



ARCS

Achievement Rewards for College Scientists

➤ **Fostering Discovery. Driving Innovation.**

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

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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.

Pictured on cover: ARCS Fellows Heather Machkovech and Mike Doud, both UW, MD/PhD - Genome Sciences;
Pictured in background: Detail of work being done by ARCS Fellow Michael Baldwin, UW, DDS/PhD, Oral Health Sciences with Sue Herring, PhD, Professor of Orthodontics and Oral Health Sciences, UW

2016-2017 ARCS Foundation, Seattle Board of Directors

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Thoughts from the Presidents



“Dear Treasured Supporters,
How does one foster discovery? By investing in ARCS Foundation Fellows. Your contribution will, in turn, drive innovation. ARCS Fellows play a significant role in sustaining our state’s powerful scientific presence, and their innovative ideas help fuel our economy. Together we are living the 2016 ARCS Foundation luncheon theme: “Fostering Discovery. Driving Innovation.” Thank you for your essential help.”

MARCIA MCGREEVY LEWIS — President, Seattle Chapter ARCS Foundation



“The University of Washington’s partnership with ARCS Foundation is key to our continued recruitment of the finest minds in science, technology, engineering, math, and medical research. The generous and visionary ARCS Foundation Fellowships have been game changers for the UW and for the students who go on to make our world a better place.”

ANA MARI CAUCE — President, University of Washington



“As a tier-1 research institution, Washington State University relies on graduate students to work side-by-side with faculty to meet our ambitious research goals. With the support of ARCS Foundation, we have been able to provide assistance to some of our most talented doctoral students, allowing them to focus on the important challenges before them. The immense impact of the ARCS Foundation support cannot be measured in dollars only, but also in the broad range of lives changed through the critical research our graduate students have conducted over the years. We are grateful to the ARCS Foundation for its ongoing pursuit of helping institutions like Washington State University solve the problems of our complex world.”

KIRK H. SCHULZ — President, Washington State University

ARCS Foundation Seattle – Fostering Discovery. Driving Innovation.

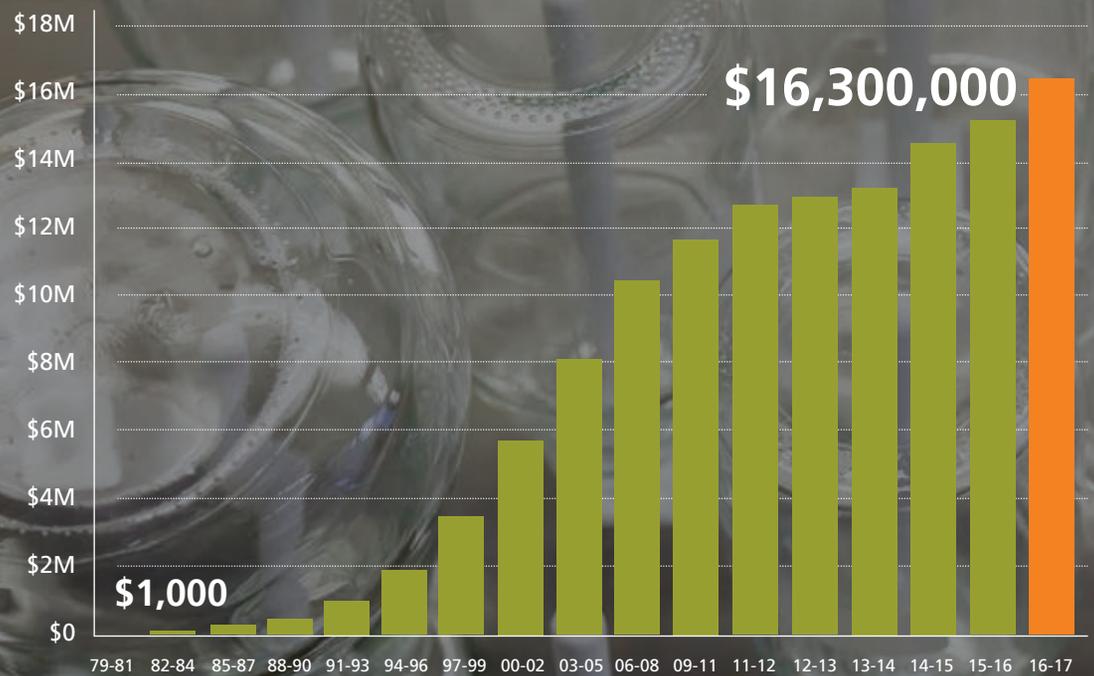
ARCS Foundation Seattle Chapter Fellowships give our universities a critical competitive edge in recruiting top graduate students. These highly capable individuals are catalysts who help build vibrant academic communities where teamwork, visionary insights, and creativity flourish. The contributions 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:

