Dorothy L. Simpson Seattle Chapter ARCS Foundation Leadership Award

Established in 2018, the Dorothy Lewis Simpson (1924-2018) award recognizes an ARCS Fellow with exceptional leadership, intellectual curiosity, and dedication to the greater good. We proudly name Rachel Shaffer as the 2019 Dorothy L. Simpson Leadership Award winner.

Rachel graduated Magna Cum Laude from Yale University in 2012 earning a BA in Environmental Studies/Environmental Health. In June 2018, she earned her master’s degree in Public Health at the UW. Soon after, the UW School of Public Health recruited her as an ARCS Fellow. Rachel expects to graduate with a PhD in Environmental Toxicology in June of 2020.

Rachel’s passion is understanding environmental exposure health effects and using that insight to promote public health. Her award-winning UW publications earned praise for her commitment to advancing scientific understanding and developing innovations. She mentors other STEM scientists while holding leadership roles with the Pacific Science Center, Public Comment Project and Beacon Hill Environmental Health Project. She is dedicated to promoting public and community health.

Congratulations, Rachel!
Individual Gifts

The Seattle Chapter ARCS Foundation thanks its many donors who made individual gifts between July 1, 2018 and June 30, 2019 (excluding contributions of Named Endowments and Named Fellowships, listed on the preceding page).

THANK YOU
Thoughts from the Presidents

“ARCS members are dedicated to advancing science in America. In the last 41 years ARCS Foundation Seattle Chapter has supported over 1300 brilliant scientists as they work to solve problems, drive innovation and change the world. Through our unique award model and partnerships with the region’s top research institutions, ARCS is keeping the United States scientifically competitive by providing unrestricted financial awards to academically outstanding students pursuing their PhDs in science, engineering and medical research. Thank you for your support!”

SARAH WATTS — President, ARCS Foundation Seattle Chapter

“Support from ARCS Foundation empowers UW graduate students in their search for interdisciplinary solutions to our most urgent problems. ARCS Foundation has been a steadfast partner with the UW for more than 40 years as we attract the most promising graduate students in STEM fields.”

ANA MARI CAUCE — President, University of Washington

“Washington State University continues to be deeply grateful to the ARCS Foundation Seattle Chapter for its ongoing support of our talented doctoral students. As our scholars attest, the support of ARCS is life-changing for them in many ways, allowing them to focus on research that can impact the world. We appreciate the ARCS Foundation’s commitment to supporting the advancement of science through graduate education and are pleased to partner with them in this very worthy endeavor.”

KIRK H. SCHULZ — President, Washington State University
Advancing Science Through Discovery and Innovation

As an organization founded and run entirely by women, ARCS Foundation members boost American leadership and aid advancement in science and technology. For over 40 years, Seattle Chapter ARCS Foundation Fellowships have created a strategic recruiting advantage for approved graduate departments at University of Washington and Washington State University. ARCS fellows are a cohort of highly capable individuals who help to build vibrant academic communities where teamwork and creativity flourish. ARCS alumni go on to accept jobs in high-profile organizations and positions in academia around the world. Each Fellowship is an investment in driving positive change in our world. Your gift to ARCS Foundation is a direct and confident philanthropic investment in the future of science, engineering and medical research.

Nationwide, ARCS Foundation, Inc. partners with 51 premier US Universities to provide financial awards to outstanding US citizens pursuing degrees in science, technology, engineering and mathematics. It is ARCS Foundation’s belief that support of STEM education is essential to US economic growth and technological competitiveness and will help to ensure continued US leadership in global innovation, health and quality of life.
Scholars may use their awards to fund research materials, conference participation, collaborative research pursuits over and above their core projects — even basic living expenses. ARCS Scholars are selected annually by qualifying departments at the University of Washington and Washington State University; applications are not accepted. To be eligible, a Scholar must be a United States citizen enrolled in a full-time degree program, majoring in fields of science, engineering or medical research; and have a GPA of 3.5 or higher.

An ARCS Fellowship is a prestigious recognition of outstanding academic achievement that provides unrestricted funding allowing students to think less about finances and more about their research.

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**FUNDING THE MISSION DONATION ANY AMOUNT**
Your gift, in any amount, supports ARCS’ mission. Each year the Seattle Chapter uses these donations to fund more than 10 individual Seattle Chapter Fellowship Awards.

**NAMED FELLOWSHIP**
Funds one three-year Named Fellowship.

**NAMED ENDOWMENT**
Funds one Named Endowment in perpetuity. Matching opportunities may be available through ARCS Foundation Seattle Chapter and the generosity of the UW and WSU.

**CORPORATE SPONSORSHIP**
FROM $2,500
We are fortunate to have great partnerships with local businesses and organizations. Various sponsorship and recognition opportunities are available.

