



ARCS

Achievement Rewards for College Scientists

> Fostering Discovery and Innovation in Washington

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

Kelly Carpenter
ARCS Fellow, UW
Chemical Engineering

Contents

Thoughts from the Presidents 1

ARCS Foundation Seattle — Fostering
Discovery and Innovation in Washington ... 2

Planned Giving 3

University of Washington 4 - 8

Washington State University 9 - 12

In Their Own Words 13

Where Are They Now? 14

ARCS Light Award, ARCS Members 15

Donors 16 - 17

Corporate Donor and Sponsors back cover

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

2017-2018 ARCS Foundation, Seattle Board of Directors

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Thoughts from the Presidents



“ARCS Foundation Seattle Chapter attracts America’s best young scientists to our state’s preeminent research institutions. We advance innovative research, which in turn helps fuel our local economy. With your support, ARCS Foundation gives our Fellows the confidence and freedom to pursue the next big discovery and solve some of the most critical problems facing our planet. Thank you for joining us in changing the future!”

AMY RUDOLF — President, Seattle Chapter ARCS Foundation



“The University of Washington is deeply grateful to the ARCS Foundation for enabling talented Ph.D. students in science, engineering and medical research to focus on their scholarship instead of their finances through its generous fellowships. These diverse scholars are already improving lives through pioneering research—thanks to the ARCS Foundation’s commitment to graduate education, they’ll have a chance to truly change the world.”

ANA MARI CAUCE — President, University of Washington



“Solving global challenges and advancing the greater good require an informed vision and unyielding commitment. We are extremely fortunate to share that vision with our ARCS Foundation colleagues and benefit from their incredible generosity that supports the next generation of scientists. The impact of ARCS is immeasurable, as is our gratitude.”

KIRK H. SCHULZ — President, Washington State University

ARCS Foundation Seattle – Fostering Discovery and Innovation in Washington

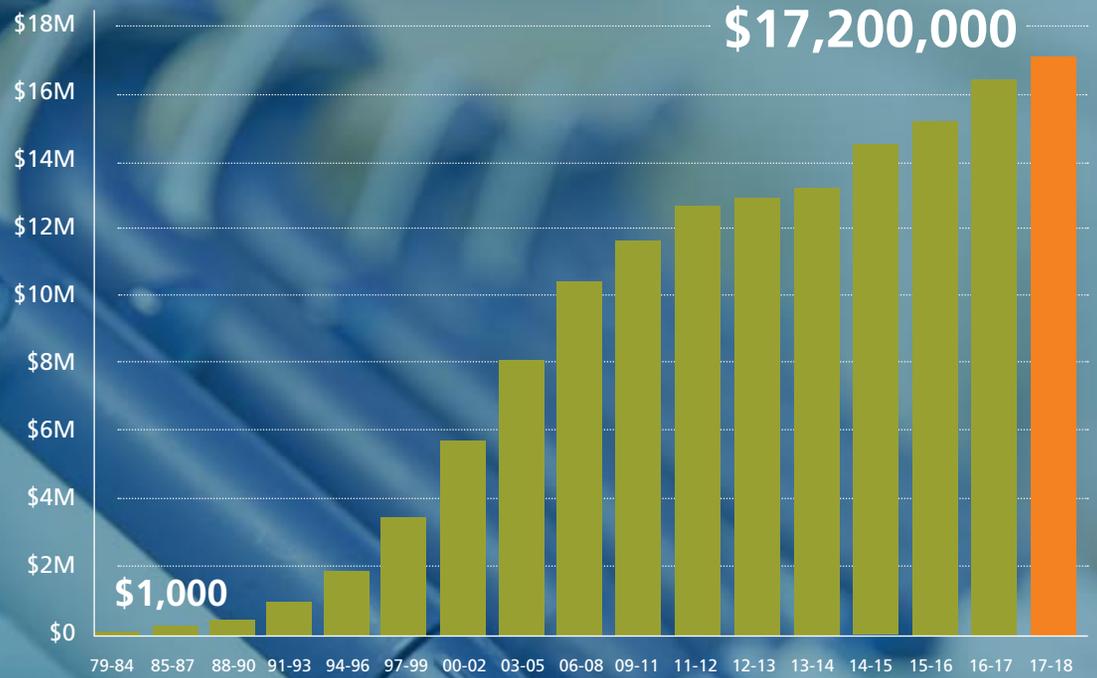
ARCS Foundation Seattle Chapter Fellowships give our universities a critical competitive edge in recruiting top graduate students. These highly capable individuals are catalysts who help build vibrant academic communities where teamwork, visionary insights, and creativity flourish. The contributions of ARCS Foundation alumni employed in high profile organizations around the state and country testify to the vitality and value of ARCS Foundation’s mission.

