fellowships. They make the difference in competing successfully with elite private universities for top graduate student talent."

— Toby Bradshaw, Chair, Biology, University of Washington
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**UNIVERSITY OF WASHINGTON FELLOWSHIP SUPPORT AREAS**

The Seattle Chapter of ARCS Foundation, Inc. currently supports UW students in the following departments and schools:

### COLLEGE OF ARTS & SCIENCES
- Applied Mathematics
- Astronomy
- Biology
- Chemistry
- Mathematics
- Physics
- Statistics

### COLLEGE OF ENGINEERING
- Aeronautics & Astronautics
- Bioengineering (jointly with the College of Medicine)*
- Chemical Engineering
- Civil & Environmental Engineering
- Computer Science & Engineering
- Electrical Engineering
- Industrial Engineering
- Materials Science & Engineering
- Mechanical Engineering

### COLLEGE OF THE ENVIRONMENT
- Aquatic & Fishery Sciences
- Atmospheric Sciences
- Earth & Space Sciences
- Environmental & Forest Sciences
- Oceanography

### GRADUATE SCHOOL (INTERDISCIPLINARY)
- Molecular & Cellular Biology
- Neurobiology & Behavior
- Pathobiology
- Quantitative Ecology & Resource Management (QERM)

### SCHOOL OF MEDICINE
- Bioengineering (jointly with the College of Engineering)*
- Medical Scientist Training Program (MSTP)

### SCHOOL OF NURSING

### SCHOOL OF PHARMACY
- Medicinal Chemistry
- Pharmaceutics
- Pharmacy

### SCHOOL OF PUBLIC HEALTH
- Biostatistics
- Environmental Health
- Epidemiology
- Institute for Public Health Genetics

*New support area in 2013-2014*
The UW established its inter-college graduate program in Computer Science (now the Department of Computer Science & Engineering (CSE)) in 1967. Recognized by The New York Times as a major nexus of the west coast information economy, the graduate program annually receives more than 1100 applications and admits 10 percent.

The UW’s CSE PhD program, regarded among the top 10 in America, is poised to become one of the top five due to its national and international reputation for producing highly sought-after graduates who have benefited from the program’s “open” collegial, collaborative, interdisciplinary culture. Twenty-nine of CSE’s 50 faculty have won Presidential National Science Foundation Young Investigator Awards; twenty have received Sloan Research Fellowships; and one has been recognized with a MacArthur “Genius” Fellowship.

Through revolutionary, far-reaching research, these PhD scholars are improving multiple aspects of everyday life in Washington State and beyond, from reducing home energy consumption, to strengthening the security of modern automobiles, to improving implanted medical devices. Over the past five years, 49 percent of those receiving PhDs in Computer Science & Engineering have remained in Seattle and Washington.
Ben Segal has been a swimmer all his life — in fact, he swam competitively from age seven until just last year. “I’m fascinated by water,” he says. “Sitting on the beach, watching the waves come in — it’s always interested me.”

Ben has applied that lifelong fascination to his research: he’s studying ocean waves to predict how they will act. It’s not an overstatement to say that this research has the potential to save lives. “It could lead to improved tsunami prediction,” says Ben, “gauging how fast the tsunami will move, where it will hit, and how high it will be when it reaches shore.” His work could also help predict rogue waves, the massive and seemingly spontaneous surface waves that occur far out at sea and pose a threat to even the largest ships.

Ben, whose ARCS Fellowship is funded by Dottie Simpson, is pursuing a PhD in applied mathematics at the University of Washington. “The Fellowship was one of the leading reasons I came to UW,” he says. “Life as a graduate student is typically pretty tough, and having this money has been like a security blanket.” He adds, “My whole life has been a little better because of this ARCS Fellowship.”
Harriett Morton isn’t a member of the Seattle Chapter of ARCS Foundation, but she and her husband, John, believe in the ARCS mission. “We like to support these bright young people,” says John Morton. “It benefits them as individuals and has the potential to benefit our local economy and society overall as well.”

The bright young person that John and Harriett Morton are supporting is ARCS Fellow John Lee, who is in his second year pursuing a PhD in physics at the University of Washington.

John is testing the equivalence principle, which assumes that gravitational forces accelerating a body are independent of the mass of the body. “But current thinking is that acceleration by gravitational force may actually be something quite different,” John says. “Many theories incorporating gravity with quantum mechanics predict violations of the equivalence principle. Confirming this predicted violation would be a significant step toward determining which proposed theory best describes our universe.”

