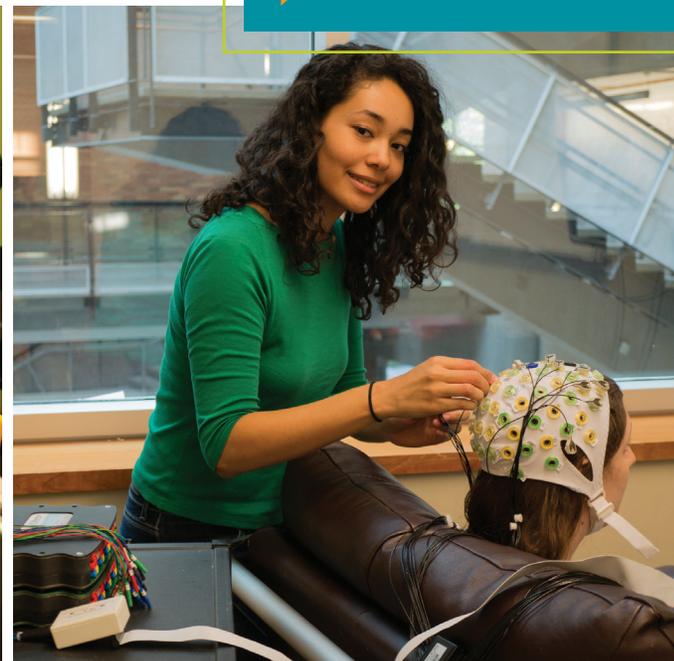


# ARCS

FOUNDATION

Achievement Rewards for College Scientists

> Discover. Deliver. Impact.



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



## Contents

President’s Message and a Tribute to  
 Elson S. Floyd ..... 1

Seattle Chapter: Success by the Numbers ..... 2

Your Investment Fosters Discovery  
 and Drives Innovation ..... 3

University of Washington Fellows ..... 4

Washington State University Fellows ..... 10

In Their Own Words ..... 13

Where Are They Now? ..... 14

Corporate Donor; ARCS Light Award ..... 15

Donors ..... 17

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 (from left): ARCS Fellows Aaron Walsman, UW, Computer Science & Engineering; Nile Wilson, UW, Bioengineering; and Paul Milhalyov, WSU, Molecular Plant Sciences

“Man explores the universe around him and calls the adventure Science.”  
 — Edwin Hubble

## 2015-2016 ARCS Foundation, Seattle Board of Directors

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	Diana A. Ackerley		
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	Jana Foushée		

# ARCS Foundation Loses Advocate Elson S. Floyd, PhD | 1956 - 2015

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,

Discover. Deliver. Impact.

