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.

Man explores the universe around him and calls the adventure Science.

— Edwin Hubble
With WSU President Elson Floyd's passing on June 20, 2015, ARCS Foundation lost an avid supporter. In challenging times President Floyd reduced his own salary and yet found matching funds for ARCS endowments. A hosted dinner at the president’s home for ARCS members on their annual WSU visit left members deeply appreciative of the warmth of Elson and Carmento Floyd. Jacque Doane remembers:

“President Floyd’s support was unwavering during my tenure as ARCS President, 2011-2013. He identified with ARCS Foundation’s mission of recruiting exceptional graduate students, and his leadership elevated WSU to a top-tier land grant institution. He successfully completed a $1 billion campaign while garnering bipartisan approval for a WSU medical school. Those who had the honor to meet him will forever miss this kindhearted, special man with his resounding cheer, ‘Go Cougs!’”

We mourn the loss of this galvanizing force in higher education and our friend.

“

He was a great champion of higher education, and his leadership has left an indelible imprint on our state and students for generations to come.”

— Ana Mari Cauce, Interim President, University of Washington

Dear Treasured Supporter,


The luncheon theme encapsulates the journey of ARCS Foundation fellows. It begins with potential, and it is our privilege to assist them in realizing that potential. Your life will expand when you invest in their future, our shared future, because they will discover, deliver and impact our lives. You will feel the impact.

Thank you for your help.

Marcia McGreevy Lewis
President, ARCS Foundation, Seattle
ARCS Foundation supports the power of scientific and technological education to drive positive change in our world. ARCS Foundation National partners with 51 premier US universities to provide financial awards to academically outstanding US citizens pursuing degrees in science, technology, engineering and mathematics (STEM). The Seattle Chapter of ARCS Foundation was founded in 1978 and to date has supported 1,115 fellows with awards totaling more than $15.4 million.

In strategic partnership with the University of Washington and Washington State University, ARCS Foundation Seattle funds PhD students in the STEM disciplines, this year providing approximately $907,500 to 154 fellows. Forty-six of these ARCS Fellowships are supported in perpetuity by named endowments currently holding more than $9.1 million in assets.

ARCS Foundation Seattle 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 in Washington state and around the country testify to the vitality and value of ARCS Foundation’s mission.

Our dedicated and hardworking membership is committed to fostering the success of these truly amazing individuals, the next generation of scientific leaders and innovators.
ARCS Foundation Fellowships provide flexible and 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 NAMED FELLOWSHIP**  
$17,500  
Funds one three-year named fellowship.

**ARCS FOUNDATION SEATTLE ENDOWMENT**  
$100,000  
Funds one named endowment in perpetuity. Matching opportunities may be available through ARCS Foundation Seattle Chapter and the generosity of the University of Washington and Washington State University.

**ARCS FOUNDATION SEATTLE CORPORATE SPONSORSHIPS**  
$2,500 or more  
We are fortunate to have exceptional 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 include 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 more than 15 fellowships of $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.
The Physics Department used the ARCS Foundation Fellowships to recruit students who most likely would have gone elsewhere. We increased the number of women in our entering class by 50% and the number of underrepresented minority students by 20%. These excellent students will have tremendous impact on our teaching, mentoring and research.

— Ann Nelson, Professor and Graduate Recruitment Coordinator, Physics, University of Washington
THIRD YEAR FELLOWS

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<tr>
<th>NAME</th>
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<td>Trevor Avant</td>
<td>Kathleen &amp; Brooks Simpson with Anne Simpson &amp; Charlie Conner</td>
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<td>Kai Chen</td>
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<td>William “BJ” Valente</td>
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<td>Natalia Vanekos</td>
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<td>Edward Wang</td>
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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
- Applied Mathematics
- 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
The UW Department of Biostatistics is one of the most recognized in its field. The faculty and students of the department develop new methods to design and analyze data from clinical trials, observational studies and genomics research. The department maintains collaborative partnerships with the Fred Hutchinson Cancer Research Center, Children’s Hospital Research Institute, Group Health Research Institute and the Veterans Administration and plays an integral role within the UW Schools of Public Health and Medicine. It is a prime recipient of high-profile grants and contracts from NIH, EPA, DOJ and industry sponsors for work developing new biostatistical methodologies and for expertise in leading collaborative coordinating centers for important national research initiatives.

