ARCS

Achievement Rewards for College Scientists

Aeronautics & Astronautics • Applied Mathematics • Aquatic & Fishery Sciences • Astronomy • Atmospheric Sciences • Biology • 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

2012
“Science is a way of thinking, much more than it is a body of knowledge.”
— Carl Sagan

Contents

Thoughts from the Presidents ......................... 1
Seattle Chapter: Success by the Numbers ....... 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

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.

2012-2013 ARCS Seattle Chapter Officers

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“Thank you to our remarkable ARCS Foundation donors whose generosity assures that talented PhD candidates are recruited to nationally-acclaimed departments at the UW and WSU. Your investments advance scientific careers, contribute to our state’s vibrant intellectual community, stimulate our economy with innovative research and increase our nation’s scientific and technological capacity.”

JACQUE DOANE — President, Seattle Chapter ARCS Foundation

“In the UW’s pursuit of solutions to this century’s greatest challenges, the ARCS Seattle Chapter remains one of our most generous and highly-valued partners. We deeply appreciate their support and the wonderful fellowships that enable us to recruit the exceptional talent and future scientific leaders who give our nation a competitive edge.”

MICHAEL K. YOUNG — President, University of Washington

“Thanks to the advocacy and generous support by the Seattle Chapter of ARCS Foundation, many promising and talented students have been empowered to pursue their graduate ambitions at Washington State University, and we have made progress toward broadening the overall global reach and impact of WSU’s top doctoral programs.”

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, a group of over 1,500 visionary women in 17 chapters around the United States who encourage the worldwide advancement of science and technology by funding scholar awards for undergraduate and graduate students in the areas of science, engineering and medical research.

Motivated by a unique combination of social consciousness, intellectual curiosity and generosity, ARCS Foundation has awarded nearly $82.8 million in awards to 14,188 scholars at 55 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 University of Washington community for 34 years and Washington State University for over 12 years; the chapter’s annual funding of scholars has grown from $1000 in the first year to over $737,500 in 2012.

A matching fund strategy to create endowments to fund ARCS Fellowships was initiated in 1990. Since then, generous donors to the Seattle Chapter have utilized matching funds from the UW and WSU to create 27 endowments of more than $100,000 each. Through these Endowed Fellowships, a donor can support ARCS scholar awards in perpetuity.
Please join the Seattle Chapter in supporting the scientific communities at our state’s esteemed universities with a gift to ARCS Foundation. Your gift will support our nation’s top science and engineering graduate students, 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 AN ARCS FOUNDATION FELLOWSHIP** $17,500
Funds one scholar’s three-year Fellowship.

**ENDOW AN ARCS FOUNDATION FELLOWSHIP** $100,000
Funds one 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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<td>Sarah Roberts</td>
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### Second Year Fellows

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<td>Michael Guoyend</td>
<td>Marcia McInerney Lewis &amp; Robert D. Lewis, M.D.</td>
<td>Environmental Health</td>
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<td>Anna Engstrom</td>
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<td>John Loe</td>
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<td>Betty Bottrler</td>
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"An ARCS Fellowship can be pivotal in securing an acceptance from those talented graduate students who lift the quality of everyone around them. We are extremely thankful for ARCS!"

— Paul Hopkins, Professor and Chair, Chemistry, University Of Washington
THIRD YEAR FELLOWS

NAME  DONOR  FIELD OF STUDY
Maria Agapova  The Barbo Family  Pharmacy
Eric Alcid  Washington Research Foundation Fellowship in honor of Calvert Knudsen and Julia Lee
Carolyn Auchter  Elna & Chad Alward in honor of Elva, Chapman Alward III
Lara Backman  Jill & William Ruckelshaus
Heather Barnett  Margaret Breen & Stewart Landefeld
Bridget Bertoni  Washington Research Foundation
Chloe Biscia  Lee & Mike Brown
Peter Caday  The Walker Family ARCS Endowment
Allison Föhrer  Lynn Pigott Mowe in honor of Yvonne Pigott
Daine Gonzalez  Zeverbergen Capital Investments LLC
Frances Hocutt  Washington Research Foundation
Michael Karcher  Zeverbergen Capital Investments LLC
Akash Kumar  Vicki & Gary Glant ARCS Endowment
Carolyn Auchter  Eleanor & Charlie Nolan
Lara Backman  Anne Simpson & Charlie Conner with Kathy & Brooks Simpson
Kathy & Brooks Simpson

FORTH YEAR FELLOWS

NAME  DONOR  FIELD OF STUDY
Laurel Peelle  Camille & Jim Uhrich ARCS Endowment  Forest Resources

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
- Statistics

COLLEGE OF ENGINEERING
- Aeronautics & Astronautics
- 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
- 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
Physics is considered the most fundamental of the natural sciences. For more than 80 years, graduate scholars in the Physics Department at the University of Washington have used highly sophisticated experimental and mathematical theories and techniques to study the physical world and how it behaves.