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

# Seattle Chapter — Success by the Numbers

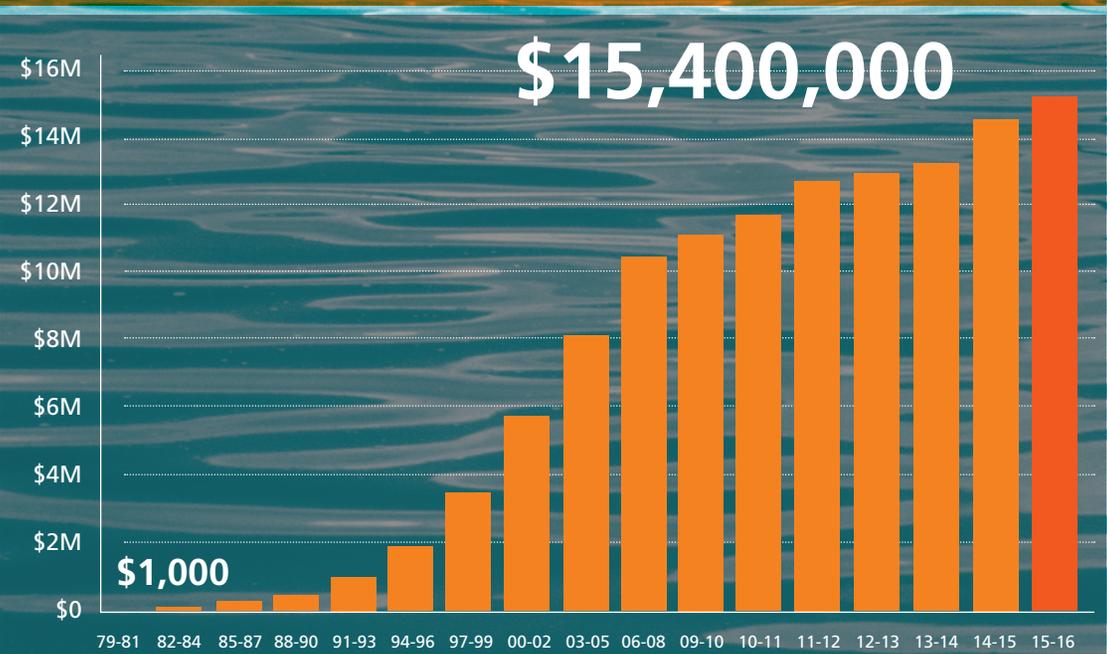
ARCS Foundation supports the power of scientific and technological education to drive positive change in our world. ARCS Foundation National partners with 51 premier US universities to provide financial awards to academically outstanding US citizens pursuing degrees in science, technology, engineering 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.

## Seattle Chapter Cumulative Giving (FY 2015-16)



## Seattle Chapter Endowments (FY 2015) Growing a Strong Future for Science



## Your Investment Fosters Discovery and Drives Innovation

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](mailto: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](mailto:information@seattlearcsfoundation.org)

Website: [www.seattlearcsfoundation.org](http://www.seattlearcsfoundation.org)

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



# FELLOWS

## UNIVERSITY OF WASHINGTON

### FIRST 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	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	Environmental & Forest Sciences
Juhye Lee	ARCS Foundation Seattle	MD/PhD - Genome Sciences
Kelsey Maass	Dorothy Lewis Simpson ARCS Endowment	Applied Mathematics
Eric Machado	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	Catherine & David 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
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 American Lung Association ARCS Endowment	MD/PhD - Immunology
Aaron Walsman	Jan Brzana & Brian Lent	Computer Science & Engineering
Elizabeth Wicks	Walker Family ARCS Endowment	Mathematics
Rapheal Williams	Margaret Breen & Stewart Landefeld	Neuroscience/GO-MAP
Jon Zaloumis	UW Graduate School Diversity	Earth & Space Sciences/GO-MAP

### SECOND 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	Aeronautics & 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	Carlyn & George 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
Kira Hicks	Harriett & John Morton	Physics/GO-MAP
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
Tsegasselassie Workalemahu	Kathleen & David Eaton with Julie Barbo & Mark Maghie	Epidemiology/GO-MAP