Seattle Chapter success by the numbers:

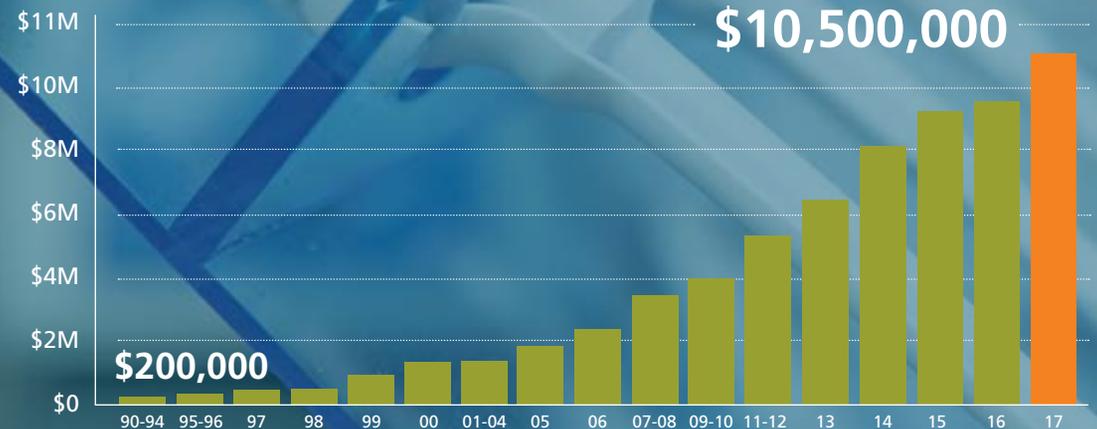
- Founded in 1978, is one of 15 ARCS chapters nationwide
- To date has supported over 1,200 fellows with awards totaling over \$17.2 million
- This year supports 157 fellows with awards in excess of \$920,000
- Currently there are 51 ARCS Foundation Seattle Named Endowments with over \$10.5M in assets supporting fellowships in perpetuity
- Funds 36 departments at UW and 12 at WSU
- Third largest annual foundation donor to the UW
- Honored as a Presidential Laureate by UW
- Awarded Silver Laureate Status by WSU

ARCS Foundation supports the power of scientific and technological education in driving positive change in our world. Nationwide, ARCS Foundation, Inc. partners with 51 premier US universities to provide financial awards to academically outstanding US citizens pursuing degrees in science, technology, engineering and mathematics (STEM). Our dedicated and hardworking members are committed to fostering the success of these truly amazing individuals, our next generation of scientific leaders and innovators.

Seattle Chapter Cumulative Giving (FY 2017-2018)



Seattle Chapter Endowments (FY 2017) Growing a Strong Future for Science



PLANNED GIFT
Carlyn Steiner

ARCS Foundation Fellowships provide unrestricted funding that allows students to think less about finances and more about their education and research. By supporting ARCS Foundation you impact students, their research, the universities, and our scientific future.

ARCS FOUNDATION SEATTLE CHAPTER NAMED FELLOWSHIP \$17,500
Funds one three-year Named Fellowship.

ARCS FOUNDATION SEATTLE ENDOWMENT \$100,000
Funds one Named Endowment in perpetuity. Currently matching opportunities are available through the generosity of University of Washington and Washington State University.

ARCS FOUNDATION SEATTLE CHAPTER CORPORATE SPONSORSHIPS \$2,500 or more
We are fortunate to have great partnerships with local businesses and organizations. Various sponsorship levels and recognition opportunities are available.

ARCS FOUNDATION SEATTLE PLANNED GIVING
Consider the opportunity to leave a legacy. For information on how to remember us in your wills and trusts, please contact us at information@seattlearcsfoundation.org.

In addition to the above named funding opportunities, each year the Seattle Chapter's collective funding supports a number of fellowships at \$17,500 each. Your gift in any amount goes towards advancing our mission.

To learn more about making a gift, please contact us at:

Seattle Chapter
ARCS Foundation
Private Mailbox 429
4616 25th Avenue NE
Seattle, WA 98105

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



Philanthropy is central to Carlyn Steiner's life. "My family was charitable, and I grew up wanting to support people and causes," she says. "Giving is part of my DNA."

That's why Carlyn created an ARCS Foundation gift—a University of Washington endowment to fund exceptional graduate scholars in science now, and for years to come. It is also the reason she has served in so many roles since joining ARCS in 1990. Her leadership positions have included Seattle Chapter President and membership on both the board and executive committee. She also has held several positions on ARCS Foundation National board, and is currently one of three chairs of the 40th anniversary committee for the Seattle Chapter.

Clearly, the mission of ARCS Foundation has inspired Carlyn to contribute her resources, time, skills, and experience. "I like the people, I like the mission, and I like learning," she says. "That's ARCS, and that's the paradigm for me."

