



# ARCS

Achievement Rewards for College Scientists

# 2011

Advancing Science in America

Aeronautics & Astronautics . Applied Mathematics . Astronomy . Atmospheric Sciences . Aquatic & Fishery Sciences . Biology . Biostatistics . Center for Reproductive Biology . Chemical Engineering . Chemistry . Civil & Environmental Engineering . Computer Science & Engineering . Crops & Soils . Earth & Space Sciences . Electrical Engineering . Environmental Health . Epidemiology . Public Health Genetics . Industrial Engineering . Institute for Biological Chemistry . Mathematics . Materials Science & Engineering . Mechanical Engineering . Medical Scientist Training Program . Medicinal Chemistry . Molecular & Cellular Biology . Molecular Plant Sciences . Neurobiology & Behavior . Nursing . Nutritional Sciences . Oceanography . Pathobiology . Pharmaceuticals . Pharmacy . Physics . Quantitative Ecology & Resource Management . Reproductive Biology . Statistics . Veterinary Clinical Sciences . Veterinary and Comparative Anatomy, Pharmacology and Physiology . Veterinary Microbiology and Pathology

“Discovery consists of seeing what everybody has seen,  
but thinking what nobody has thought.”  
— Albert Szent-Gyorgi

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

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### MESSAGE FROM THE SEATTLE CHAPTER PRESIDENT

Since 1978, the Seattle Chapter of ARCS Foundation has awarded graduate fellowships to outstanding United States citizens completing PhD degrees in science, engineering and medical research at the University of Washington and Washington State University. Over \$12.2 million has been contributed by the Seattle Chapter to talented students pursuing their dreams to solve the scientific challenges facing our world today. These monies have given our state’s research universities a competitive edge as they recruit the nation’s finest doctoral candidates to their premier programs.

Research conducted at the University of Washington and Washington State University will continue to have a significant impact locally, nationally and globally. ARCS scholars address compelling research topics, teach and mentor undergraduates, and also attract and energize world-class faculty. In today’s increasingly competitive global economic climate, the startling evidence that U.S. world leadership in science and engineering is declining makes support of the ARCS mission crucial.

It is said that our economic future rests in ideas that incubate in our research institutions. These ideas will be generated by the best and the brightest young scientists. As we celebrate the 2011 ARCS Fellows, please consider partnering with us to sustain the vitality of our state’s scientific presence by making an investment in the next class of outstanding doctoral candidates who will expand the frontiers of science. The return on your investment has great promise, both in scientific advances and economic development.

Sincerely,  
*Jacquie Doane*  
JACQUE DOANE  
President





## THIRTY-THREE YEARS OF ADVANCING SCIENCE IN AMERICA™

The Seattle Chapter of ARCS Foundation was founded in 1978 as part of ARCS Foundation National, a group of over 1,700 visionary women in 17 chapters around the United States who encourage the worldwide advancement of science and technology by funding scholar awards for undergraduate and graduate students in the areas of science, engineering and medical research.

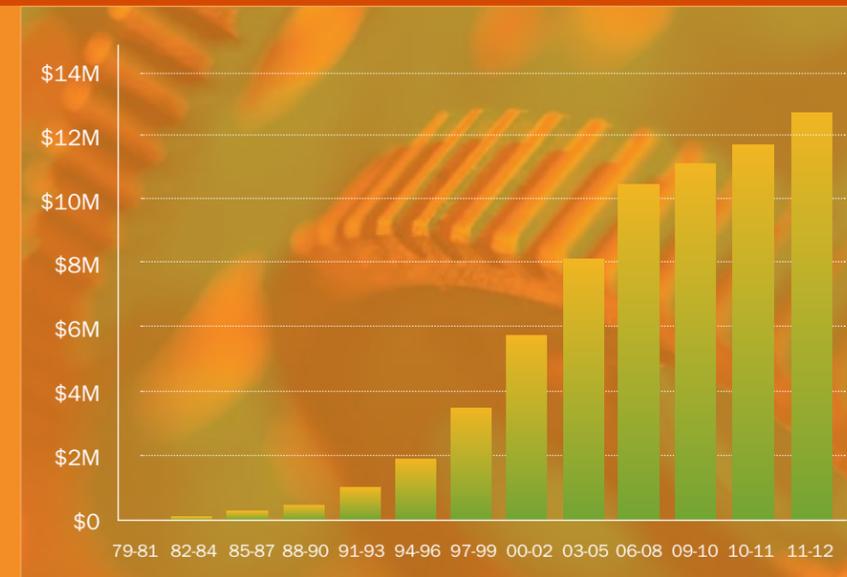
Motivated by a unique combination of social consciousness, intellectual curiosity and generosity, ARCS Foundation has awarded nearly \$78.6 million in awards to 13,653 scholars at 52 universities nationwide.