Among the department’s 86 faculty are three members of the Institute of Medicine, one member of the National Academy of Sciences and 20 fellows of the American Statistical Association. Its signature PhD program is consistently rated as one of the top three in the US and includes a strong academic collaboration with the UW’s Statistics Department. ARCS Foundation donors currently support four students in the program. The Biostatistics Department also offers MPH and MS degrees and online certificates in applied biostatistics. Its approach is broad and multidisciplinary, and its 562 alumni hold leadership positions in academia, government and industry around the world.
“The focus of my studies has always alternated between narrow and wide perspectives,” says Connie Tzou. Her educational background bears that out: she earned her degree in biology specializing in microbiology while concurrently pursuing a master’s in public health.

“Now,” she comments, “I feel like I’m coming full circle.” As a second-year PhD student in the Department of Environmental and Occupational Health Sciences at UW, Connie is investigating different aspects of a single issue. Connie is studying a bacteria that is a close relative of tuberculosis. On a micro scale, she’s working on a technique that could help identify the bacteria in untreated water and determine if it’s actively growing. On a macro scale, she’s looking at the same bacteria from a public health standpoint, identifying how people could be exposed in their homes.

A Pennsylvania native, Connie was initially hesitant about moving to the Northwest, but the “welcoming, warm, and collaborative” atmosphere at UW truly inspired her. “The ARCS Fellowship was the cherry on top,” she says. “It was such a great school, and then I was awarded this really prestigious fellowship, which gave me opportunities to engage the public and bond with fellow future leaders in different disciplines.”
Kristen Garofali grew up immersed in science. Her father was a middle school science teacher for 35 years and “kept up with everything in popular science,” she says, adding, “I could see his passion, and it filtered down to me.” Her favorite childhood memories include family camping adventures, gazing at the Milky Way with her dad.

Kristen is still gazing at stars. As a fourth-year PhD student in astronomy at UW, she’s collecting x-rays of faraway galaxies to try to increase understanding of binaries: two stars that orbit, and impact, one another. With greater understanding will come the ability to inform simulations that could eventually affect all areas of astronomy.

Studying stars can be lonely work, and “in academia, it’s easy to become isolated in your field,” says Kristen. “It’s nice to know people care.” She’s particularly grateful to Nancy and Doug Norberg and their daughter Kristin Kenefick, who fund endowments that support her as well as other ARCS Fellows.

Both Nancy and Kristin are ARCS members, and the family to date has funded three ARCS Foundation Seattle Endowments. ARCS provides an opportunity for the Norbergs to support students “who might not otherwise be able to achieve this level of education,” says Doug. “Those student loans are horrendous,” adds Nancy. Doug continues, “We believe in supporting education in general and ARCS Foundation in particular. This is where you can get the most bang for your buck and do the most good.”
“Top professors attract top students, and vice versa,” says ARCS Foundation donor Andrea Thoreson. “It’s important to help our research universities attract the most qualified graduate students from around the country.”

Andrea and her husband Eric, along with Howard Wright and his wife Kate Janeway, fund the ARCS Fellowship for one such top student: Korey Brownstein, a third-year PhD candidate in the molecular plant sciences program at WSU. Korey is investigating how and why figworts, medicinal plants traditionally used to relieve pain and inflammation, produce anti-inflammatory compounds. His hope is to contribute to a greater understanding of medicinal plants and their overall properties.

Korey echoes Andrea’s thoughts when describing the importance of ARCS in his decision to pursue his PhD at WSU. Until his move to Pullman, he’d attended school exclusively in the Midwest. “I knew that WSU was the place that would help me advance my research,” he says, “and the ARCS Foundation funding made the decision to relocate so much easier.”

Howard Wright and Kate Janeway appreciate that ARCS Foundation allows them to support outstanding college scientists like Korey directly. Notes Howard, “This is the next generation of research scientists — the world is going to be a better place because of them, and much of the work they’re doing wouldn’t be possible without ARCS.”
### FIRST YEAR FELLOWS

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<td>Jeannie Nordstrom in Memory of Pepper Payne</td>
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"We see remarkable growth in the confidence and capability of our ARCS students — in part as ARCS Foundation support enhances our ability to recruit the best, but also because of the mentoring that ARCS members provide."