FELLOWS

UNIVERSITY OF WASHINGTON

FIRST-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Michelle Agne	Kulakala Point Foundation	Environmental & Forest Sciences
David Bacsik	William P. and Ruth Gerberding ARCS Endowment	MD/PhD - Genome Sciences
Lindsey Barner	Harriett & John Morton	Mechanical Engineering
Magali Blanco	Carlyn & George Steiner ARCS Endowment	Environmental & Occupational Health Sciences
Eileen Brady	Rosa Ayer ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Jared Canright	Chisholm Foundation ARCS Endowment	Physics
Nancy Carmona	Bill & Melinda Gates Foundation ARCS Endowment	Environmental & Occupational Health Sciences
David Clausen	Brookshire-Green Foundation	Biostatistics
Emily Cliff	Mark A. Jones ARCS Endowment	Chemistry
Anna-Lisa Doebley	Camille & Jim Uhlir ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Jordan Drew	John W. & Elaine A. Zevenbergen, Sr. ARCS Endowment	Electrical Engineering/GO-MAP
Kate Dusenbury	Julie Tall ARCS Endowment	MD/PhD - Genome Sciences
Gabe Erion	Allison & Steve Harr	MD/PhD - Computer Science & Engineering
Saadia Gabriel	Washington Research Foundation	Computer Science & Engineering/GO-MAP
Kimberly Gottschalk	Alicia & Jeff Carnevali in Oceanography Endowment	Oceanography
Michael Henson	Michael & Marti Young Endowment	Applied Mathematics/GO-MAP
Ena Hodzic	Laura & David Midgley	Aeronautics & Astronautics
Liam Hovey	Becky & Jack Benaroya ARCS Endowment	MD/PhD - Pharmacology
Rachel Lee	Doris L. Carnevali in Nursing Science Endowment	Nursing
Jessica Lindsay	Oceanus ARCS Endowment	Aquatic & Fishery Sciences
Ciana Lopez	Jeff and Jana Foushee Family ARCS Endowment	Bioengineering/GO-MAP
Vanessa Montoya	Kathy McQuaid with Sally & David Wright	Molecular & Cellular Biology
Nicholas Nuechterlein	Walker Family ARCS Endowment	Computer Science & Engineering
Gemma O'Connor	Washington Research Foundation	Earth & Space Sciences
Colin Okaski	Zevenbergen Capital Investments LLC	QERM
Jose Pineda	Washington Research Foundation ARCS Endowment	MD/PhD - Genome Sciences/GO-MAP
Nick Popp	Gladys Harrington ARCS Endowment in honor of Eve Alvord	MD/PhD - Genome Sciences
Allen Roberts	Kristin N. Kenefick & Nancy P. Norberg ARCS Endowment	MD/PhD - Epidemiology
Tricia Rodriguez	MAC Consortium ARCS Endowment	Pharmacy
Zandra Rojo	Dean David & Dr. Kathleen Eaton	Materials Science & Engineering/GO-MAP
Anna Schindler	Virginia M. Dickenson Memorial ARCS Endowment	Mathematics
Michelle Shin	Joanne & Bruce Montgomery ARCS Endowment	Nursing
Austin Sun	Gladys Harrington ARCS Endowment in honor of Eve Alvord	Pharmacy (Pharmaceutics)
Brianna Thomas	Micki E. & Robert J. Flowers ARCS Endowment	Astronomy/GO-MAP
Jackson Tonnies	Nancy & John Zevenbergen ARCS Endowment	Biology
Devin Wehle	Barbara & Judd Kirk with Alice & Ernie Weymuller	Neuroscience/GO-MAP
King Yabut	Washington Research Foundation	Pharmacy (Pharmaceutics)/GO-MAP
Shivam Zaver	Keith & Mary Kay McCaw Family Foundation ARCS Endowment	MD/PhD - Microbiology
Ben Zercher	Nicole A. Boand ARCS Endowment	Chemistry
Brian Zimmerman	Carol Wright	Atmospheric Sciences

SECOND-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Sarah Alamdari	UW Graduate School Diversity	Chemical Engineering/GO-MAP
Morelle Arian	Sarah & Andrew Watts	Computer Science & Engineering/GO-MAP
Ethan Campbell	Fairway Fund ARCS Endowment	Oceanography
Ian Cardle	John W. & Elaine A. Zevenbergen, Sr. ARCS Endowment	Bioengineering/GO-MAP
Ryan Creedon	Jill & Rajeev Singh	Applied Mathematics
Samantha De Abreu	Seattle Chapter ARCS in Memory of William P. Gerberding	Environmental & Forest Sciences/GO-MAP
David Diaz	Eleanor & Charles Nolan	Environmental & Forest Sciences/GO-MAP
Karina Diaz	Molly & Blake Nordstrom	MD/PhD - Molecular & Cellular Biology/GO-MAP
Lesly Franco	Mary Dunnam	Environmental & Forest Sciences/GO-MAP
Miles Freeman	Nancy Mee & Dennis Evans	MD/PhD - Molecular & Cellular Biology/GO-MAP
Theodore Gobillot	Hussey Family	MD/PhD - Molecular & Cellular Biology/GO-MAP
Tyler Gordon	Nancy P. & Douglas E. Norberg ARCS Endowment	Astronomy
Ryan Groussman	Margery S. Friedlander ARCS Endowment	Oceanography
Eli Grunblatt	Jim & Nancy Woods	MD/PhD - Molecular & Cellular Biology
Nicholas Hasle	Dooley-Short ARCS Endowment	MD/PhD - Genome Sciences
Jamie Hernandez	Vicki J. & Thomas W. Griffin in Honor of Paige & Griffin Thoreson ARCS Endowment	Bioengineering
Kristian Holmes	Washington Research Foundation	Molecular & Cellular Biology
Aaron Hudson	Washington Research Foundation	Biostatistics/GO-MAP
Kathryn Kistler	Tina Neiders & Andrea Thoreson	Molecular & Cellular Biology
Danny Lawrence	Zevenbergen Capital Investments LLC	MD/PhD - Genome Sciences
Amy Li	Chisholm Foundation ARCS Endowment	Pharmacy
Amarise Little	Washington Research Foundation	Biostatistics/GO-MAP
Gui Liu	George & Carlyn Steiner ARCS Endowment	Epidemiology
Brynn MacCoy	Brookshire-Green Foundation	Physics
Andrew Magee	Eve & Chap Alvord	Biology
Sage Malingen	Althea Stroum ARCS Endowment	Biology
Megan Maurano	Cindy & Stan Freimuth	MD/PhD - Molecular & Cellular Biology
Michael McKenna	Alta & Stan Barer	Chemical Engineering
Maria Nelson	Keith & Mary Kay McCaw Family ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Elizabeth Ng	Gladys Harrington ARCS Endowment in honor of Eve Alvord	QERM/GO-MAP
Gregory Olson	Joanne & Bruce Montgomery in Honor of American Lung Association ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Emily Olszewski	Seattle Chapter ARCS Light in Honor of Lynn Thomsen	Bioengineering
Jaime Rodriguez	Emer Dooley & Rob Short with Lyndi & Robert Taylor	Chemical Engineering/GO-MAP
Anthony Sanchez	Dorothy Lewis Simpson ARCS Endowment	Mathematics
Sanjay Srivatsan	Pengra Capital Management, Inc.	MD/PhD - Genome Sciences/GO-MAP
Nicole Thompson	UW Graduate School Diversity	Chemical Engineering/GO-MAP
Alexi Vasbinder	Pamela H. & Donald W. Mitchell ARCS Endowment	Nursing
Addien Wray	Cheryl & David Hadley	Earth & Space Sciences
Rowan Zellers	Camille & Jim Uhlir ARCS Endowment	Computer Science & Engineering
Lucas Zeppetello	UW Graduate School Diversity	Atmospheric Sciences/GO-MAP