The UW Physics Department is highly rated at the national level and is recognized for the breadth and depth of its program. Sixteen distinct research specialties are pursued, ranging from astrophysics to quantum information and physics education research. Faculty honors include one Nobel Laureate and nine members of the National Academy of Sciences.

Each year the program receives numerous applications from brilliant scholars competing for 25 openings. In the largely male-dominated field of physics, the lack of women physicists is a national crisis. However, with the support of the Seattle Chapter of ARCS Foundation, the tide is changing. In 2010, two of the country’s brightest female doctoral physics scholars were women who were recruited to the University of Washington through the benefit of an ARCS Fellowship.
Developing effective health promotion tools for immigrant populations is a challenge that Sharon McRae wants to resolve. Her ethno-geriatric research focuses on healthy aging in older female immigrants from African countries. The recipient of an ARCS Foundation Fellowship funded by Anne Simpson and Charlie Conner, Sharon is pursuing a PhD in nursing at the University of Washington.

Why focus on females? “In many African subcultures,” explains Sharon, “the woman is the center of the family. Women lead and families follow. If we can capture their understanding of health and aging in the context of their immigrant experience, we can create effective health promotion tools.”

Sharon came to the United States from the Republic of Trinidad and Tobago as a child, so she has deep personal experience to draw from. She has worked with aging immigrants as a critical care nurse and nurse practitioner, and concludes that many of the issues she has treated could have been minimized or avoided altogether with the right information and tools.

Sharon’s research seeks to understand what healthy aging means for women from a number of African subcultures. She can then develop effective tools to help them — along with their families — live healthier, longer lives.

“ARCS Foundation is the reason I’m in school at all right now,” she says. “It’s that simple.”
“There’s increased interest in science in our country,” says Lex Lindsey. “People are aware that we need to focus on science education so we don’t fall behind like we did in the 1950s prior to Sputnik.”

Lex is referring to the Soviet satellite that launched an era of space exploration—and sparked the creation of ARCS Foundation in 1958. Lex holds an MS in physics from the UW, and shares a keen interest in science with his wife, Lynn Manley, who minored in chemistry at WSU. Through their family’s Chisholm Foundation, they are currently funding an ARCS Endowed Fellowship for Michael Tremmel, who is in his first year pursuing a PhD in astronomy at UW.

Michael’s research involves analyzing computer simulations of galaxies and galaxy clusters to understand the physical processes involved in their formation and evolution. He acknowledges — and appreciates — that there’s currently no direct practical application for his research. “Science, at its core, should be motivated by a search for truth,” he says. “There’s something intrinsically beautiful about understanding the universe for its own sake.”

Lynn and Lex enjoy their inside look at the work being done by Michael and other ARCS Foundation scholars. “We’re overwhelmed by the dedication of the students we’ve sponsored,” says Lynn.” And we’re so proud that we’ve had some small hand in their achievements.”
“Patty is incredibly supportive in ways that go far beyond the financial,” says Nicki Wise. “She believes in me. I want her to be proud of everything I do, just like my parents.”

Nicki is in her third year of WSU’s veterinary science program, and she clearly thinks the world of Patty Barrier, who sponsored her ARCS Foundation Endowed Fellowship. The feeling is mutual. “Nicki has enriched my life. I am blessed to know her,” says Patty.

The two share a deep love of animals, and that bond was strengthened when Patty arranged for several rescue puppies to obtain lifesaving surgery at WSU’s veterinary hospital. Nicki worked around her own busy schedule to manage the puppies’ care. “She did everything for them,” says Patty. “She was amazingly generous with her time.”

Nicki’s commitment to animal care is reflected in her work, as she searches for a way to disarm a parasite that causes a dangerous disease in horses. “Right now, we can only control the transmission,” says Nicki. “We need to take a step back and work on a way to stop the infection from happening at all — or cure it once it starts.”