“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

NAME	DONOR	FIELD OF STUDY
Trevor Avant	Kathleen & Brooks Simpson with Anne Simpson & Charlie Conner	Aeronautics & Astronautics
Sylvia Badon	Cheryl & David Hadley	Epidemiology
Gabby Barsh	Brookshire-Green Foundation	MD/PhD - Molecular & Cellular Biology/GO-MAP
Ken Chen	Keith & Mary Kay McCaw Family ARCS Endowment	MD/PhD - Pathology
William Chen	Eleanor & Charles Nolan	Quantitative Ecology & Resource Management
Erin dela Cruz	Washington Research Foundation	MD/PhD - Molecular & Cellular Biology
Gabriel Dorfsman-Hopkins	Candice Rosenberg Peterson ARCS Endowment	Mathematics/GO-MAP
Mike Doud	Zevenbergen Capital Investments LLC	MD/PhD - Genome Sciences
Samuel Entwisle	Tina & Karl Neiders with Susan & William Potts	Molecular & Cellular Biology
Jacqueline Garrick	Jim & Nancy Woods	Environmental & Occupational Health Sciences
Dennis Goulet	Eve & Chap Alvord	Pharmacy
Laura Kehrl	Virginia M. Dickenson Memorial ARCS Endowment	Earth & Space Sciences
Rochelle Kelly	Emer Dooley & Rob Short	Biology/GO-MAP
Bethany Kondiles	Marlene & John Durbin	Neuroscience
Krithika Manohar	Vicki & Gary Glant ARCS Endowment	Applied Mathematics
Sophia Masi	Ginger & Barry Ackerley Foundation	MD/PhD - Chemistry/GO-MAP
Tim Mesikepp	ARCS Foundation Seattle	Mathematics
Ana Ordonez	Chisholm Foundation ARCS Endowment	Atmospheric Sciences/GO-MAP
Jacob Ortega-Gingrich	ARCS Foundation Seattle	Applied Mathematics/GO-MAP
Pavel Panchekha	Washington Research Foundation	Computer Science & Engineering
Andre Perkins	Nancy Mee & Dennis Evans	Atmospheric Sciences/GO-MAP
Anna Plantinga	Gladys Harrington ARCS Endowment in Honor of Eve Alvord	Biostatistics
Travis Scholl	Barbo Family	Mathematics
Aaron Seo	Julie Tall ARCS Endowment	MD/PhD - Molecular & Cellular Biology
April Shen	Christensen O'Connor Johnson Kindness	Computer Science & Engineering
Cassandra Simonich	MAC Consortium ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Melissa Steele-Ogus	Vicki & Thomas Griffin	Biology
Eric Teeman	Washington Research Foundation	Materials Science & Engineering
Olivia Telford	Mary Dunnam	Astronomy
Michael Tillotson	Fairway Fund ARCS Endowment	Aquatic & Fishery Sciences
Connie Tzou	ARCS Foundation Seattle	Environmental & Occupational Health Sciences
William "BJ" Valente	Hussey Family	MD/PhD - Pathology
Natalie Vandeven	Jean B. Viereck	MD/PhD - Pathology
Edward Wang	John W. & Elaine A. Zevenbergen, Sr.	Electrical Engineering

## 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

### GRADUATE SCHOOL (INTERDISCIPLINARY)

- Molecular & Cellular Biology
- Neuroscience
- Pathobiology
- Quantitative Ecology & Resource Management (QERM)

### 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

### 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

### COLLEGE OF THE ENVIRONMENT

- Aquatic & Fishery Sciences
- Atmospheric Sciences
- Earth & Space Sciences
- Environmental & Forest Sciences
- Oceanography

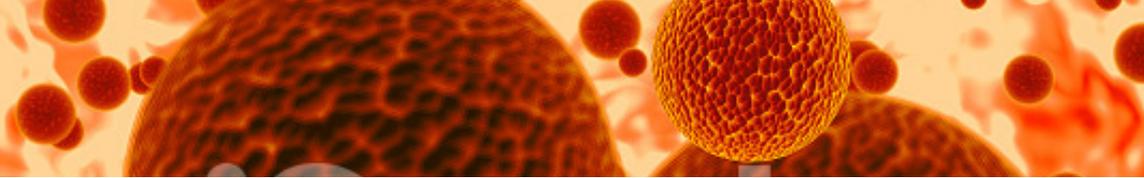
### SCHOOL OF PHARMACY

- Medicinal Chemistry
- Pharmaceutics
- Pharmacy

### SCHOOL OF PUBLIC HEALTH

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





UNIVERSITY OF WASHINGTON

Department of Biostatistics

An ARCS Foundation-Supported Program

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.

UW SPOTLIGHT

# BIOSTATISTICS



From left: ARCS Fellows Anna Plantinga, Kelsey Grinde and Natalie Gasca, UW, Biostatistics

UW FELLOW 2013-2016

## Connie Tzou

DEPARTMENT Environmental & Occupational Health Sciences

DONOR ARCS Foundation Seattle



“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.”

UW FELLOW 2012-2015

## Kristen Garofali

DEPARTMENT Astronomy

DONORS Nancy and Doug Norberg, Kristin N. Kenefick



From left to right: Doug and Nancy Norberg, Kristen Garofali, Kristin Kenefick

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.”

