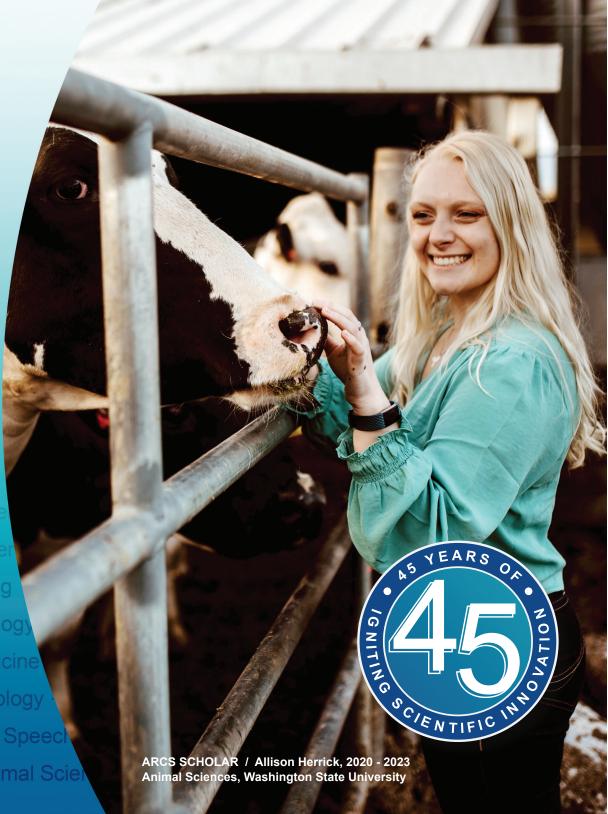


Achievement Rewards for College Scientists

Impact Report

2023

Aeronautics · Animal Science · Astronomy · Bioe
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Neuroscience · Nursing · Oceanography · Pathology
· Pharmacy · Physics · Plant Science · Space · Speech
Speech & Hearing · Statistics · Aeronautics · Animal Science



ARCS Foundation Seattle Chapter

What We Do

ARCS Mission Statement

ARCS Foundation advances science and technology in the United States by providing financial awards to academically outstanding US citizens studying to complete degrees in science, engineering and medical research.

Chapter Vision Statement

The vision of ARCS Foundation Seattle Chapter is for Washington State to be a world leader in scientific excellence and innovation for the betterment of humanity. We are a thriving chapter of members who support research scholars at the University of Washington and Washington State University through well-funded fellowships.

Solidarity Statement

ARCS Foundation Seattle Chapter stands in solidarity with the BIPOC and LGBTQ communities. We are committed to diversity, equity, and inclusion. We commit to use our platform as a catalyst to create lasting change. You may read our full statement of support at www.seattle.arcsfoundation.org



"Since 1978, Seattle ARCS
Foundation has consistently
delivered on our mission to
advance science in America.
Our approach is straight
forward and effective: we
provide unrestricted financial
support to outstanding STEM
graduate students at WSU
and the UW. This investment
has paid off, past, present,
and future. Please join
us in championing the next
generation of scientific talent."

Jenny Wyatt
President
ARCS Foundation Seattle Chapter

Who We Are

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Susan L. Joslyn Noel Schulz

Board member names in bold

Our Partners in Advancing Science

"ARCS Foundation Seattle Chapter has enabled us to provide critical funding to some of our most talented students pursuing degrees in science, engineering, and medical research. Their support has not only helped these students achieve their academic goals but has also empowered them to pursue groundbreaking research that will have a significant impact on society at large."



President, Washington State University





"The health and prosperity of communities here and around the world depend on innovation and discovery by scholars and scientists. For the past 45 years, ARCS Foundation has partnered with the University of Washington to recruit and train generations of researchers who are creating and accelerating impact for the benefit of people everywhere."

Ana Mari Cauce
President, University of Washington

45 Years of Igniting Scientific Innovation

Since 1978:





31% 28% **Events & Annual Giving Endowments \$1M Donor Support** in 2022-2023 12% 29% **Memberships Fellowships**





Seattle Chapter President, Mrs. David E. Skinner, receives the ARCS Charter from Mrs. James LeSage, President, ARCS Foundation, Inc. Left to right: Mrs. John B. Clayburgh, Mrs. LeSage, Mrs. Skinner, Mrs. David E. Wyman, and Mrs. Alva Lane Herd.