“ARCS Fellowships continue to play a crucial role in our recruitment of top candidates because they are our best tools for recruiting gifted mathematicians to the UW Mathematics PhD program.”

— John Palmieri
 Professor and Graduate Program Coordinator
 Department of Mathematics, University of Washington

THIRD-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Jonathan An	Ruth & William P. Gerberding ARCS Endowment	DDS/PhD - Oral Health Sciences
Martin Arostegui	Barton Family	Aquatic & Fishery Sciences/GO-MAP
Michael Baldwin	Candice Rosenberg Peterson ARCS Endowment	DDS/PhD
Samuel Barlow	UW Graduate School	Chemistry
Isaiah Bolden	Micki & Robert Flowers ARCS Endowment	Oceanography/GO-MAP
Tyler Bonnett	Becky & Jack Benaroya ARCS Endowment	Biostatistics
Amanda Bradley	Jeff & Jana Foushée ARCS Endowment	Molecular & Cellular Biology/GO-MAP
Ruby Byne	ARCS Foundation Seattle	Physics
Elise Cai	ARCS Foundation Seattle	MD/PhD - Molecular & Cellular Biology
David Caldwell	Seattle Chapter ARCS Light in Honor of Lisa Losh	MD/PhD - Bioengineering
Kelly Carpenter	Washington Research Foundation in Honor of Luciana Simoncini and Todd Scheuer	Chemical Engineering/GO-MAP
Emily Clark	Linda & Tony Whatley	Physics/GO-MAP
Lukas DeFilippo	David McShea & Sophia Eitel	Aquatic & Fishery Sciences
Alec Gibson	Keith & Mary Kay McCaw Family ARCS Endowment	MD/PhD - Neuroscience
Gabriel Heymann	Joan F. Hess Memorial	MD/PhD - Molecular & Cellular Biology/GO-MAP
Casey Hilgenbrink	Alida & Christopher Latham	Atmospheric Sciences
Camille Houferak	Nicole A. Boand ARCS Endowment	Chemistry
Rini Kasinathan	Julie Tall ARCS Endowment	MD/PhD - Molecular & Cellular Biology/GO-MAP
Natalie Kico	Ann & Bruce Blume	Physics
Catherine Kuhn	Pendleton & Elisabeth Carey Miller Charitable Foundation	Environmental & Forest Sciences
Juhye Lee	Washington Research Foundation	MD/PhD - Genome Sciences
Kelsey Maass	Dorothy Lewis Simpson ARCS Endowment	Applied Mathematics
Eric Machado	Chisholm Foundation In Memory of Jean Chisholm Lindsey	Physics/GO-MAP
Nicholas Maurice	Leslie & Pete Higgins	Molecular & Cellular Biology
Mollie McDonnell	Vicki & Edward A. Rauscher	Molecular & Cellular Biology/GO-MAP
Ryan McGee	Rosa Ayer ARCS Endowment	Biology
Nicole Naiman	MAC Consortium ARCS Endowment	MD/PhD - Molecular & Cellular Biology/GO-MAP
Ryo Okubo	David & Catherine Eaton Skinner	Biology
Amy Oreskovic	Lisa & Mike Losh	Bioengineering
Camilo Posso-Escobar	Zevenbergen Capital Investments LLC	Mathematics
Mark Ragheb	Bill & Melinda Gates Foundation ARCS Endowment	MD/PhD - Microbiology/GO-MAP
Alexander Santiago	Mark A. Jones ARCS Endowment	Chemistry
Sean Santos	Vicki & Gary Glant ARCS Endowment	Applied Mathematics/GO-MAP
Rachel Shaffer	Terry Keegan Memorial	Environmental & Occupational Health Sciences
Wesley Tatum	Washington Research Foundation	Materials Science & Engineering/GO-MAP
Gabriella Tosado	Virginia M. Dickenson Memorial ARCS Endowment	Chemical Engineering/GO-MAP
Stephanie Varela	Joanne & Bruce Montgomery in Honor of American Lung Association ARCS Endowment	MD/PhD - Immunology
Aaron Walsman	Jen Brzana & Brian Lent	Computer Science & Engineering
Elizabeth Wicks	Walker Family ARCS Endowment	Mathematics
Rapheal Williams	Margaret Breen & Stewart Landefeld	Neuroscience/GO-MAP