**ARCS FOUNDATION SEATTLE CHAPTER PLANNED GIVING**
Consider the opportunity to leave a legacy. To learn how to remember us in your wills and trusts, please contact us at information@seattlearcsfoundation.org.
“If it wasn’t for ARCS, I may have gone elsewhere,” says third-year ARCS Fellow Nancy Carmona. She explains, “I was offered competitive funding at a university where the cost of living was much lower—but the additional award from ARCS helped level the playing field. The ARCS Award helps me live in an expensive city without worrying too much about expenses.”

“It’s no secret that Seattle is an expensive city for grad students,” comments Dr. David Perkel, chair of the UW biology department. “ARCS makes that less scary, money-wise, but there’s a lot more to the awards than finances.”

He elaborates, “ARCS Fellows who come here are often far away from friends and family. Engaging with their donors allows them to have an enriched experience. It’s intangible and hard to describe to incoming graduate students, but experienced Fellows really appreciate it.”

“That’s the dual value of ARCS,” says David. “It helps us recruit the best people and get them off the fence when they’re also considering top schools like Berkeley, Stanford and MIT—and, once they’re here, it helps them get integrated.”

David envisions a future with more department faculty members helping with ARCS fundraisers, suggesting, “We can offer otherwise unobtainable experiences—like an afternoon studying the human brain, opportunities to see the research up close or visit a field site—things you just can’t get anywhere else.” And why does David want to give back to ARCS? “Because,” he says, “The caliber of ARCS Fellows is amazing, and we want to help support their work. ARCS is important, we value it a ton, and we want to contribute.”
There are some Seattle residents who may literally breathe easier because Nancy chose their city to earn her PhD in environmental and occupational hygiene. Through her “Community Air Monitoring in Puget Sound” study, Nancy is harnessing civic engagement to empower community members to advocate for and learn more about environmental health.

Nancy surveyed local child care centers, community clubs and senior centers about air quality concerns that weren’t being addressed by regulatory agencies. She placed survey respondents on a steering committee; members helped determine the locations of 12 air quality monitors, which collected data over two seasons.

When Nancy has finished sorting that data, she’ll share it with the stakeholders and help determine next steps, such as exploring policy change to improve air quality or utilizing behavioral modifications to reduce the impact of poor air quality. Easier breathing indeed!

— Mark Richards  
Provost, University of Washington
Thanks to his ARCS Fellowship, Robert Orpet “had the luxury of being able to explore an offbeat topic that’s now making a difference for orchardists,” says Dr. Laura Lavine, chair of the WSU Department of Entomology. From 2014 to 2018, Robert studied the role of earwigs in apple orchards and discovered that, although they’re perceived as pests, they’re actually beneficial because they eat aphids—and, unlike many other insects, they don’t damage apples.

With his ARCS award, Robert was able to expand his project to include a survey to gain understanding of orchardists’ perception of earwigs, as well as follow-up education when his research was complete. “His work was published in an industry magazine and orchardists are now looking at increasing the earwigs in their orchards,” says Laura.

She feels strongly that ARCS helps attract top-caliber students like Robert. “We’re not a destination location, our department is small and we compete for a small pool of applicants,” she comments. “ARCS gives us the extra boost we need.”

“And,” she points out, “it’s about more than the funding—it’s also about being part of the ARCS community. The Fellows love being part of the cohort; they feel like a part of something bigger.” She adds, “Meeting and being inspired by other scholars from around the state makes them even prouder to be ARCS Fellows.”

Lyme disease is the most common vector-borne disease in the US, resulting in an estimated 300,000 cases every year. If not quickly diagnosed and treated, the disease can progress and become chronic, leading to an array of health problems in both humans and companion animals such as dogs and horses. Ticks transmit the infection, but exactly how the bacteria
adapt to the mammalian tissues isn’t well understood. Third-year ARCS Fellow Kelly Ramsay is working to change that, with the “dream goal” of contributing to a vaccine or preventive medication for Lyme disease.

This is clearly work with the potential for a great deal of impact. And, thanks to ARCS, she’s able to put her energy into the things that matter for her success. “I was already excited about WSU—it was a top choice,” she says. “Knowing I was getting the ARCS award made a difference financially and also helped me feel valued.”

She explains, “I’d been worried about needing to put the rest of my life on hold while I was in graduate school, but the ARCS award makes it possible for me to actually live my life at the same time.” For Kelly, that means she could pay for an emergency appendectomy last year, celebrate at her wedding and stay current on her student loans from vet school—all while maintaining focus on her important work.

Our doctoral students at WSU are at the forefront of research and academic excellence. They inspire and empower our faculty. Their teaching and innovation propel our land grant mission forward and they play a critical role in helping us solve challenges facing our state, our nation and the world. We truly appreciate the support of the Seattle Chapter ARCS Foundation, which helps WSU compete for excellent students and ARCS contributes greatly to their educational experience.