On October 10, 1978, a contingent of ARCS Foundation, Inc. members flew to Seattle for the formal presentation of the ARCS Charter to the new SEATTLE Chapter. Mmes. James Le Sage, Alva Lane Herd, John Richardson of the National Executive Board, William Bergin, past president of N.E.B., John Kilroy, Los Angeles Chapter director, and John Clayburgh, director of Los Angeles Chapter and a founding director of the Seattle chapter were guests for luncheon and the meeting at the home of Mrs. Robert Hutchinson . . . Mrs. Clayburgh was co-







"My ARCS Fellowship came at just the right moment to boost my confidence, strengthen my tenacity and get me through the hard and lonely work of invention. For this I have much gratitude."

Albert Greenberg

ARCS Foundation Alumnus '83 and Donor

Vice President of Platform Engineering, Uber

\$16M+
in University
Endowments



50+
University Departments
Supported



"ARCS Foundation introduced me to many wonderful, lifelong friends and also to a long list of scientists dedicated to important research. I am honored to celebrate our 45th year and all we've accomplished together."

Carol Wright *ARCS Founding Member and Donor*



Ways to Give

Advance ARCS Foundation's Mission with a gift of any size

Support an **ARCS Scholar** with a gift of \$22,500

Support Scholars in perpetuity with an **ARCS Endowment** of \$150,000+

Consider **Corporate Partnerships** ranging from \$2,500-\$25,000

Leave a Legacy with a **Planned or Estate Gift**

To learn more about gifts of any kind, please email: information@seattlearcsfoundation.org

www.seattle.arcsfoundation.org





Joshua Woodward

Associate Professor, Microbiology University of Washington

"Our department is consistently ranked among the top 10 in the world," notes Joshua Woodward, associate professor at the UW microbiology department. "You've got Harvard, Stanford, MIT...as one of the top public institutions we don't have the financial resources that private institutions can offer when they're recruiting students."

The Seattle area's high cost of living is well documented, and often a bit of a shock for potential students. Financial support— "a huge part of our recruitment," says Joshua— is just one of the ways ARCS can help the department be more competitive with private schools.

"The networking support is really valuable as well," he continues. "Not just across the campus, but across the entire ARCS organization." And then there are the students themselves. Joshua firmly believes in the power of existing students as a recruitment tool. "Top students bring in other top students," he says. With the added incentive of ARCS Fellowships, the department can attract even more of the best scholars.

Once they're here, they not only benefit the important work of the department, many also go on to benefit Seattle's biotech industry, an important driver of the local economy. "A lot of our students are new to the Pacific Northwest," Joshua comments. "They often fall in love with the city and decide to stay, which builds the biotech network in the city."

UW Departments

ARCS Seattle Chapter supports Scholars in the following departments and schools

College of Arts & Sciences

Applied Mathematics
Astronomy
Biology
Chemistry
Mathematics
Physics
Speech & Hearing Sciences
Statistics

College of Engineering

Aeronautics & Astronautics
Bioengineering (Jointly with
School of Medicine)
Chemical Engineering
Civil & Environmental Engineering
Computer Science & Engineering
Electrical & Computer Engineering
Industrial Engineering
Materials Science & Engineering
Mechanical Engineering

College of the Environment

Aquatic & Fishery Sciences
Atmospheric Sciences
Earth & Space Sciences
Environmental & Forest Sciences
Oceanography
Quantitative Ecology & Resource
Management (QERM)

Graduate School (Interdisciplinary)

Molecular & Cellular Biology
Neuroscience

School of Dentistry

Department of Oral Health Sciences (includes DDS/ PhD and PhD degree programs)

School of Medicine

Bioengineering (Jointly with School of Medicine) Genome Sciences Medical Scientist Training Program (MD/PhD) Microbiology

University of Washington



Turtle May

ARCS Scholar 2021 - 2024

Environmental & Forest Sciences

University of Washington

"Indigenous communities feel the impacts of environmental issues disproportionately," says second-year ARCS Fellow Turtle May. She's working with the Confederated Tribes of the Colville Reservation on an environmental issue that's become all-too-familiar in the western United States: wildfires.

"They've been experiencing a lot more wildfires over the past six years," she notes. "And they're a sovereign nation, with less government oversight and fewer restrictions, so they can do more to address environmental issues with natural resources." Turtle, who is Cherokee, is evaluating what's working and what's not in the efforts to minimize the impacts of wildfires when they occur.

And her research has the potential to influence forest management far beyond the northeast reaches of Washington state. She'll soon be presenting her work to the Intertribal Timber Council, attended by tribal members from across the country.