UNIVERSITY OF WASHINGTON FELLOWSHIP SUPPORT AREAS

The Seattle Chapter of ARCS Foundation 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 School 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
Neuroscience
Pathobiology
Quantitative Ecology & Resource Management (QERM)

SCHOOL OF DENTISTRY

Oral Health Sciences

SCHOOL OF MEDICINE

Bioengineering (jointly with the College of Engineering)
Medical Scientist Training Program (MSTP)

SCHOOL OF NURSING

Nursing Science

SCHOOL OF PHARMACY

Medicinal Chemistry
Pharmaceutics
Pharmacy

SCHOOL OF PUBLIC HEALTH

Biostatistics
Environmental & Occupational Health Sciences
Epidemiology
Institute for Public Health Genetics

Rooted in the practice of an interdisciplinary approach to research, the Quantitative Ecology and Resource Management (QERM) PhD Program at the University of Washington provides a rigorous yet flexible curriculum. Students train in the application of statistical, mathematical, and decision sciences to terrestrial and aquatic ecology, natural resource management, biometrics, and mathematical biology, while pushing boundaries to create new knowledge.

Reflecting on its historical influence, uniqueness, and collegiality, Mark Kot, associate professor of applied mathematics, states, "For several decades now, QERM has been the focal point for quantitative studies of the environment and of natural resource systems on a global scale."

Since 1990, QERM has continued to recruit, retain, and graduate a select cohort of scholars with high mathematical aptitudes who conduct pioneering research addressing climate change, fire, drought, and sustainable fisheries. Highly qualified in viewing environmental science through quantitative perspectives, these talented PhD scholars have established meaningful careers in academia, government agencies, and consulting firms. Thus, QERM graduates are helping to change our awareness and understanding of the scarcity and limitations of earth's natural resources.

UW SPOTLIGHT



Ryo Okubo
ARCS Fellow, UW
Biology



Elizabeth Ng
ARCS Fellow, UW
QERM



UW FELLOW

Kelsey Maass

DEPARTMENT Applied Mathematics

DONOR Dorothy Lewis Simpson

“As a graduate student, I can’t give back with money, but I can give back with time,” says second-year Dorothy Lewis Simpson ARCS Endowment Fellow Kelsey Maass, “and ARCS helps make that possible.”

Kelsey played a key role in the launch of the UW Women’s Center’s Girls Who Code club, which aims to help close the gender gap in technology. She has been an active volunteer ever since, and was even able to lead a summer immersion program, thanks in part to her ARCS Fellowship.

Of course, the bulk of her time is spent on her studies. Kelsey, pursuing her PhD in applied mathematics, is working with a professor of applied mathematics and a professor of radiation oncology to develop new tools and algorithms for optimization. She is now finishing a paper that uses a mathematical framework to calculate optimal protocols for cancer patients.

Determining the course of treatment for cancer is often a complicated process that can involve conflicting expert opinions and result in worry and confusion on the part of the patient. Fully realized, Kelsey’s work could help doctors construct rigorously optimized mathematical protocols tailored to each individual—a boon for physicians as well as patients and their families.

“We’re learning that the same big data tools that guide artificial intelligence, such as self-driving cars, can be applied to medicine,” Kelsey says. “It’s a very exciting time.”



DONORS

Karyl and Elias Alvord

FELLOW Chris Arakawa, Bioengineering, UW

FELLOW Benjamin Lee, Entomology, WSU

“Who doesn’t want to support the incredible work of these Fellows?” asks Karyl Alvord. She and her husband, Elias, currently fund two ARCS Fellowships: one for Benjamin Lee, a first-year entomology PhD student at Washington State University (WSU), and the other for Chris Arakawa, a fifth-year MD/PhD student studying bioengineering at the University of Washington (UW).

“I’m amazed by these brilliant, innovative scholars,” Karyl continues. “Chris’ work in cardiac tissue engineering has tremendous potential to save lives, and Benjamin’s application of entomology as it relates to farming could someday mean that subsistence farmers in developing countries are able to feed not only themselves, but others in the immediate area as well.”

Benjamin and Chris are just as enthusiastic when describing their appreciation of the Alvords. “It means so much. They are investing in me and honestly seem happy to be doing it,” says Benjamin. “It makes a Fellowship feel human; the investment is personal as well as financial.” Adds Chris, “Knowing that someone is saying ‘I believe in you’ makes such a difference.”

The confidence that Karyl and Elias have in their Fellows is exceeded only by their confidence in ARCS and its mission. “You never know where the next breakthrough might come from,” Karyl says. “And ARCS is helping to cultivate that breakthrough by supporting some of the brightest minds in critical fields. Supporting ARCS isn’t just philanthropy—it’s investing in the future.”



DONORS

Trish and Jim Rogers

FELLOW Lori Bedient, Veterinary Microbiology and Pathology, WSU

FELLOW Ryan Oliveira, Veterinary Science, WSU

“ARCS Fellowships give student scientists unrestricted financial assistance to support their endeavors in any capacity they choose, and this is unique. These scholars return excellence through their efforts to accomplish meaningful research for a better world,” says Dr. Trish Rogers. She and her husband, Jim, currently fund ARCS Fellowships for Dr. Ryan Oliveira and Dr. Lori Bedient, both in the combined Pathology/PhD program at Washington State University (WSU).