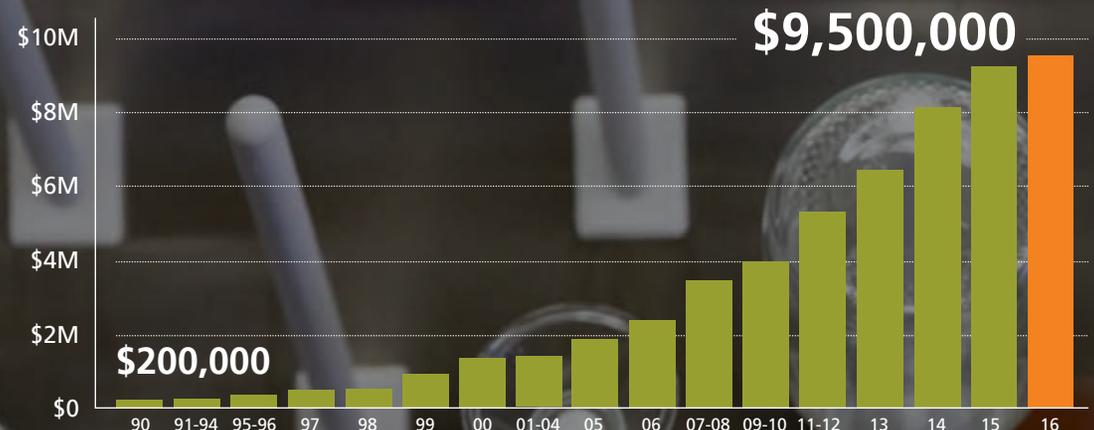
- Founded in 1978, is one of 16 ARCS chapters nationwide
- To date has supported 1,165 fellows with awards totaling over \$16.3 million
- This year supports 154 fellows with awards in excess of \$905,000
- Currently there are 49 ARCS Foundation Seattle Named Endowments with over \$9.5M in assets supporting fellowships in perpetuity
- Funds 36 departments at UW and 11 at WSU
- Second 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 2016-2017)



Seattle Chapter Endowments (FY 2016) Growing a Strong Future for Science



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

ARCS Foundation is a non-profit organization incorporated in 1978. Tax ID 91-1042292.



“It benefits my soul to know that I’m helping someone—and will continue to help long after I’m gone,” says planned giving donor Jean Viereck. “I want to invest in the best and brightest, those who are shining a light ahead to make the future better for all of us.”

Jean “very proudly” joined ARCS Foundation, Seattle Chapter in 1992 and, since then, has funded five MD/PhD fellowships. Medicine in general and cancer in particular are of special interest to Jean; she’s lost 22 friends to the disease and has also fought it herself. “What could be better than funding young people who want to uphold the medical legacy of our country?” she asks. “And what I get back is wonderful, too: a friendship, knowledge, a commitment to make the world a better place.”

“It’s a wonderful, worthy endeavor,” Jean says of ARCS. “I will always wish that I could do more.”