Both women are confident that their relationship will continue. “We’ve become dear friends,” says Nicki, and Patty concurs. “I know we’ll stay connected for years to come.”
### FIRST YEAR FELLOWS

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<td>Lindsay Fry</td>
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"ARCS Foundation helps insure that top students in STEM disciplines come to the State of Washington for their graduate work. This contribution facilitates the high-impact achievements being made at our universities."

— Dr. Nancy Magnuson, Interim Vice President for Research, Dean of the Graduate School, Washington State University
The Department of Veterinary Microbiology and Pathology is a cohesive research and teaching unit that also provides diagnostic services through the Washington Animal Disease Diagnostic Laboratory. It is recognized nationally for the high quality and impact of its work.

The department’s research focus is infectious diseases of animals: the hosts, the agents, the interaction of host and agent, and the animal-human interface. Faculty, in concert with graduate students, are engaged in research to control diseases of international importance. The outcomes of their research benefit both animals and humans and are published in top-tier, refereed scientific journals. The faculty forms a strong interdisciplinary group and works in collaboration with the USDA-ARS-Animal Disease Research Unit, the Washington Animal Disease Diagnostic Laboratory and the Paul G. Allen School for Global Animal Health.

The department also takes pride in its award-winning and innovative approaches to teaching veterinary students. Graduate programs are designed to educate the next generation of scientists, and many department graduates currently hold prominent positions in academia.
As the world’s population continues to expand, experts are sounding the alarm about a potential global food crisis. Scientists are considering many solutions to help avert such a catastrophe — and Ryan Boyd is working on one of them: the potential to enhance crop yields by increasing the efficiency of photosynthesis in certain types of plants.

In his third year of an ARCS Foundation Fellowship at Washington State University donated by Zan Brookshire and the Brookshire-Green Foundation, Ryan is pursuing a PhD in molecular plant science. He is looking at a key plant enzyme that captures carbon dioxide and transforms it into usable plant energy, and how changes in amino acid residues within that enzyme can alter the speed of that reaction. As a result of this important research, food crops such as rice, soybeans and wheat could someday require less water and fertilizer to produce larger yields.

When looking for a graduate school, Ryan explains, “WSU had a strong pull, but I knew it was going to be my last structured educational experience and that thought weighed heavily while I was making my decision.” What helped tip the balance in WSU’s favor? “The funding from ARCS Foundation,” he confirms. “It makes finances one less thing to worry about and allows me to focus on my education and research.”
In Their Own Words

**UW FELLOW** Michael Duyzend  
**DEPARTMENT** Molecular Plant Science  
**DONOR** Seattle Chapter in Honor of Sandy Carlson

“ARCS Foundation has provided me with a community that embraces excellence in research, big ideas and collaboration. I hope that someday, given the opportunity, I can bestow the same gift on another as they have given me.”

**WSU FELLOW** Erik Landry  
**DEPARTMENT** MD/PhD Genome Sciences  
**DONOR** Marcia and Robert Lewis

“As a recipient of an ARCS Fellowship I feel a part of something bigger. Across the country ARCS members continue to look to the future and invest in it. This impact goes far beyond myself and I feel honored to be an ARCS Fellow.”

**WSU FELLOW** Sierra Beecher  
**DEPARTMENT** Crop & Soil Sciences  
**DONOR** Catherine Mee

“The ARCS Foundation Fellowship made the decision between an academic research career and a job in industry much easier.”

**UW FELLOW** Jacob Kotas  
**DEPARTMENT** Applied Mathematics  
**DONOR** Washington Research Foundation

“The benefits of being an ARCS Fellow go well beyond the monetary. I feel doubly committed to my scientific progress. This translates into a deeper engagement with my scientific endeavors, a higher level of satisfaction with my work and more meaningful scientific results.”
A principal scientist at Adobe Systems in Seattle, Dan Goldman believes in ARCS. “It’s critical to have an independent, non-governmental organization devoted to the advancement of science,” he comments. “ARCS Foundation helps show the community the value of the important work being done by scientists.”

Dan speaks from experience. An ARCS Foundation Fellowship helped fund his pursuit of a PhD in computer science and engineering at the University of Washington in the early 2000s. His thesis focused on tools for working with video, and that’s “still a lot of my work today,” he says.

Dan is currently part of an Adobe Systems research group — a worldwide network of interns, graduate students and faculty — aiming to revolutionize how the world engages with images and video. “Digital images are becoming a larger and larger part of our lives,” he notes, “and a high level of expertise is needed to manipulate those images well. We want to lower the bar.”