WSU FELLOW 2013-2016

## Korey Brownstein

DEPARTMENT Molecular Plant Sciences

DONORS Howard Wright and Kate Janeway, Andrea and Eric Thoreson



From left to right: Eric and Andrea Thoreson, Korey Brownstein, Kate Janeway and Howard Wright

“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.”

# FELLOWS

## WASHINGTON STATE UNIVERSITY

### FIRST YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Christal R. Clements	Lynn & Mikal Thomsen ARCS Endowment	Veterinary Microbiology and 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

### SECOND YEAR FELLOWS

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

### THIRD YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Korey Brownstein	Andrea & Eric Thoreson with Katherine Janeway & H. S. Wright III	Molecular Plant Sciences
Zack Frederick	Sally Behnke	Plant Pathology
Andrea Garfinkel	Seattle Chapter ARCS Light in Honor of Micki Flowers	Plant Pathology
Kathy Helling	ARCS Foundation Seattle	Chemical Engineering & Bioengineering
Aileen Helsel	ARCS Foundation Seattle	Molecular Biosciences
Jessica Higginbotham	ARCS Foundation Seattle	Veterinary Science
Tessa Lecuyer	Blaze Barrier	Veterinary Science
Adan Medina	ARCS Foundation Seattle	Chemical Engineering & Bioengineering
Paul Mihalov	ARCS Foundation Seattle	Molecular Plant Sciences
Craig Nes	Lynn & Mikal Thomsen	Veterinary Science
Drew Neyens	Eve & Chap Alvord	Veterinary Science
Elena Skorniyakov	Jeannie Nordstrom in Memory of Pepper Payne	Veterinary Science
Nicole Tautges	Catherine Mee	Crop & Soil Sciences



“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



## 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 ARCHITECTURE AND ENGINEERING

Chemical Engineering and Bioengineering

### ■ COLLEGE OF VETERINARY MEDICINE

Global Animal Health (GAH)  
Molecular Biosciences  
Integrative Physiology & Neuroscience  
Veterinary Clinical Sciences  
Veterinary Microbiology & Pathology

## WASHINGTON STATE UNIVERSITY

### Animal Sciences

## An ARCS Foundation-Supported Program

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.