Jean Viereck pictured above with ARCS Fellow Natalie Vandeven, UW, MD/PhD - Pathology

FELLOWS

UNIVERSITY OF WASHINGTON

FIRST 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	Fainway 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 Straum 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

SECOND 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 Kloo	Ann & Bruce Blume	Physics
Catherine Kuhn	Pendleton & Elisabeth Carey Miller Charitable Foundation	Environmental & Forest Sciences
Juhye Lee	ARCS Foundation Seattle	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 Giant ARCS Endowment	Applied Mathematics/GO-MAP
Rachel Shaffer	Terry Keegan Memorial	Environmental & Occupational Health Sciences
Zuoming Shi	Washington Research Foundation	Computer Science & Engineering
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

“ ARCS Foundation has been such an important part of the department and is one of the factors that has allowed us to get where we are now. We hope this association continues for decades to come! ”

— Bernard Deconinck, PhD, chair of the Applied Mathematics department, University of Washington, ranked by the National Research Council as the no. 1 doctoral program in applied mathematics in the U.S.

THIRD YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Christopher Arakawa	Karyl & Elias Alvord	MD/PhD - Bioengineering
Jaco Baudin	Carol Wright	MD/PhD - Physiology & Biophysics
Wesley Beckner	PACCAR Inc.	Chemical Engineering
Sidney Bell	Roche/ARCS Foundation	Molecular & Cellular Biology
Hannah Bish	Seattle Chapter ARCS Light in Honor of Lynn Pigott Mowe	Astronomy
Angela Boysen	Kathy & Michael McQuaid with Sally & David Wright	Oceanography
Miriam Calkins	ARCS Foundation Seattle	Environmental & Occupational Health Sciences
Kathleen Champion	Washington Research Foundation ARCS Endowment	Applied Mathematics
Rossana Colon-Thillet	Rosa Ayer ARCS Endowment	Molecular & Cellular Biology
Makayla Cordoza	Joanne & Bruce Montgomery ARCS Endowment	Nursing Science
James Dimond	ARCS Foundation Seattle	Aquatic & Fishery Sciences
Max Dougherty	Becky & Jack Benaroya ARCS Endowment	MD/PhD - Genome Sciences
Rachel Eaton	John W. & Elaine A. Zevenbergen, Sr. ARCS Endowment	Chemistry
Kristian Eschenburg	Washington Research Foundation	Bioengineering
Christopher Everson	Althea Stroum ARCS Endowment	Aeronautics & Astronautics
Gregory Findlay	ARCS Foundation Seattle	MD/PhD - Genome Sciences
Hannah Frizzell	Roche/ARCS Foundation	Bioengineering
Natalie Gasca	George & Carlyn Steiner ARCS Endowment	Biostatistics
Daniel Gordon	Walker Family ARCS Endowment	Computer Science & Engineering
Sean Griffin	Althea Stroum ARCS Endowment	Mathematics
Kelsey Grinde	ARCS Foundation Seattle	Biostatistics
Jessica Haskins	Camille & Jim Uhlir ARCS Endowment	Atmospheric Sciences
Lindsay Henderson	UW Graduate School Diversity	Pharmacy/GO-MAP
Aleksander Holynski	UW Graduate School Diversity	Computer Science & Engineering/GO-MAP
Jason Klein	ARCS Foundation Seattle	MD/PhD - Genome Sciences
John Lazar	ARCS Foundation Seattle	MD/PhD - Genome Sciences
Steven Levitte	Keith & Mary Kay McCaw Family ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Rachelle Lim	Oceanus ARCS Endowment	Oceanography
Cyndi Lopez	UW Graduate School Diversity	Civil & Environmental Engineering/GO-MAP
Heather Machkovech	Zevenbergen Capital Investments LLC	MD/PhD - Genome Sciences
LomaJohn Pendergraft	UW Graduate School Diversity	Environmental & Forest Sciences/GO-MAP
Jillian Pintye	Pamela H. & Donald W. Mitchell ARCS Endowment	Nursing Science
Jesse Resnick	Althea Stroum ARCS Endowment	MD/PhD - Neuroscience
Richard Revia	Gerald J. Baldasty - Graduate School Diversity	Materials Science & Engineering/GO-MAP
Jessica Schroeder	Lesla Sroufe & Kathy Petrait	Computer Science & Engineering
Jesse Stryker	Lee & Mike Brown	Physics/GO-MAP
Nile Wilson	Washington Research Foundation	Bioengineering/GO-MAP
Tsegaselassie Workalemahu	Kathleen & David Eaton with Julie Barbo & Mark Maghie	Epidemiology/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