Ryan and Lori credit their ARCS Fellowships with helping to tip the scales in favor of selecting WSU over other top universities. “I couldn’t afford to do a PhD here without it,” says Ryan. Adds Lori, who practiced as a veterinarian for several years before coming to WSU with her young family, “It really helped with the transition from being a practicing vet to being a full-time graduate student.”

A longtime veterinarian herself, Trish has a deep understanding of the work Ryan and Lori are doing—a fact both scholars appreciate. “It’s nice to have someone to talk to,” says Ryan. “Jim and Trish are like extended family, and it’s great to get their perspective.” Lori echoes that sentiment, saying, “We have a lot of common ground, which helps me feel a strong connection to them. Knowing they are funding my ARCS Fellowship increases my desire to do good work—they really do care about it.”



FELLOWS

WASHINGTON STATE UNIVERSITY

FIRST-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Brent Arnoldussen	Beverly & Donald Jefferson	Plant Pathology
Megan Asche	Connie Niva and Marcia McGreevy Lewis	Entomology
Rachel Bone	Washington Research Foundation	Veterinary Microbiology and Pathology
Cody Cockreham	Loch Anderson & Allyn Perkins II ARCS Endowment	Chemical and Bioengineering
Sedelia Dominguez	ARCS Foundation Seattle	Molecular Biosciences
Amanda Foreman	Kathleen & Brooks Simpson	Veterinary Microbiology and Pathology (GAH)
John Hadish	Valerie Voss & John Houlihan with ARCS Foundation Seattle	Molecular Plant Sciences
Ellis Hammond-Pereira	Washington Research Foundation	Chemical and Bioengineering
Lee Opdahl	ARCS Foundation Seattle	Crop and Soil Sciences
Gregory Pearson	Jacque & Rick Doane	Veterinary Microbiology and Pathology
Kelly Ramsay	Alicia & Jeff Carnevali in honor of Sophia R. Carnevali ARCS Foundation Endowed Fellowship	Veterinary Microbiology and Pathology
Matthew Romero	Seattle Chapter ARCS Light in Honor of Lynn Manley	Molecular Biosciences
Jessa Thurman	Jeff & Jana Foush�ee Family ARCS Foundation Endowment	Entomology
Joel Velasco	Debbi & John Wilson with Jenny & Scott Wyatt	Molecular Plant Sciences
Halle Weimar	Integrative Physiology & Neuroscience	ARCS Foundation Seattle

SECOND-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Lori Bedient	Jim & Trish Rogers	Veterinary Microbiology & Pathology
Jacob Bray	Washington Research Foundation	Chemical Engineering
Michael Crowley	Jeannie Nordstrom in honor of Pepper Payne	Veterinary Microbiology and Pathology
Jonathan Eagle	WSU Presidents Award	Plant Pathology
Rachel Gewiss	Washington Research Foundation	Molecular Biosciences
Noe Gomez	Catherine Mee	Animal Sciences
James Hepler	Seattle Chapter ARCS in Memory of Elson S. Floyd	Entomology
Benjamin Lee	Karyl & Elias Alvord	Entomology
Becky Lee	In Memory of Boss Barrier	Veterinary Microbiology & Pathology
Alexander Olson	WSU Graduate School	Molecular Plant Sciences
Nikayla Strauss	Eve & Chap Alvord	Crops & Soil Sciences
Kaitlin Witherell	Wiley S. Montgomery	Veterinary Microbiology & Pathology

THIRD-YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Rachael DeTar	ARCS Foundation Seattle	Molecular Plant Sciences
Tara Lewis	Debbie Girdler & Dave Cutler	Crop & Soil Sciences
Matthew Marcec	ARCS Foundation Seattle	Molecular Plant Sciences
Ryan Oliveira	Jim & Trish Rogers ARCS Endowment	Veterinary Microbiology & Pathology
Nicholas Pokorzynski	Loch Anderson & Allyn Perkins ARCS Endowment	Molecular Bioscience
Joseph M. Taylor	Aven Foundation ARCS Endowment	Entomology
Jenny M. Voss	Howard Wright & Kate Janeway	Chemical Engineering
Naomi Wallace	Washington Research Foundation	Integrative Physiology & Neuroscience
Jessica K. Wong	Lynn & Mikal Thomsen	Veterinary Microbiology & Pathology



“Support from ARCS Foundation enabled me to get four exceptional students in my program over the last ten years. Two of them cofounded a spinoff from my lab called Phytelligence. Another ARCS Fellow used the support to conduct an internship at a major genomics company in Spain. I am very grateful for the association WSU has with ARCS Foundation. It has benefited the Fellowship recipients and has enhanced the impact of my research program.”

— Amit Dhingra
Associate Scientist/Associate Professor,
College of Agricultural, Human, and Natural
Resource Sciences, Department of Horticulture,
Washington State University



WASHINGTON STATE UNIVERSITY FELLOWSHIP SUPPORT AREAS

The Seattle Chapter of ARCS Foundation 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



WASHINGTON STATE UNIVERSITY

Department of Chemistry

The Department of Chemistry at Washington State University delivers faculty-led basic and applied research that provides transformational aid to Washington and the nation in commerce, national security, human health, environmental and natural resources, and more. This discovery-based training for our next generation of chemists ensures continued innovation and workforce capacity for a technology-based society. The department has three multidisciplinary areas of focus: Energy and the Environment, Materials, and Biological Systems.