— Bryan Slinker
Interim Provost and Executive Vice President,
Washington State University

Washington State University Fellowship Support Areas

ARCS Foundation Seattle Chapter currently supports WSU students in the following departments and schools:

**COLLEGE OF AGRICULTURAL, HUMAN, AND NATURAL RESOURCE SCIENCES**
- Animal Sciences
- Crop & Soil Sciences
- Entomology
- Molecular Plant Sciences
- Plant Pathology

**COLLEGE OF ARTS AND SCIENCES**
- Chemistry

**COLLEGE OF ENGINEERING AND ARCHITECTURE**
- Chemical Engineering & Bioengineering

**COLLEGE OF VETERINARY MEDICINE**
- Global Animal Health (GAH)
- Molecular Biosciences
- Integrative Physiology & Neuroscience
- Veterinary Clinical Sciences
- Veterinary Microbiology & Pathology
Endowments

Since 1978, Seattle Chapter ARCS Foundation’s primary mission has been to provide sustained financial support for our graduate fellows at the University of Washington and Washington State University. A Named Endowment gift of $100,000 or more will compound your investment in advancing opportunities for graduate students. Earnings from Named Endowments will support new graduate Fellowships in perpetuity.

Seattle Chapter ARCS Foundation gratefully thanks the donors of our 54 Named Endowments. From our first, given by the Stroum Charitable Trust in 1990, to our most recent donors, our total Endowment assets now top $11,600,000.

Named Fellowships

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 each contribute $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 individual ARCS Foundation Fellows and to support their research.

Eve & Chap Alvord (20th)
Eve & Chap Alvord in honor of Nancy Alvord
Karyl & Elias Alvord (2nd & 3rd)
Laura & Bruce Bailey
Les Barrier (6th)
Ann & Bruce Blume (2nd)
Brookshire-Green Foundation (5th)
Jacque & Rick Doane (4th)
Mary Dunnam (5th)
David & Kathleen Eaton (2nd)
Laurie & John Fairman
Kathy Fraser with Gaily & David Wright (2nd)
Kathleen & Richard Gary
Debbie Girdler & Dave Cutler (2nd)
Elizabeth & Lester Gunther Legacy
Cheryl & David Hailey (3rd)
Allison & Steve Harr
Hussey Family (3rd)
Beverly & Donald Jefferson
Stephanie Jones Memorial (4th)
Terry Keegan Memorial (2nd)
Barbara & Judd Kirk (4th) with Alice & Ernie Weymuller
XMU UW School of Nursing
Kulakala Point Foundation
Alida & Christopher Latham (3rd)
Kitti & Bill Lile with Missy & Kurt Zumwalt
Catherine Man (4th)
Laura & David Midgley
Wiley S. Montgomery (11th)
Harriet & John Morton (3rd)
Tina Neiders in honor of Nancy Alvord
Connie Niva (2nd)
Sarah Pendleton and Elisabeth Carey Miller Charitable Foundation (7th)
Gail & Larry Ransom
Judy & Floyd Rogers
Amy & Matt Rudolf (2nd)
Seattle Chapter ARCS in honor of Jennifer Huck Arnold
Seattle Chapter ARCS in honor of Connie Kravas
Seattle Chapter ARCS Light in honor of Lynn Manley
Seattle Chapter ARCS Light in honor of Nancy Mee
Seattle Chapter ARCS Light in honor of Andrea Thoresan
Kathleen & Brooks Simpson (3rd)
David & Catherine Eaton Skinner (6th)
Mani Stammer Legacy
Bob & Lynn Taylor (2nd) with MA & Bruce Sengler
Lynn & Mikhail Thomsen (17th)
University of Washington Graduate School Diversity (11th-16th)
Jean B. Viereck (6th)
Valerie Voss & John Houshian with ARCS Foundation Seattle Chapter
Sarah & Andrew Watts (2nd)
Debbie & John Wilson with Jenny & Scott Wyatt (3rd)
Washington Research Foundation (101st-116th)
Washington State University President’s Award (2nd)
Washington State University Graduate School Deans Award (2nd)
Carol Wright (2nd)
Zevenbergen Capital Investments LLC (22nd-28th)

(Vick & Gary Dulant (8th & 9th)
Ruth & William F. Gerberding (10th & 11th)
Vicki J. Thomas & Marj Neild (8th & 9th)
Mark A. Jones in Chemistry (2nd & 4th)
Kristin N. Kenefick
Kristin N. Kenefick & Nancy P. Norberg (2nd)
Oceanus (6th & 7th)
Oceana (6th & 7th)
Candace Rosenberg Peterson (13th & 14th)
Bill & Susan Potts
Oliver W. Press (1st)
Jim & Trish Rogers (6th)
Dorothy Lewis Simpson (16th & 17th)
Charles & Delphine Stevens Family
George & Caryl Steiner (9th)
Althea Stroum, (27th – 31st)
Julie Tall (5th & 6th)
Lynn & Mikal Thomsen (17th)
Kitti & Bill Lile with Missy & Kurt Zumwalt
Catherine Man (4th)
Laura & David Midgley
Wiley S. Montgomery (11th)
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(Denotes the number of ARCS Foundation Fellowships the donor has funded.)

[Names and amounts of donors and endowments listed in the text放入表格中。]

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