UNIVERSITY OF WASHINGTON

The Clean Energy Institute

A Research & Education Program Benefiting from ARCS Foundation Support

The University of Washington's Clean Energy Institute (CEI) is at the forefront of a worldwide shift from nonrenewable fossil fuels—coal, oil, and gas—to renewable energy sources—solar, wind, and water. Applying a “molecules to miles” approach, the institute brings together researchers across multiple science and engineering disciplines to advance science and technology that will lead to the next generation of solar energy materials and electrical energy storage systems, and help integrate them into a smart, resilient electrical grid.

CEI researchers are developing novel materials at the molecular level for solar energy conversion and electrical energy storage devices. They are also pioneering high-output manufacturing methods using solar inks and dyes, which are well-suited to low-cost solar and battery materials. Meanwhile, energy systems researchers use sophisticated information technology and analysis to ensure these research advances have the broadest possible impacts. Using innovative software and hardware tools researchers are developing a grid platform that can accommodate renewable energy and electrical energy storage materials, enabling a scalable clean energy economy.

Since CEI's founding in 2013 with funding from the Washington State Legislature, institute faculty members from numerous ARCS-eligible departments in the UW College of Engineering and the College of Arts & Sciences have recruited talented ARCS Foundation Fellows to campus. Funded by ARCS Foundation Fellowships, these PhD scholars have the intellectual freedom, distinguished faculty mentors, and world-class facilities to support their goal of a clean energy future.



ARCS Fellow Gabby Tosado, UW, Chemical Engineering

UW SPOTLIGHT

UW FELLOW 2013-2016

Gabby Barsh

DEPARTMENT Cellular & Molecular Biology

DONOR Brookshire-Green Foundation

Each Thanksgiving during Gabby Barsh's childhood, her parents would ask her what she wanted to be when she grew up; they then wrote her answer down in a notebook. Their record reflects that she knew from a very early age that she would be either a doctor or a scientist.

As it turns out, she is becoming both. Gabby, who is pursuing an MD and a PhD in molecular and cellular biology at the University of Washington, is studying the nervous system development of vertebrates, in particular, the cranial motor neurons that activate muscles in the head and neck. She's working to understand how the neuron knows where to send its axon to send information to the muscle—and the knowledge gained by her research is transferable to humans and their development.

The particular group of neurons Gabby is studying innervates the muscles that regulate speech and swallowing. A deeper grasp of how these neurons work could increase understanding of not only genetic diseases that impact the ability to eat, but also cancer and how it acts in the body.

A third-year ARCS Fellow, Gabby deeply appreciates the "vote of confidence" that her fellowship provides. "It keeps me afloat, as it does for many other fellows," she says, "and it also lets me know that I'm doing well. That's the biggest thing for me."





UW FELLOW 2013-2016

Andre Perkins

DEPARTMENT Atmospheric Sciences

DONOR Nancy Mee & Dennis Evans

Artists and ARCS donors Dennis Evans and Nancy Mee believe in the power of charitable giving, particularly to the field of education. “We’ve been so fortunate in our lives and careers; we feel it’s important to give back,” says Nancy. “Especially in education,” Dennis adds. “It changes the world—and one person’s life.”