Chemistry of Energy and the Environment includes the nuclear chemistry group: faculty members have strong partnerships with the Pacific Northwest National Laboratory. WSU is one of the very few universities to have a nuclear reactor and has one of the best PhD radiochemistry programs in the U.S.

Chemistry of Materials includes physical chemistry and inorganic chemistry, and is the focus of the interdisciplinary Materials Science and Engineering Program (MSEP). Its faculty carries out research on catalyses, nanomaterials, surface science, and materials for the energy industry.

Chemistry of Biological Systems faculty collaborates with faculty at the WSU School of Veterinary Medicine and the Elson S. Floyd College of Medical Sciences. Their multidisciplinary research encompasses synthetic organic and biochemistry, studying reactivity and chemical techniques in living systems.

Department faculty trains nearly 100 doctoral students. Seven faculty members are recognized as fellows of the American Association for the Advancement of Science, seven are fellows of the American Chemical Society, two are fellows of the American Physical Society, and one is a fellow of the American Vacuum Society.

WSU SPOTLIGHT

WSU FELLOW 2016-2019

Jonathan Eagle

DEPARTMENT Plant Pathology

DONOR WSU President's Award

"I thought I could make a difference." So says Jonathan Eagle, describing what led him to study plant pathology.

It's a sentiment that can be applied to other areas of Jonathan's life as well. He's a veteran of the US Air Force, in which he served as a crew chief on fighter planes and lived the Air Force's core values of "Integrity first, service before self, and excellence in all we do."

That experience was ideal preparation for Jonathan in his current work. As a second-year ARCS Fellow, he's looking at stripe rust, a wheat disease that reduces grain quality and yields. "It's one of the most economically important wheat pathogens in the Pacific Northwest," he says.

Jonathan is using genetic markers to map wheat genes involved in stripe rust resistance. "There are multiple types of resistance genes," he comments. "Some are better than others, and stripe rust is evolving quickly." The goal? To confidently identify genetic markers that cosegregate with important genes involved in stripe rust resistance. Plant breeders can then use those markers to stack multiple favorable genes in one cultivar, creating a robust, rust-resistant product.

Jonathan credits ARCS not only with aiding him in his decision to study at Washington State University, but also with helping him do his best work. "I appreciate the mentorship," he says. "People who have gone before you and been successful—that's who you want to be surrounded by."



In Their Own Words

WSU FELLOW 2015-2018 Tara Burke Lewis

DEPARTMENT Crop & Soil Sciences

DONOR Debbie Girdler & Dave Cutler



“The ARCS Fellowship was a determining factor in my decision to attend WSU; it has allowed me to spend my energy on my research rather than having to worry about finances. Additionally, ARCS Foundation has enriched my graduate experience immeasurably through the opportunity to interact with donors and other students doing exciting research in various disciplines.”

UW FELLOW 2005-2008 Jevin West

Assistant Professor, UW Information School

DONOR Zevenbergen Capital Investments LLC



“My ARCS Fellowship catalyzed a creative period in my research career that continues to this day. I really appreciate what ARCS did for me when I was a graduate student, and appreciate it from a different perspective now that I am a faculty member.”

UW FELLOW 2014-2017 Lindsay Henderson

DEPARTMENT School of Pharmacy

DONOR UW Graduate School Diversity



“UW School of Pharmacy is one of a few academic institutions in the country offering a dual PharmD/PhD degree. The prestige and duality of the program require focus, time, and confidence. Being offered an ARCS Foundation Fellowship is a continuous vote of confidence in my abilities as a scientist, for which I will be eternally grateful.”

WSU FELLOW 2015-2019 Rachel Gewiss

DEPARTMENT Molecular Biosciences

DONOR Washington Research Foundation



“ARCS Foundation has been influential in each step of my graduate career—first, in making the decision to come to WSU, and continually thereafter by allowing me to connect with influential people in a broad range of disciplines. I am honored to be recognized by ARCS for both my past achievements and my future potential in the scientific community.”

Where Are They Now?