Turtle is grateful to be continuing her studies at the UW, among the country's top 10 schools for environmental sciences and forestry. But, she says, "I wasn't prepared for the extremely high cost of living in Seattle." She credits ARCS as playing a role in her decision to enroll. "I had some options I was considering but ARCS was the icing on the cake," she comments. "The additional support, the interest in me and what I wanted to do...those were the deciding factors."

School of Nursing Nursing Sciences

School of Pharmacy

Health Economics and Outcomes Research Medicinal Chemistry Pharmaceutics

School of Public Health

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



"To address the challenges within our communities and across the globe, we need to nurture new ideas and inspire creative solutions. By giving to graduate education, ARCS Foundation Seattle Chapter is investing in the next generation of scientists, researchers and scholars, who will tackle complex problems to build a healthier and more equitable world."

Joy Williamson-Lott

Dean of the UW Graduate School



Kelly Brayton

Chair, Veterinary Microbiology and Pathology Washington State University

"It comes down to money," says Kelly Brayton, chair of WSU's department of Veterinary Microbiology and Pathology. She's speaking of recently graduated Doctors of Veterinary Medicine (DVMs), who typically conclude those studies with a substantial amount of debt. "We're seeking students to pursue PhDs after their DVMs—to do research," she continues, "but the difference between what they can make in the job market and graduate stipends is just too great."

That's where ARCS makes a difference. "Being able to offer ARCS Fellowships is really useful in our recruitment efforts." Kelly notes.

The department, which has a focus on infectious disease and has an international reputation for its vector-borne disease studies, is also looking to grow and expand diversity across its programs. "We're looking to increase opportunities to get the best students, and we see ARCS as a key part of that," Kelly comments.

Those students are vital to continuing the important work of the department—which includes studies of tick-borne diseases, such as Lyme disease, and others that affect both humans and livestock. One of the studied livestock pathogens results in losses of over \$300 million per year in the US alone. A breakthrough would have huge impacts globally. And with the added tool of ARCS Fellowships, the department can continue to attract the top scholars who can help make such a breakthrough happen.

WSU Departments

ARCS Seattle Chapter supports Scholars in the following departments and schools

College of Agriculture, Human & Natural Resources Science

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

College of Arts & Sciences Chemistry

Voiland College of Engineering & Architecture

Chemical Engineering and Bioengineering Electrical Engineering and Computer Science

College of Veterinary Medicine

Global Health Molecular Biosciences Integrative Physiology and Neuroscience Veterinary Clinical Sciences Veterinary Microbiology and Pathology

Washington State University



Allison Herrick

ARCS Scholar 2020 - 2023 Animal Sciences, Washington State University

Dairy is in Allison Herrick's blood. Growing up on a dairy farm owned by her aunt and uncle in upstate New York, she watched her father work as a herdsman and wanted to learn more. She joined 4-H at age 8, won a calf at age 10 and started her own herd shortly thereafter. Through those experiences, she says, "I fell in love with the dairy industry."

After completing her undergrad in animal and dairy science at Cornell University in 2020, Allison began considering schools for her postgraduate work. "I wasn't really looking at anything beyond the East Coast," she notes.

ARCS was a key factor in her decision to continue her studies at WSU. She toured and knew it felt great—but the cross-country move gave her pause. Then she learned of the ARCS program. "It was the last, final step," she says. "I knew WSU was the right fit."

Now a third-year Fellow, Allison is studying cattle genetics, specifically disease and genomic selection, which can help predict the future performance of an individual animal based on DNA. Her work could make a big difference for dairy farmers—like her aunt and uncle—who work with tight financial margins. Ultimately, she hopes to work with producers on breeding programs, helping to ensure that investments are cost-effective and offer increased return.

"WSU deeply appreciates the ARCS Foundation's tireless commitment to supporting the advancement of science through graduate education. Doctoral students are critical to the success of our research mission. Our students' research helps fulfill our land-grant mission, and ARCS enriches the student experience through its mentoring and networking opportunities."

Elizabeth Chilton
Chancellor & Provost of WSU Pullman



ARCS Endowed Fellowship Donors

ARCS Foundation Seattle Chapter is grateful to the following donors who have established ARCS Endowed Fellowships with contributions ranging from \$75,000 to more than \$150,000. ARCS Endowed Fellowships support ARCS Scholars in perpetuity at the University of Washington and Washington State University. The (#) indicates the number of scholars supported over time.