Andre Perkins, a PhD candidate in atmospheric sciences at the University of Washington, is working on a world-changing project—and his life has been changed by his ARCS Fellowship, funded by Dennis and Nancy. Andre’s work is focused on a groundbreaking shift in the field of climate studies: he is a member of a team that is spatially reconstructing the global climate record dating back to the beginning of the first millennium.

It’s difficult to overstate the implications of such a project. “The global instrumental record only goes back about 120 years,” says Andre. “So this [reconstructed record] increases the amount of information we have substantially. It can help us understand what oscillations are normal, the range of extremes we can see, and how climate changes over time.”

Dennis and Nancy are proud to support Andre and his work. “He’s a rising star,” notes Nancy. And Andre, for his part, is looking forward to following in his donors’ footsteps: “Being part of ARCS means a lot to me; I’m looking forward to giving back,” he says.

WSU FELLOW 2015-2018

Nicholas Pokorznski

DEPARTMENT Molecular Biosciences

DONOR Allyn Perkins & Loch Anderson

"Instead of giving people fish, you're teaching them to fish," notes ARCS Foundation Fellowship donor Allyn Perkins. "With ARCS, you can see the tangible results of your donation—with huge potential. These kids are doing research that could change the world."

Allyn and her husband Loch Anderson are helping to make some of that potentially groundbreaking work possible by funding the ARCS Fellowship of Nick Pokorzynski. Currently pursuing a PhD at Washington State University's School of Molecular Biosciences, Nick is studying the organism that causes chlamydia, one of the world's most widespread sexually transmitted diseases. Chlamydia is frequently asymptomatic, and up to 50 percent of cases go unreported. Untreated, the disease can be chronic and lead to infertility, recurring pain, and a variety of other health issues.

Why are so many cases of chlamydia asymptomatic? That's what Nick is working to understand. "It may be because the bacteria is responding to suboptimal conditions in the cell," he says, "and this response may involve chlamydia slowing down, or taking the foot off the gas, so to speak."

Nick's research has the potential to help change not only how asymptomatic chlamydia is identified, but the course of treatment for the disease as well—creating tangible results and changing the world in exactly the way that Allyn and Loch hoped when they became his fellowship donors.



FELLOWS

WASHINGTON STATE UNIVERSITY

FIRST YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Lori Bedient	Jim & Trish Rogers	Veterinary Microbiology & Pathology
Jacob Bray	Washington Research Foundation	Chemical Engineering
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
Jenna Murray	Jeannie Nordstrom in Honor of Pepper Payne	Global Animal Health
Alexander Olson	WSU Graduate School	Molecular Plant Sciences
Nikayla Strauss	Eve & Chap Alvord	Crops & Soil Sciences
Kaitlin Witherell	Wiley S. Montgomery	Veterinary Microbiology & Pathology

SECOND YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Christa R. Clements	Lynn & Mikal Thomsen ARCS Endowment	Veterinary Microbiology & Pathology
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	ARCS Foundation Seattle	Integrative Physiology & Neuroscience
Breanna Wong	Washington Research Foundation	Chemical Engineering
Jessica K. Wong	Lynn & Mikal Thomsen	Veterinary Microbiology & Pathology