A dynamic, committed membership has made the Seattle Chapter one of the most successful in the nation, and both the UW and WSU view

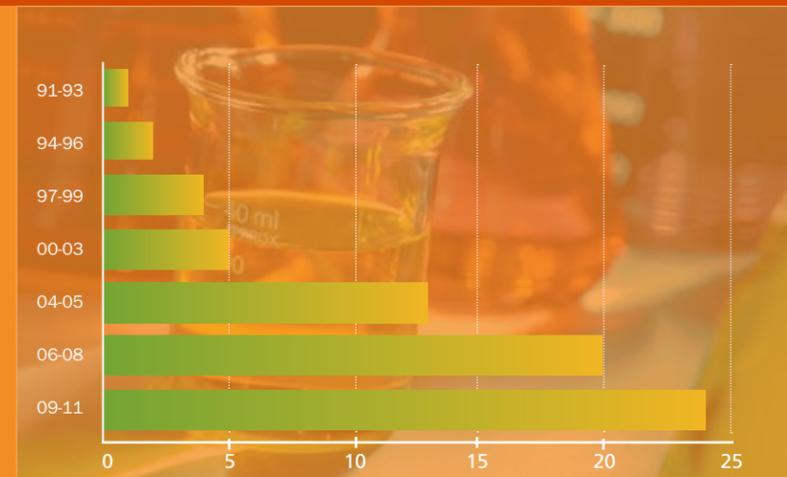
their relationship with ARCS Foundation as a strategic partnership. The Seattle Chapter has been part of the University of Washington community for 33 years and Washington State University for over 11 years; its annual funding of scholars has grown from \$1000 in the first year to over \$600,000 in 2011.

In 1990, the Seattle Chapter initiated a matching fund strategy to create endowments to fund ARCS Foundation Fellowships. As a result, generous donors to the Seattle Chapter have utilized matching funds from the UW and WSU to create 24 endowments of more than \$100,000 each. Through these Endowed Named Fellowships, a donor can support ARCS scholar awards in perpetuity.

CUMULATIVE GIVING (FY 1979-2011)



ENDOWMENT HISTORY (Number of Endowments FY 1991-2011)



## DONATE TO ARCS!

### HELP A YOUNG SCIENTIST REACH FOR THE STARS

Please join us in supporting our state's vibrant intellectual and scientific community with a gift to the Seattle Chapter of ARCS Foundation. Your gift will support the best of our nation's science and engineering graduate students, and is an opportunity to impact America's scientific and economic future.

Gifts of any size are greatly appreciated and will help support our scholars. There are also special opportunities to fund Named Fellowships as detailed below.

**FUND AN ARCS FOUNDATION FELLOWSHIP \$17,500**

Funds one scholar's Fellowship for three years.

**ENDOW AN ARCS FOUNDATION FELLOWSHIP \$100,000**

Funds one Endowed Fellowship in perpetuity.

#### MATCHING OPPORTUNITIES

Through the generosity of the UW and WSU, any donor wishing to create an Endowed ARCS Foundation Fellowship will be entitled to matching funds. Please contact us to learn more about this worthwhile opportunity.

TO LEARN MORE ABOUT HOW YOU CAN MAKE A GIFT, PLEASE CONTACT THE SEATTLE CHAPTER AT:

Seattle Chapter  
ARCS® Foundation, Inc.  
Private Mailbox 429  
4616 25th Avenue N.E.  
Seattle, WA 98105

E-mail: [information@seattlearcsfoundation.org](mailto:information@seattlearcsfoundation.org)  
Website: [www.seattlearcsfoundation.org](http://www.seattlearcsfoundation.org)

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## MESSAGE FROM THE PRESIDENT OF THE UNIVERSITY OF WASHINGTON

Dear ARCS Members,

The University of Washington's partnership with the Seattle Chapter of ARCS Foundation remains a vital and valued alliance. Thanks to ARCS' exceptional commitment to graduate education and its enterprising funding model, the University continues to recruit, retain and graduate top-tier scholars and leaders in science and technology, men and women who will play critical roles in our future.

ARCS Foundation Fellowships are among the UW's most effective resources, providing annual financial support of more than \$600,000. Over the years, ARCS donors have created 22 endowed fellowships at our institution while continuing to advance our shared quest to fulfill America's need for scientists and engineers — a high priority during this new era of globalization, domestic economic concerns and increased international academic competition. We are definitely not alone in recognizing the potential gains from today's investment in graduate education.

As I begin my first school year at the UW, I am honored to thank you for your remarkable legacy of philanthropy. The synergy fostered by your generosity, leadership and intellectual curiosity is leading to innovation and discoveries with the potential for huge positive impacts on many fronts. I commend you on the extraordinary opportunities and achievements made possible by your support.