— Guy H. Palmer, Regents Professor of Pathology & Infectious Diseases; The Jan & Jack Creighton Endowed Chair; Senior Director, Paul G. Allen School for Global Animal Health, Washington State University
The Department of Animal Sciences at WSU is engaged in cutting-edge research that benefits the welfare of both humans and animals. Animal Sciences has a long, rich history of addressing critical problems faced by society through basic and applied research and training of career-ready graduates. Its graduates excel in academic and industry settings and continue to solve increasingly complex societal problems. This year the department has 18 scholars working toward the PhD.

The Animal Sciences faculty work across disciplines to contribute to knowledge in agriculture, genetics, genomics, muscle biology, food safety, stem cell use, animal behavior, animal nutrition, environmental science and reproductive biology. These contributions are valued by both those who manage animals and need information regarding appropriate animal well-being and those who are seeking to alleviate human conditions such as genetic susceptibility to disease, infertility, cancer and muscle wasting. WSU animal scientists also work across campus with faculty from the veterinary school, engineering, crops and soils and food science to solve larger societal challenges. Major grant support comes from NIH, USDA and NSF. Faculty include a fellow of the American Dairy Science Association and a recent president of the American Society of Animal Science.

Animal Sciences at WSU is the only program of its kind in the state and is ranked highest in the West by the National Research Council. The department is honored to work with ARCS Foundation Seattle and looks forward to a most productive partnership in educating the students who will answer the critical questions of tomorrow.
Drew Neyens knew early in life that he wanted a career in neuroscience. "Growing up, I just wanted to understand what makes people tick," he says. "Then I discovered I was more interested in the physical process that underlies it — how the brain works."

And that’s exactly what Drew is doing: looking at how the brain works in relation to eating and appetite control. During a meal, most of us are aware of signals being relayed from the gut to the brain to tell us to stop eating. Drew, a second-year PhD candidate in Washington State University’s Department of Integrative Physiology, explains that the hormone leptin increases the brain’s sensitivity to these signals. “A person with higher levels of circulating leptin will feel full sooner,” Drew says. “People who are insensitive to leptin may not know when they’re full,” he adds, a condition that potentially could lead to obesity. “If we can gain a better understanding of this process, down the road we may combat obesity by increasing sensitivity to the signals that are sent from the gut.”

In the meantime, Drew’s work continues — thanks in large part to his ARCS Foundation Fellowship. “I was made to be an ARCS Fellow. It’s been life changing: it holds me to a higher standard of research, creates peace of mind — and provides amazing connections in the scientific community.”
**UW FELLOW 2013-2016 Olivia Telford**

**DEPARTMENT** Astronomy  
**DONOR** Mary Dunnam

"Receiving an ARCS Foundation Fellowship enabled me to pursue my PhD at the UW, where I have had incredible and unique opportunities to engage in cutting edge, interdisciplinary research. The ARCS community is warm and supportive, and it makes a huge difference to know that the members support my work and want to see me succeed."

---

**WSU FELLOW 2013-2016 Zack Frederick**

**DEPARTMENT** Plant Pathology  
**DONOR** Sally Behnke

"ARCS Foundation support helped catalyze my 2,500-mile move across the US and introduced me to a wide circle of aspiring scientists with myriad research interests. This exposure has enriched my understanding of what constitutes the latest and greatest in science."

---

**WSU FELLOW 2014-2017 Brigid Meints**

**DEPARTMENT** Crop & Soil Sciences  
**DONOR** ARCS Foundation Seattle

"Being an ARCS Fellow has allowed me to follow my passion for plant breeding and truly dedicate myself to my science. I am eternally grateful for the foundation’s generosity and hope that someday I can turn around and help support the dreams of other young scientists."