Gladys Harrington in honor of Eve Alvord
ARCS Endowed Fellowship (22nd, 23rd & 27th)
Loch Anderson & Allyn Perkins (6th)
Loch Anderson & Allyn Perkins II (7th)
Aven Foundation ARCS Endowed Fellowship (6th)
Rosa Ayer ARCS Endowed Fellowship (11th)
Becky & Jack Benaroya ARCS Endowed Fellowship (17th & 18th)
Bobbie & Richard Berkowitz ARCS Endowed Fellowship in
Nursing Science
Nicole A Roand ARCS Endowed Fellowship (5th)

Nicole A. Boand ARCS Endowed Fellowship (5th)
Alicia and Jeff Carnevali in Honor of Sophia R. Carnevali
ARCS Endowed Fellowship (3rd)

Alicia & Jeff Carnevali ARCS Endowed Fellowship in Oceanography (3rd)

Doris L. Carnevali ARCS Endowed Fellowship in Nursing (3rd) Rick & Jacque Doane ARCS Endowed Fellowship (6th) Emer Dooley & Rob Short ARCS Endowed Fellowship (5th) Micki E. & Robert J. Flowers ARCS Endowed Fellowship (9th & 10th)

Jeff & Jana Foushée Family ARCS Endowed Fellowship (5th) Jeff & Jana Foushée Family ARCS Endowed Fellowship, Second (3rd)

Cindy & Stan Freimuth ARCS Endowed Fellowship
Margery S. Friedlander ARCS Endowed Fellowship (8th)
Bill & Melinda Gates Foundation ARCS Endowed Fellowship (4th)
Carmen & Carver Gayton ARCS Endowed Fellowship
William & Ruth Gerberding ARCS Endowed Fellowship (12th)
Vicki & Gary Glant ARCS Endowed Fellowship (10th & 11th)
Vicki J. & Thomas W. Griffin in Honor of Paige & Griffin Thoreson
ARCS Endowed Fellowship (8th)

Ronald & Darlene Howell ARCS Endowed Fellowship, UW Ronald & Darlene Howell ARCS Endowed Fellowship, WSU Mark A. Jones ARCS Endowed Fellowship (5th-6th)

Kristin N. Kenefick ARCS Endowed Fellowship (2nd)

Kristin N. Kenefick & Nancy P. Norberg

ARCS Endowed Fellowship (3rd & 4th)
K. J. "Gus" & Connie Kravas ARCS Endowed Fellowship
Lisa & Mike Losh ARCS Endowed Fellowship (7th)

Margaret Allison, Anne Simpson & Charlie Conner - MAC Consortium ARCS Endowed Fellowship (7th & 8th)

Lynn Manley & Lex Lindsey - Chisholm Foundation
ARCS Endowed Fellowship (13th)

Lynn Manley & Lex Lindsay - Chisholm Foundation Second ARCS Endowed Fellowship (14th)

Keith & Mary Kay McCaw Family Foundation ARCS Endowed Fellowship (14th-21st) Keith & Mary Kay McCaw Family Foundation ARCS Endowed Fellowship, Second

Pamela H. & Donald W. Mitchell ARCS Endowed Fellowship in Nursing Science (5th,7th-8th)

Pamela H. & Donald W. Mitchell Second ARCS Endowed Fellowship in Nursing Science (6th)

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Jim & Trish Rogers ARCS Endowed Fellowship (7th)

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Lynd & Robert Taylor ARCS Endowed Fellowship
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Walker Family ARCS Endowed Fellowship (12-13th)
Washington Research Foundation ARCS Endowed Fellowship

UW (132nd,135-137th)

Washington Research Foundation ARCS Endowed Fellowship

Washington Research Foundation ARCS Endowed Fellowship

Washington Research Foundation ARCS Endowed Fellowship WSU (133rd-134th)

Michael & Marti Young ARCS Endowed Fellowship (3rd)
John W. & Elaine A. Zevenbergen, Sr. ARCS Endowed Fellowship
(34th & 36th)

Nancy & John Zevenbergen ARCS Endowed Fellowship (37th) Zevenbergen Captial Investments ARCS Endowed Fellowship (32nd, 33rd & 35th)

ARCS Fellowship Donors

ARCS Foundation Seattle Chapter is grateful to the following donors who have given \$17,500 to support an ARCS Scholar commencing a Fellowship in 2021, 2022, or 2023. The (#) indicates the number of scholars supported by the donor over time. Donors sharing a fellowship are listed together.