Dan worked as a computer graphics artist and engineer before deciding to pursue his PhD and remains tremendously grateful for his ARCS Foundation funding. “It softened the blow of leaving a real job and becoming a student again,” he says. “ARCS helped make it possible for me to be where I am today.”
Microsoft is committed to helping youth and young adults around the world obtain the skills they need and connect to opportunities to pursue their dreams; that commitment is reflected in the company’s longtime support of ARCS Foundation and its mission.

Microsoft has funded several ARCS Foundation Fellowships; one of them was given by Bill Gates, Sr. in honor of his daughter-in-law Melinda Gates when she spoke at the Seattle Chapter’s annual luncheon in 1998. The company has provided key elements for ARCS programming, which has featured Microsoft speakers and site tours. The benefits of the alliance are reciprocal, with several ARCS Fellows going on to become Microsoft employees after earning their PhDs. Most recently, Microsoft provided key corporate support for both the 2011 and 2012 Annual ARCS Luncheons.

Through its work with organizations like ARCS Foundation, Microsoft hopes to lessen what it calls “the opportunity divide,” especially as it exists for young people. In support of its ongoing commitment to education and learning, the company actively supports programs that empower youth to imagine and realize their potential, and move from opportunity imagined to opportunity realized.

“Our involvement with the Seattle Chapter of ARCS Foundation furthers our commitment to help exceptional students reach their full potential,” says Jane Broom, Community Affairs Director, Microsoft Corporation.

The Seattle Chapter of ARCS Foundation is proud to name Susan Potts the 2012 recipient of its annual ARCS “Light” Award, chosen to honor members who have made significant contributions to the chapter.

A member since 1998, Susan has served as Chapter President, Director of Nominations (twice), Director of Long-Range Planning and on national ARCS Foundation committees.

Susan has also shared her talents with numerous non-profits, including the University of Washington Foundation, Seattle Children’s Museum, Intiman Theatre, Seattle Arts and Lectures, YMCA, King County Library System and KUOW Public Radio. She has been a planning commissioner, city council member and mayor of Medina, WA.

“I love ARCS because it has enabled me to get to know remarkable women, learn about science and feel that I am helping make our top two universities even better.”

Susan’s creativity and strategic thinking will have a long-lasting impact on the Seattle Chapter.
INDIVIDUAL GIFTS

The Seattle Chapter of ARCS Foundation thanks its many donors who made individual gifts between July 1, 2011 and June 30, 2012, or who are supporting Fellowships or Endowments during the 2012-2013 academic year. Your generous contributions allow the University of Washington and Washington State University to recruit and support the most outstanding science graduate students, and we thank you!

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<tr>
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<td>Eve &amp; Chap Alvord (11th)</td>
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<td>The Stevens Family (3rd)</td>
<td>Marlene &amp; John Durbin (4th)</td>
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<td>Lynn &amp; Mikal Thomson (7th – 11th)</td>
<td>Jana &amp; Jeff Foushee</td>
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<td>Marlene &amp; John Durbin (4th)</td>
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<td>Jana &amp; Jeff Foushee</td>
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<td>University of Washington Nursing Recognition Fellowship – Dean Maria Salmon</td>
<td>Marlene &amp; John Durbin (4th)</td>
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<td>Washington Research Foundation (76th – 84th)</td>
<td>Jana &amp; Jeff Foushee</td>
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<td>Washington Research Foundation in Honor of Calvert Knudsen and Julia Lee</td>
<td>Marlene &amp; John Durbin (4th)</td>
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<td>Washington State University Graduate School</td>
<td>Jana &amp; Jeff Foushee</td>
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<td>Washington State University President’s Award</td>
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<td>Zevenbergen Capital Investments LLC (11th – 14th)</td>
<td>Marlene &amp; John Durbin (4th)</td>
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We are pleased to acknowledge our generous donors who have already established Fellowships for the 2013-2014 academic year.

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<td>Eve &amp; Chap Alvord (12th)</td>
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<td>Washington State University Graduate School</td>
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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.

Thanks to the extraordinary generosity of the donors listed below, the Seattle Chapter has established 27 Endowed Named Fellowships since 1990. Most of these generous donors have benefited from State of Washington matching funds provided through the University of Washington or Washington State University.

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<td>Washington State University President’s Award</td>
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<td>Washington Research Foundation Foundation (76th – 84th)</td>
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