John and the Mortons have bonded over their shared interests in science — and hiking: all three enjoy the mountains. “I appreciate that the Mortons care about what I’m doing,” says John. “It’s nice to know that someone outside the field is curious about it.” Harriett, a chemistry major in college, adds, “The pleasure of doing this is that it allows me to be virtually involved in science — science that may change the world.”
“Getting to know the people who are encouraging me, who put their money on the line for me — it just makes me want to work that much harder,” says Yvonne Thompson, recipient of an ARCS Fellowship funded by Delphine and Charles Stevens. Yvonne is in her second year pursuing a PhD in crop and soil sciences at Washington State University. Her research focuses on two diseases of wheat that are responsible for tremendous crop losses in the Pacific Northwest.

Yvonne enjoys the personal relationship she has with the couple. “They’re interested in my work and in who I am; I’m interested in them, too.” Delphine echoes those sentiments. “We felt an instant connection to her,” she says, perhaps because all three share the experience of moving far from home to pursue an education: Yvonne is from Memphis, Tennessee; Delphine and Charles, from England. “We understand what it’s like to start from scratch, as Yvonne has,” notes Delphine. “She’s got the right attitude to take that on. Charles and I know what a life-changing experience a good education can be.”

Yvonne, for her part, is grateful for how ARCS — and the Stevens family — have made it easier for her to concentrate on her research. “It’s truly been a blessing,” she says.
The impact of ARCS Foundation, Seattle Fellowships cannot be overstated. They help ensure that many of the best and brightest students choose to develop, pursue and apply their scholarship at Washington State.

— William Andrefsky, Jr., Edward R. Meyer Distinguished Professor, Dean of the Graduate School, Washington State University
The Gene and Linda Voiland School of Chemical Engineering and Bioengineering is a rapidly growing program with a reputation for producing high-quality, hands-on engineers who become industry leaders.

The school’s primary research foci are chemical and biological catalysis for clean energy and protein systems engineering. In partnership with the Pacific Northwest National Laboratory (PNNL), WSU is positioned to be a national leader in developing and testing catalysts for energy processing. Research in protein systems engineering is increasing fundamental understanding of protein-mediated molecular and cellular processes that will lead to improvements in health and quality of life for millions of Americans.

With their long history of interdisciplinary collaboration, Voiland School faculty and students are critically important to the success of high-profile endeavors institution-wide and in collaboration with PNNL. The school is seeing a growing number of PhD students, including those from nontraditional backgrounds and underrepresented groups, supported through competitively-awarded federal and industrial funds.

WASHINGTON STATE UNIVERSITY
Gene and Linda Voiland School of Chemical Engineering and Bioengineering
An ARCS Foundation-Supported Program
“It’s tough to put into words what a difference having an ARCS Fellowship makes,” says Lindsay Fry, who is a third year veterinary science PhD candidate at Washington State University. “It reduced the sacrifice I had to make coming back to school after working in private practice and frees me to truly enjoy what I came here to do.”

Lindsay, whose Fellowship is funded by Trish and Jim Rogers, became a veterinarian in 2009 and worked in private practice for two years before deciding to pursue her doctorate. She’s looking at the disease East Coast Fever, which affects cattle in thirteen countries in Sub-Saharan Africa. Caused by a tick-borne parasite, the disease kills over one million animals each year; in some populations, it’s 90 percent fatal.

“We’re looking at the cows that survive,” says Lindsay. “We’re trying to understand their immune response with the hope that someday a vaccine can be developed.” She continues, “This could change lives. East Coast Fever has a huge impact on families, some of whom rely on just one or two animals for many of their basic needs: meat, milk and hide. Some people’s very survival depends on these animals.”
In Their Own Words

**WSU FELLOW Cory A. Gall**

**DEPARTMENT** Veterinary Science  
**DONOR** Seattle Chapter ARCS

“The ARCS Fellowship has given me the resources to explore higher-risk projects in my research. And the camaraderie among ARCS Fellows is beneficial both academically and socially.”

**UW FELLOW Daisy Krakowiak**

**DEPARTMENT** Epidemiology  
**DONOR** Alida and Christopher Latham

“Professors give ARCS Fellows more responsibility than other grad students. The leadership experience I am gaining as a coordinator for a randomized clinical trial for home-based partner education and HIV testing in Kenya is invaluable to my career.”

**UW FELLOW Bradley Markle**

**DEPARTMENT** Earth & Space Sciences  
**DONOR** Betty Bottler

“In the last year I’ve conducted two field seasons in Alaska and one season in Antarctica. None of this would have been possible without help from ARCS Foundation that allows me to focus on research instead of searching for funding.”