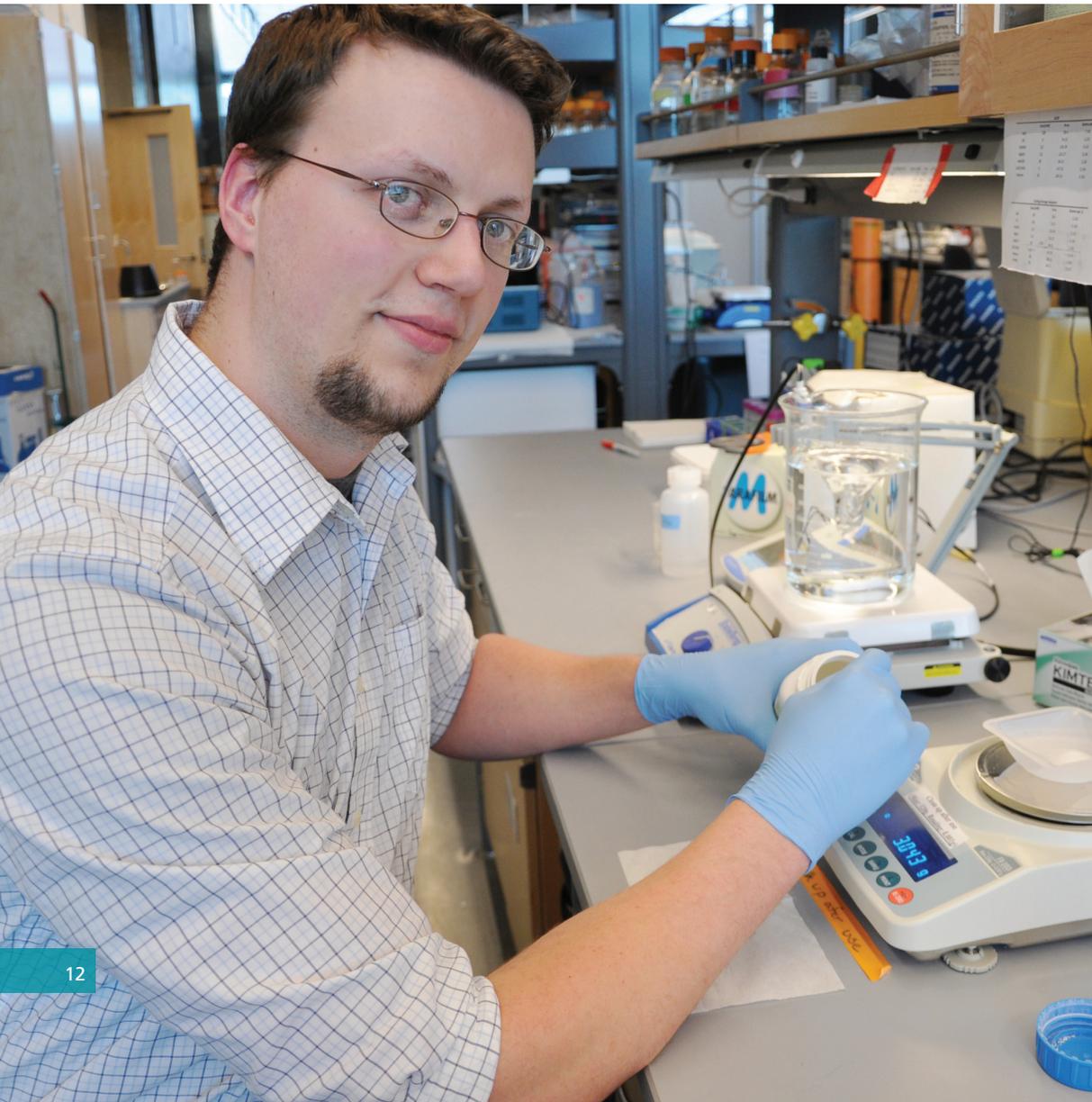
Animal Sciences at WSU is the only program of its kind in the state and is ranked highest in the West by the National Research Council. The department is honored to work with ARCS Foundation Seattle and looks forward to a most productive partnership in educating the students who will answer the critical questions of tomorrow.

WSU SPOTLIGHT...



DEPARTMENT Integrative Physiology and Neuroscience

DONORS Eve and Chap Alvord



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."

# In Their Own Words

## 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.”

## 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.”

## Where Are They Now?

### Caroline Herndon, PhD

WSU ARCS FELLOW 2006-2009

DONOR Bobbie LaGasa Fowler



"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

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 Losh



### ARCS LIGHT RECIPIENTS

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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

# THANK YOU

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).

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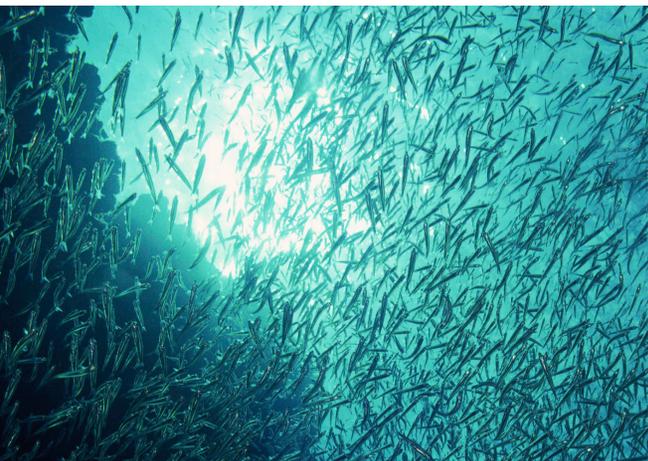
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