Jon Oatley, PhD

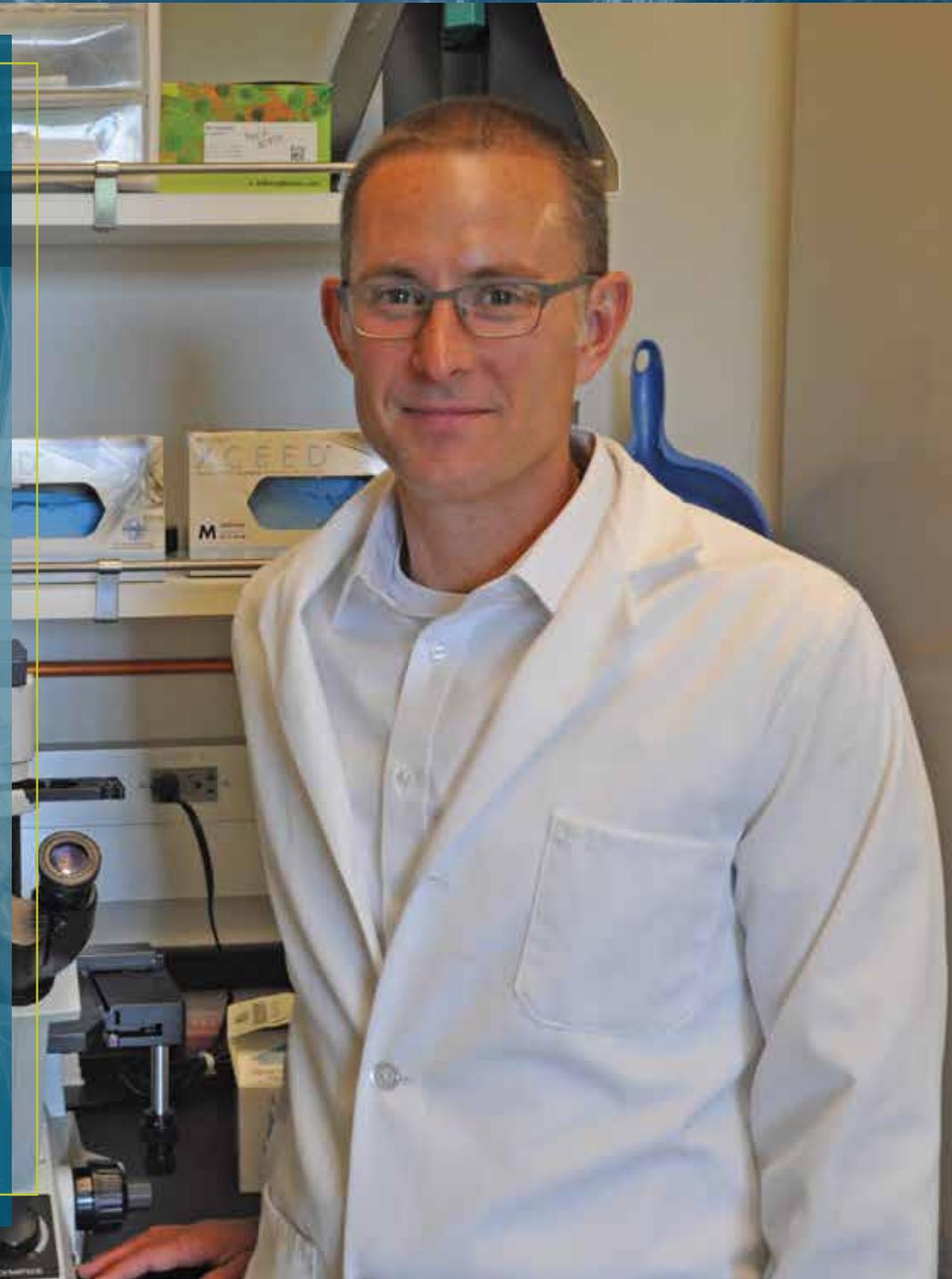
WSU ARCS FELLOW YEARS 2002-2005

DONOR ARCS Foundation Seattle

Dr. Jon Oatley's professional life has come full circle in a remarkable way: In 1999, he enrolled as a PhD student at Washington State University's Center for Reproductive Biology just a year after it opened; eighteen years later, he is the center's director.

Jon's research has also followed a circular path. With a background in cattle farming and a desire to improve the process of creating food animals, he focused his graduate research on reproductive stem cells in cattle. His time is now divided, with about half of it spent looking at ways to produce food animals more efficiently using stem cells in reproductive tissues. The remainder is devoted to solving the issue of chemotherapy-induced infertility in men and boys by preserving, then reintroducing, stem cells in the testes.

Involvement with ARCS is yet another way Jon's experience has come full circle. The recipient of an ARCS Fellowship while pursuing his PhD, he now sees the benefits of a Fellowship from an educator's perspective. And, while an ARCS Fellowship clearly offers a financial benefit, Jon believes ARCS also serves another important, often overlooked, purpose. "Scientists don't often have an opportunity to communicate with the public," he notes. "ARCS provides a forum for learning how to explain research not only to potential funders, but also to the media and the general public. It's very useful training."



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ARCS LIGHT AWARD Lynn Manley



2017 marks the tenth year that Lynn Manley and her husband, Lex Lindsey, have hosted the ARCS convocation for University of Washington third-year Fellows. Says Lynn, "Watching the scholars give their presentations creates a feeling of awe ... it just never wears off."

ARCS Foundation Seattle is pleased to present Lynn Manley with the 2017 ARCS Light Award, given to a member who has made significant contributions to the chapter. After joining ARCS in 2002, Lynn went on to become an active board member and also served as the organization's vice president of finance. Through their family's foundation, Lynn and Lex fund two UW endowments and are currently funding their tenth ARCS Fellowship.

Lynn's background includes 40 years of banking, with Fortune 500 companies among her clients, for Rainier Bank (later Security Pacific Bank of Washington) and US Bank. She has volunteered her time and resources for the Seattle Repertory Theatre, the Seattle Repertory Theatre Foundation, Washington State University's College of Business, PATH, and the Lauren Rogers Museum of Art; she's currently a co-chair representing the UW's School of Natural Sciences in the capital campaign.

"ARCS is the perfect storm of science and education," says Lynn. "I'm thrilled by the honor of this award." Lynn, with her exemplary dedication, is exceptionally deserving of this year's ARCS Light Award.

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