Sincerely Yours,

  
MICHAEL K. YOUNG  
President



## 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  
Chemical Engineering  
Civil & Environmental Engineering  
Computer Science & Engineering  
Electrical Engineering  
Industrial Engineering  
Materials Science & Engineering  
Mechanical Engineering



### COLLEGE OF THE ENVIRONMENT

School of Aquatic & Fishery Sciences  
School of Oceanography  
Earth & Space Sciences  
School of Forest Resources  
Atmospheric Sciences

### GRADUATE SCHOOL (INTERDISCIPLINARY)

Molecular & Cellular Biology  
Neurobiology & Behavior  
Pathobiology  
Quantitative Ecology & Resource Management (QERM)

### SCHOOL OF MEDICINE

Medical Scientist Training Program (MSTP)

### SCHOOL OF NURSING

### SCHOOL OF PHARMACY

### SCHOOL OF PUBLIC HEALTH

Biostatistics  
Environmental Health  
Epidemiology  
Institute for Public Health Genetics



## Graduate Program in Neurobiology and Behavior

### An ARCS Foundation-Supported Department

In 1996, with the goal to develop top neuroscientists to advance the understanding of human learning, memory and behavior, the University of Washington established an interdisciplinary psychology and pharmacology-oriented curriculum now known as the Graduate Program in Neurobiology and Behavior (GPNB).

GPNB training draws from a variety of topics, techniques and perspectives, and includes over 120 faculty members from more than 20 different departments within the School of Medicine, College of Arts and Sciences and College of Engineering — their collaborative efforts crossing traditional boundaries. This interdisciplinary approach to teaching and research is a major reason the University of Washington is one of the top public research institutions in the country.

Ten to twelve top-caliber PhD students are annually selected for GPNB admission, with ARCS Foundation Seattle Chapter Fellowships often playing a key role in their recruitment. The work of these dedicated young neuroscientists has already improved our understanding of the neurobiology of degenerative diseases like stroke, and has enormous potential to uncover important insights into our sensory system and other neurodegenerative and psychiatric disorders.

UW SPOTLIGHT

# FELLOWS

## UNIVERSITY OF WASHINGTON

### FIRST YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Tolulope Abe	Althea Stroum ARCS Endowment	Industrial Engineering
Caroline Bennette	Marmie & Jeremy Stamper	Pharmacy
Kevin Bielawski	North Coast Electric Company	Mechanical Engineering
Jackie Corbitt	Chisholm Foundation ARCS Endowment	Physics
Michael Duyzend	Marcia McGreevy Lewis & Robert D. Lewis, M.D.	MD/PhD - Genome Sciences
Anna Engstrom	Debbi & John Wilson with Jenny & Scott Wyatt	Environmental Health
Musetta Chang-Chi Fu	UW Nursing Recognition Fellowship- Dean Marla Salmon	Nursing
Alexandra Grier	The Barbo Family	MD/PhD - Immunology
Jakob Kotas	Washington Research Foundation	Applied Mathematics
Daisy Krakowiak-Redd	Alida & Christopher Latham	Epidemiology
Elena Latorre-Esteves	Micki & Robert Flowers ARCS Endowment	Molecular & Cellular Biology
John Lee	Harriett & John Morton	Physics
Max Libbrecht	Washington Research Foundation ARCS Endowment	Computer Science & Engineering
Bradley Markle	Betty Bottler	Earth Space & Sciences
Alexander McAvo	Carol Wright	Mathematics
Andrea McQuate	Carmen & Carver Gayton	Neurobiology & Behavior
Maximo Menchaca	Gerald J. Baldasty Diversity	Atmospheric Sciences
Edward Michor	Candice Rosenberg Peterson ARCS Endowment	Chemical Engineering
Caitlin Milligan	Lynn & Mikal Thomsen	MD/PhD - Immunology
Alipi Naydenov	Keith & Mary Kay McCaw Family ARCS Endowment	MD/PhD - Neurobiology & Behavior
Kiva Oken	Washington Research Foundation	Quantitative Ecology & Resource Management
Paneen Petersen	Graduate School Diversity	Epidemiology
Stephanie Rosse	Sroufe-Barnes Family	Public Health Genetics
Joseph Sanchez	Phyllis Wise	Molecular & Cellular Biology
Michael Schwendeman	Virginia M. Dickenson Memorial ARCS Endowment	Civil Engineering
Liza Shoenfeld	Nora & Allan Davis	Neurobiology & Behavior
Anna Simpson	Pendleton & Elisabeth Carey Miller Charitable Foundation	Forest Resources
Mary Solbrig	Washington Research Foundation	Mathematics
Lisa Taylor-Swanson	ARCS Light in honor of Janet McNae	Nursing
Michael Tremmel	Jean Chisholm Lindsey Memorial Fellowship	Astronomy
Caroline Weller	Betty Lou & Irwin Treiger	Chemistry
William Chad Young	Zevenbergen Capital Investments LLC	Statistics