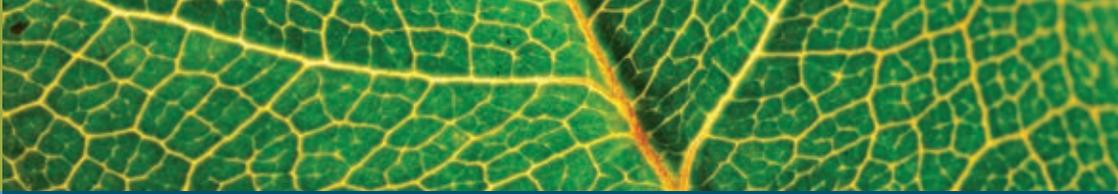
THIRD YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Liam Broughton-Neiswanger	Roche/ARCS Foundation	Veterinary Microbiology & Pathology
Piyanka Bushana	ARCS Foundation Seattle	Integrative Physiology & Neuroscience
Gregory Collinge	ARCS Foundation Seattle	Chemical Engineering
Seanna Hewitt	ARCS Foundation Seattle	Molecular Plant Sciences
Jeffrey Hoyt	Washington Research Foundation	Integrative Physiology & Neuroscience
Nicholas Jaegers	ARCS Foundation Seattle	Chemical Engineering
Erika Kruse	ARCS Foundation Seattle	Molecular Plant Sciences
Alisha Massa	Connie Niva	Veterinary Microbiology & Pathology
Brigid Meints	ARCS Foundation Seattle	Crop & Soil Sciences
Robert Orpet	Debbi & John Wilson with Jenny & Scott Wyatt	Entomology
Anne Pollard	ARCS Foundation Seattle	Crop & Soil Sciences
Brittney Wager	ARCS Foundation Seattle	Molecular Plant Sciences
Laura Williams	Lynn & Mikal Thomsen	Veterinary Microbiology & Pathology



“ARCS Foundation Fellowships allowed me to attract four top students who had keen interest in my field. One was recruited by one of the nation’s top chemical engineering programs, but chose WSU instead; another was recently awarded a National Science Foundation Graduate Research Fellowship. ARCS enables me to train students at the frontier of catalysis research.”

— Jean-Sabin McEwen, PhD, assistant professor, The Gene and Linda Voiland School of Chemical Engineering and Bioengineering, 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 AGRICULTURE, HUMAN AND NATURAL RESOURCE SCIENCES

Animal Sciences
Crop & Soil Sciences
Entomology
Molecular Plant Sciences
Plant Pathology

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 The Molecular Plant Sciences Graduate Program An ARCS Foundation–supported Program

The graduate program in molecular plant sciences at Washington State University brings together faculty and PhD students from nine departments across four colleges into one cohesive group sharing a common interest in the molecular aspects of plant biology. The result is a program that provides graduate students with enormous flexibility and many opportunities for growth.

Research being conducted in the molecular plant sciences program is dynamic, well-funded, and productive. This year, the program has forty-three faculty training forty-nine scholars working toward their doctorates. Among the program's faculty are National Academy of Sciences members and some of the most influential plant science researchers in the world. WSU graduate students in plant physiology, biochemistry, and molecular biology work with some of the best minds in America to understand the characteristics and mechanisms of plants, and they use their knowledge to develop lifesaving medicines, safe and abundant food, and innovative agricultural systems to feed expanding global populations.

The graduate program in molecular plant sciences at WSU is widely recognized as one of the top ten in the world. The most recent ranking published by the National Research Council placed the program in the top five in the U.S. In addition, it recently ranked second nationally in number of articles published in scientific journals; third nationally in percentage of faculty whose work is cited by other researchers; and fifth nationally in overall faculty research productivity. According to the ISI Highly Cited Researchers list, Washington State University plant scientists are among the most highly cited in the world.

A photograph of Alisha Massa, a woman with long blonde hair, wearing a light blue lab coat, sitting in a laboratory. She is smiling and looking towards the camera. In the background, there are laboratory cabinets, a door, and a black jacket hanging on a rack. The text is overlaid on a semi-transparent teal box on the left side of the image.

WSU FELLOW 2014-2017

Alisha Massa

DEPARTMENT Veterinary Microbiology & Pathology

DONOR Connie Niva

“As a child, I was always in 4-H, always knew I would be a veterinarian,” says second-year ARCS Fellow Alisha Massa. “And because infectious diseases play such a major role in the field, I wanted to study them—especially those with a One Health connection.” The One Health concept, as defined by the Centers for Disease Control and Prevention, recognizes that the health of humans is connected to the health of animals and the environment.