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**UW FELLOW 2014-2017 James Dimond**

**DEPARTMENT** Aquatic & Fishery Sciences  
**DONOR** ARCS Foundation Seattle

"The ARCS Foundation Fellowship allows me the latitude to design and conduct research that I can call largely my own. Funding opportunities for graduate students to conduct independent research are scarce, so I feel very fortunate to have been selected as an ARCS Fellow."
“As an ARCS Fellow, I appreciated the boost I got from talking with members of the organization just as much as I appreciated the financial support,” says Dr. Caroline Herndon. Now a postdoctoral fellow at Harvard Medical School, Caroline received an ARCS Foundation Fellowship from 2006 to 2009 while pursuing her PhD in veterinary science at Washington State University.

Dr. Herndon’s work at WSU, studying the susceptibility of wild and domestic sheep to a strain of pneumonia, was an ideal launching pad for her current research: influenza imaging. Specifically, she’s looking at influenza in mice to see how the virus gets from the lungs to the lymph nodes, with the goal of understanding how the body’s natural immune response starts. The ultimate hope is that this response could be mimicked with a vaccine — with tremendous implications for vaccine design in the future.

Like many ARCS Fellows, Dr. Herndon describes her fellowship as being rewarding in unexpected ways. “I really appreciated that being involved with ARCS Foundation exposed me to people of different backgrounds — donors as well as scholars,” she says. “It was great talking with people who weren’t necessarily involved in veterinary research because they provided really valuable outside perspective.” She adds, “I always came away feeling inspired, and I’m not sure anyone knew how much it meant to me.”
Physio-Control envisions a world in which no person dies suddenly as a result of an acute, treatable medical event. Scientific inquiry and the scientific process are essential to the company's research and development in the medical device industry.

ARCS Foundation’s vision of advancing science in America aligns with Physio-Control objectives. ARCS Foundation’s work helps fuel technological innovation and growth in Washington state’s vital life sciences sector. Physio-Control invites other companies to join it in investing in the work of ARCS Foundation through a corporate sponsorship.

For 60 years, Physio-Control has made lifesaving tools for lifesaving teams — unique medical products of the highest quality that predict or intervene in life-threatening medical emergencies. The company’s decades of innovation have resulted in a series of monitoring, defibrillation, CPR and emergent patient data products that lead the industry and are used by emergency medical services (EMS), first responders, hospitals and care teams around the world.

Brands such as LIFEPAK® monitor/defibrillators and automated external defibrillators (AEDs), the LIFENET® System and LUCAS® Chest Compression System are all part of Physio-Control’s product portfolio. Physio-Control products are sold in more than 100 countries, and the company maintains offices in 17 cities worldwide.

Physio-Control Inc. was one of the Pacific Northwest’s first biotechnology companies. It remains the only US-owned and -based manufacturer of emergency medical response monitors/defibrillators and related equipment. The company is celebrating its 60th anniversary throughout 2015. Seattle Business Magazine named Physio-Control “2015 Washington State Legacy Manufacturer of the Year.”

Lisa received her BS in speech pathology and audiology from the University of Washington and has been a member of ARCS Foundation Seattle since 2005. She has co-chaired the annual luncheon and served as vice president of programs and vice president of membership as well as co-chairing several ARCS field trips. She was a longtime volunteer and trustee of the guardian ad litem and CASA (court appointed special advocate) programs in King County and served on the board of the Mercer Island Boys & Girls Club.

After leaving a career in retail management systems with several local companies, Lisa and her husband Mike built a home in Washington’s San Juan Islands, where they live part-time and enjoy supporting a number of community organizations in the town of Friday Harbor.

“Mike and I have been partners in our support of ARCS Foundation, and we have both found it to be a highlight of our community involvement. I consider ARCS to be an opportunity for wise social investment and one which has been personally rewarding to my family and myself.”

It is typical of Lisa that when she and her husband gave their endowment, they opted to fund another fellowship at the same time because they felt it would take too long for the endowment to spin off the funding for a fellow. That’s Lisa — a shining example of generosity and leadership.
INDIVIDUAL GIFTS

The Seattle Chapter of ARCS Foundation thanks its many donors who made individual gifts between July 1, 2014 and June 30, 2015 (excluding contributions of named endowments and named fellowships, listed on the following page).
DONORS!

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 have each contributed $17,500 over three years to fund and name a fellowship. A named fellowship also provides a donor with a unique opportunity to engage with an individual ARCS Foundation Fellow and to support his or her research.

ENDOWMENTS

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 46 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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