**WSU FELLOW Gracen Smith**

**DEPARTMENT** Molecular Plant Science  
**DONOR** Seattle Chapter ARCS

“Being an ARCS Fellow links me to other young researchers in different fields, providing the opportunity for collaborations I wouldn’t have realized are possible. The ARCS Fellowship gives us the freedom to pursue answers to our questions without being limited by financial constraints, which means the only limits are those of our imaginations.”
Assistant Professor of Neuroscience and former ARCS Fellow Dr. James Peters received his PhD from WSU in 2005 and returned in 2010 as a faculty member. “Coming back has been really positive,” he says, “and the work I’m doing now complements the work I did before.”

While pursuing his doctorate, James researched how messages are sent from the digestive system to the brain via the vagus nerve. “I’m looking at how the nervous system regulates when and how much we eat. Previously I studied how the neurons are activated in the gastrointestinal tract. Now I’m focusing on the other end of the nerve: the signal when it gets to the brain.”

James’ research focuses on the connection, or synapse, between the vagus nerve and the brain. He studies one important ion channel and its role in how the synapse “talks” to the brain. “If the synapse is dysregulated, the signal gets obscured — which may underlie issues such as obesity and type 2 diabetes,” he says.

Jim credits ARCS Foundation with helping him get where he is today. “The funding not only made life easier at the time, it also helped set my trajectory,” he says.
A proud sponsor of ARCS Foundation since 2011, Fred Hutchinson Cancer Research Center supports dedicated students today who will advance science tomorrow. “Since 2000, 27 ARCS Fellows have participated in a variety of research programs at the Hutch. These scholars have benefited from faculty mentoring and our collaborative research environment,” says Mark Groudine, MD, PhD, senior vice president and deputy director of FHCRC. “ARCS Fellowships are invaluable in recruiting the most outstanding students, who in turn energize the Center’s research.”

Since opening in 1975, Fred Hutch has made some of the world’s most important medical advances, from developing the bone marrow transplant as a cure for many forms of leukemia, to pioneering powerful immune therapies to fight cancers such as melanoma.

Fred Hutch researchers, including three Nobel Laureates and a MacArthur Fellow, break ground in many areas: exploring fundamental mechanisms in cellular and molecular biology that lead to precisely targeted, lifesaving treatments; detecting cancer at its earliest, most curable stages; preventing cancer and other diseases by understanding how lifestyle choices impact risk; and studying the links between infectious diseases and cancer.

The Seattle Chapter of ARCS Foundation is grateful that this remarkable Northwest institution extends its support to our outstanding scholars.

ARCS Foundation, Seattle is pleased to present Micki Flowers with the 2013 ARCS Light Award. Given to members who have made significant contributions to the chapter, the award found its way to a worthy recipient in this former Chapter President, VP of University Relations, VP of Nominations and Chair of Public Relations.

Micki, a UW graduate, is the former health specialist, reporter and anchor for KIRO TV News. Her volunteer commitments have included Seattle Chapter of The Links, Odessa Brown Children’s Clinic (OBCC), AIDS Housing of Washington, the UW Graduate Opportunities and Minority Achievement Program and the UW Foundation.

Her community service awards include Municipal League of King County Citizen of the Year, Nordstrom Outstanding Community Service Award, OBCC Spirit of Caring Award, Big Sisters of King County Professional Leadership Award and Seattle Junior League’s 2010 Dorothy Bullitt Award. In 2012 Micki and her husband Bob were named Outstanding Philanthropic Individuals by the Association of Fundraising Professionals.

“I’ve been volunteering since high school, and the ARCS experience is unique. Working with talented women and exceptional young scholars to advance science is immensely rewarding,” says Micki.

The Seattle Chapter is grateful for Micki’s confident leadership, insight and vision, and we are most appreciative of her warmth.
The Seattle Chapter of ARCS Foundation thanks its many donors who made individual gifts between July 1, 2012 and June 30, 2013 (excluding contributions of Named Fellowships and Endowed Named Fellowships who are listed on the following page).

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Thank you!
Named Fellowships are created by donors who understand the difference multi-year awards can make in recruiting and supporting world-class graduate students. These donors have each contributed $17,500 over three years to fund and name a Fellowship. A Named Fellowship also provides a donor with a unique opportunity to engage with an individual scholar and to support his or her research.

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Stable, sustained financial support for our graduate students is the goal of the Seattle Chapter of ARCS Foundation. By creating an Endowed Named Fellowship with a gift of $100,000 or more, a donor supports new graduate student Fellowships in perpetuity at the UW or WSU.

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