Alisha, a veterinary pathology resident and doctoral student at Washington State University, is achieving her goals in a big way: she is studying ovine progressive pneumonia, a disease that infects an estimated 25 percent of all sheep in the United States. It is caused by a virus closely related to human immunodeficiency virus (HIV). Like HIV, ovine progressive pneumonia is a lifelong infection; however, there are no treatments or viable vaccines for the sheep afflicted with the disease.

Alisha is working to change that. She is focused on developing a genetic test by studying a genomic marker discovered by her lab that can predict which sheep will have increased resistance to the disease after infection. She also is trying to understand how the underlying genetic mutation in the sheep may help them fight off the virus.

Will the same genetic mutation impact the study of HIV? It's too soon to tell. But in the meantime, millions of sheep—not to mention our country's economy—stand to benefit from Alisha's efforts.

In Their Own Words

UW FELLOW 2015-2019 Catherine Kuhn

DEPARTMENT Environmental & Forest Sciences

DONOR Pendleton & Elisabeth Carey Miller Charitable Foundation



“I wouldn’t have come to the University of Washington without this fellowship. In deciding between UW and another top-ranked research institute with equally excellent facilities, student support, and research opportunities, ARCS funding tipped the scales for me. In addition to the financial benefit, I was impressed by ARCS Foundation’s commitment to helping out early career scientists and the emphasis on supporting diversity in STEM fields.”

WSU FELLOW 2015-2019 Tara Burke

DEPARTMENT Crop & Soil Sciences

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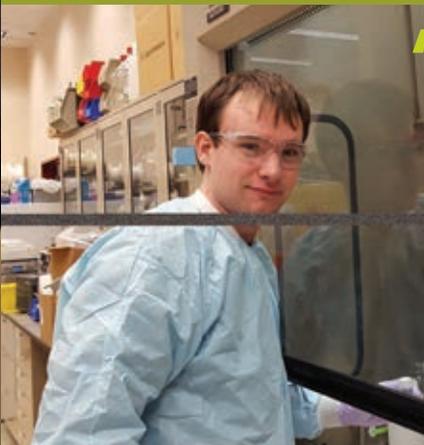


“The ARCS Foundation Fellowship was a determining factor in my decision to attend WSU; it has allowed me to spend my energy on my research rather than having to worry about finances. Additionally, the ARCS program has enriched my graduate experience immeasurably through the opportunity to interact with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

WSU FELLOW 2014-2017 Nick Jaegers

DEPARTMENT Chemical Engineering & Bioengineering

DONOR ARCS Foundation Seattle



“Sponsorship by ARCS Foundation Seattle has provided the financial means for me to conduct my research within the state-of-the-art facilities at Pacific Northwest National Laboratory. Working with the seasoned scientists in developing an understanding of catalytic systems contributes invaluable to my education and experiences.”

UW FELLOW 2015-2019 Aaron Walsman

DEPARTMENT Computer Science & Engineering

DONOR Jen Brzana & Brian Lent



“I chose the University of Washington because of unique opportunities to pursue my research interests and work with faculty that shares a passion for robotics and robotic perception. The independence of the ARCS Foundation Fellowship greatly increases my freedom to explore my research goals.”

Where Are They Now?



Jodie Katon, PhD

WSU ARCS FELLOW 2008 - 2011

DONOR George & Carlyn Steiner ARCS Endowment

Jodie Katon completed her PhD in epidemiology at the University of Washington within three years—and with no debt. “That wouldn’t have been possible without ARCS Foundation,” she says. “I felt so grateful to be in a top-notch program at a top-ranked school, participating in an amazing training opportunity... the ARCS funding was the icing on the cake.”

Now a research health science specialist for the U.S. Department of Veterans Affairs (VA) Puget Sound Health Care System, Jodie is doing work that aligns well with her research on gestational diabetes at the University of Washington—and her lifelong interest in reproductive health. Her current projects include the mental health of pregnant and postpartum veterans; the organization of gynecological care within the VA; and improving outcomes for pregnant veterans. “There isn’t a lot of awareness of the VA’s work in the area of women’s reproductive health,” says Jodie, “but it’s a priority for the organization.”