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Karyl & Elias Alvord (4th & 6th)
Loch Anderson & Allyn Perkins (6th)
ARCS Light in honor of Kitti Lile
ARCS Light in honor of Marcia McGreevy Lewis
ARCS Seattle Chapter in honor of Cindy and Stan Freimuth
ARCS Seattle Chapter in honor of Mary Kay McCaw
ARCS Light in honor of Carmen Gayton
Patty & Jimmy Barrier - Mani Barrier (7th)



Lyndi and Bob Taylor with ARCS Scholar Evan Domsic at WSU's Breadlab.

Margaret Breen and Stewart Landefeld (4th)
Karen Cameron in Honor of Kevin Cameron

Geri & Chris Carlson

Sandra & Kent Carlson (5th)

Rhea & Clark Coler with ARCS Foundation

Mary Dunnam (6th)

Lindsay Eberts & Patti Paxton Eberts (2nd) with ARCS Foundation Alice Gautsch Foreman (1st) with Missy & Kurt Zumwalt (2nd)

Kathy Fraser (4th) with Sally & David Wright (4th)

Alden Garrett & Charles Eriksen

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Cheryl & David Hadley (4th)

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Lynn Manley & Lex Lindsey - Chisholm Foundation

Fellowship (15th)

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Judy Rogers (2nd) - Floyd Rogers Memorial

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Lyndi and Bob Taylor with ARCS Foundation

Washington Research Foundation (128th-131st)

WSU Graduate School
Jenny & Scott Wyatt (4th) with Debbi & John Wilson (4th)
WSU Chancellor
WSU Vice Provost for Graduate and Professional Education

Zevenbergen Capital Investments (33rd-35th)

ARCS Individual Contributions between July 1, 2022-June 30, 2023

ARCS Foundation is grateful to the following donors who have contributed individual gifts between July 1, 2022 and June 30, 2023. Please note that if you have contributed a Fellowship or Endowed Fellowship, your name is excluded from the list below.

Above \$10,000

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Judy Rogers with ARCS Scholars at the WSU site visit to Pullman.

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Iris & Ted Wagner

Liz Welch

Jennifer West Higgins & John Higgins

Alice & Ernest Weymuller

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Howard S. Wright, III & Kate Janeway Wright



Kitti Lile and Karen Beaudry with ARCS Scholars at the UW's wələb?altxw Intellectual House.

\$500-\$999

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Carolyn Cairns Jennie Carter

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Paula Szkody & Don Brownlee Kathryn Terry Joel Thornton Ann Trimble **Dorothy Urban** Allison Webel

Kathleen Whitson Colleen & George Willoughby

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ARCS Scholars at the

Annika Kerr Lisa & Jim King Carla Lewis Elinore McKenzie Phil White & Susan Mersereau Barb Moe

Susan Albrecht

Janelle Blakely

Christie Cotterill

Amy Crownover Betsy DiPasquale & Sandy Downing

Ryan Durkan Rick Edmark

Emily Feicht Jody Foster & John Ryan

Traci Goodwin

David Houk

Sarah & Charlie Jaquet

Kate Kilgour Diana Knight Diane Knoll

Annual Luncheon.



Dorothy L. Simpson ARCS Foundation Seattle Chapter Leadership Award

Established in 2018 in honor of Dorothy Lewis Simpson (1924-2018), this award recognizes an ARCS Scholar with exceptional qualities of leadership, intellectual curiosity, and dedication to the greater good.

Brenden Fraser-Heylin

ARCS Scholar 2019 - 2022 Chemical & Bioengineering Washington State University

We are proud to name Brenden Fraser-Hevlin as the 2023 Dorothy L. Simpson Leadership Award recipient. Brenden earned his BS degree in Bioengineering from Oregon State University. He is now a PhD candidate at the WSU Voiland School of Chemical Engineering & Bioengineering with an emphasis on cancer immunotherapy. His research includes design of a new centrifugal bioreactor (CBR) to culture cells for cancer treatments. Brenden is a major contributor on a patent for unique technologies incorporated within the CBR prototype design. As part of university-wide training, he is implementing new models that allow for simulation and prevention of cyberattacks on sensors connected to the CBR.

Brenden is committed to achieving scientific discoveries that will ultimately transform the field of cancer care. He also inspires undergraduate students to continue their future careers as engineers and scientists. Throughout his studies, Brenden has mentored several undergraduate students who are members of groups underrepresented in STEM fields. Congratulations Brenden!



Achievement Rewards for College Scientists

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

information@seattlearcsfoundation.org www.seattle.arcsfoundation.org



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