“I truly believe that reproductive health care is essential for women,” she continues. “In wanting to pursue work that’s meaningful, I’ve been driven to research understudied issues.” She adds, “Plus, I’ve always had a fascination with stories and folktales where women are portrayed as warriors. A lot of female veterans are like a modern version of those warriors, especially now that women are allowed to take combat roles.”

CORPORATE DONOR

Washington Research Foundation

Washington Research Foundation Funded its 100th ARCS Foundation Fellowship in 2016

Washington Research Foundation (WRF) was established in 1981 by Tom Cable, Bill Gates, Sr., and Hunter Simpson to assist with the commercialization of technologies coming out of the University of Washington and other nonprofit research institutions in the state. WRF became one of the nation's foremost technology-transfer organizations and created its gift program as a result of this success.

WRF's mission of helping in the delivery of Washington state innovations to serve unmet public needs was reinforced by the formation of WRF Capital, its venture investment arm, in 1995. WRF Capital has since invested more than \$80 million in 68 local life sciences, physical sciences and information sciences, startups and limited partnerships. WRF Capital's investment proceeds provide additional support for the foundation's gift program.

Through its licensing, gift, and investment activities, WRF has returned over \$500 million to the state's research institutions to fund additional research and scholarship.

Leadership at WRF believes that the country's collective future depends on bright minds receiving the formal training they need to unleash their creativity, solve important problems, and contribute to the scientific and engineering academies. ARCS Foundation Seattle's mission and funding model provide pivotal first steps in facilitating this culture of scientific and technological innovation and excellence in Washington state.

Beth Etscheid, WRF's director of research commercialization, says, "Seattle ARCS helps to attract the best and brightest graduate students and keep the state at the forefront of innovation and commercialization. ARCS Foundation's ability to bring the country's top prospects to this area makes this a hugely valuable program and is the primary reason for WRF's continued support."

ARCS LIGHT AWARD

Lynn Thomsen



ARCS Foundation, Seattle Chapter is pleased to present Lynn Thomsen with the 2016 ARCS Light Award, given to a member who has made significant contributions to the chapter. With roles that have included co-chair of the ARCS luncheon, vice president of communications, committee member (four committees), Washington State University (WSU) coordinator, and host of the WSU convocation at her home for 10 years running, Lynn is beyond worthy of this year's award.

Lynn and her husband Mikal established their first ARCS Fellowship in 2005. At the 2006 ARCS Seattle Gala, they announced their intent to fund 10 fellowships over the next 10 years. To date, they have contributed a total of 15 fellowships. In addition, they established a named ARCS endowment at WSU in 2008.

Prior to joining ARCS, Lynn worked in corporate governance at McCaw Communications, where she also met her husband. Now retired, she's founder and board member of StolenYouth, a nonprofit organization that supports the rescue and recovery of our community's exploited youth, and serves on the board of the Seattle Art Museum. She also has volunteered her time and resources to WSU and the Fred Hutchinson Cancer Research Center.

"I love this organization," Lynn says. "I'm proud to be a member, working alongside this powerful, capable and inclusive group of women."

Lynn has given the highest quality of service and is exceptionally deserving of this year's ARCS Light Award.

ARCS LIGHT RECIPIENTS

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Stable, sustained financial support for our graduate students is the goal of the Seattle Chapter of ARCS Foundation. By creating a Named Endowment with a gift of \$100,000 or more, a donor supports new graduate student fellowships in perpetuity at the University of Washington or Washington State University.

Thanks to the extraordinary generosity of the donors listed below, the Seattle Chapter has established 49 endowed Named Fellowships since 1990. Many of these generous donors have benefited from matching funds provided through the UW or WSU.

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ARCS Fellow Isaiah Bolden, UW, Oceanography, with Alexander Gagnon, PhD, Associate Professor of Chemical Oceanography, UW

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