### SECOND YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Maria Agapova	The Barbo Family	Pharmacy
Eric Alcidi	Washington Research Foundation Fellowship in honor of Calvert Knudsen and Julia Lee	MD/PhD - Molecular & Cellular Biology
Carolyn Auchter	Eve & Chap Alvord in honor of Elias Chapman Alvord III	Physics
Lara Backman	Jill & William Ruckelshaus	Molecular & Cellular Biology
Heather Barnett	Margaret Breen & Stewart Landefeld	MD/PhD - Neurobiology & Behavior
Bridget Bertoni	Washington Research Foundation	Physics
Chloe Bracis	Lee & Mike Brown	Quantitative Ecology & Resource Management
Peter Caday	The Walker Family ARCS Endowment	Mathematics
Alison Fohner	Lynn Pigott Mowe in honor of Yvonne Pigott	Public Health Genetics
Claire Gonzalez	Zevenbergen Capital Investments LLC	Molecular & Cellular Biology/GO-MAP
Frances Hocutt	Washington Research Foundation	Materials Science & Engineering
Michael Karcher	ARCS Seattle Chapter Fellow	Statistics
Sam Kaufman	ARCS Seattle Chapter Fellow	Computer Science & Engineering
Pamela Kohler	Ruth & William P. Gerberding ARCS Endowment	Nursing
Akash Kumar	Vicki & Gary Giant ARCS Endowment	MD/PhD - Genome Sciences
John LaMacchia	Eleanor & Charles Nolan	MD/PhD - Molecular & Cellular Biology
Sharon McRae	Anne Simpson & Charlie Conner with Kathy & Brooks Simpson	Nursing/GO-MAP
Alison Mehravari	Mary Dunnam	Neurobiology & Behavior
Hilary Palevsky	ARCS Seattle Chapter in honor of Anne Zubko	Oceanography
Edith Pierre-Jerome	Nancy Mee & Dennis Evans	Biology
Diana Pietri	Marlene & John Durbin	Forest Resources
Lara Pracht	MAC Consortium ARCS Endowment	Civil & Environmental Engineering
Kyle Rector	Becky & Jack Benaroya ARCS Endowment	Computer Science & Engineering
Jeff Rutter	Christensen O'Connor Johnson Kindness	Quantitative Ecology & Resource Management
Erica Sanchez	Nora Davis & Lorraine Monick	Molecular & Cellular Biology/GO-MAP
Stephanie Seaman	Vicki Griffin, Marnie Briggs, Carol Briggs, Andrea Thoreson, Barbara Kirk	Neurobiology & Behavior
Daniel Shapero	Candice Rosenberg Peterson ARCS Endowment	Applied Mathematics
Megan Stachura	Camille & Jim Uhlir ARCS Endowment	Aquatic & Fishery Sciences
Matthew Strathman	Althea Stroum ARCS Endowment	Electrical Engineering
Carolyn Valdez	Joanne & Bruce Montgomery ARCS Endowment	Chemistry
Nicole Van Abel	Jim & Nancy Woods	Environmental Health
Sunniva Zaratkiewicz	Becky & Jack Benaroya ARCS Endowment	Nursing



### THIRD YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Olga Afanasiev	The Stevens Family	MD/PhD - Pathology
Russell Berg	Althea Stroum ARCS Endowment	MD/PhD - Molecular & Cellular Biology
Katie Brempelis	Jean Chisholm Lindsey Memorial Fellowship	Pathobiology
Anna Brosius	Washington Research Foundation	MD/PhD - Genome Sciences
Francine Buckner	Sandra C. Carlson & Julie Tall	Nursing
Alex Cayco-Gajic	Eve & Chap Alvord	Applied Mathematics
Hilary Hayford	Betty Bottler	Biology
Joseph Hiatt	The Barbo Family	MD/PhD - Genome Sciences
KathJo Jankowski	Washington Research Foundation	Aquatic & Fishery Sciences
Megan Karalus	The PACCAR Foundation	Mechanical Engineering
Nemiah Ladd	Lisa & Mike Losh Family	Oceanography
Daniel Leventhal	Jeffrey P. Bezos	Computer Science & Engineering
Christopher McMurdie	Kathy & Richard Petrait	Mathematics
Amit Misra	Nancy & Doug Norberg ARCS Endowment	Astronomy
Rebecca O'Connor	Linda & Tony Whatley	Nursing
Gallia Painter	The Nick & Leslie Hanauer Foundation	Atmospheric Sciences
Laurel Peelle	Camille & Jim Uhlir ARCS Endowment	Forest Resources
Glennis Rayermann	Washington Research Foundation	Chemistry
Kristin Beima-Sofie	Carllyn & George Steiner ARCS Endowment	Epidemiology
Sarah Swarts	Alta & Stan Barer	MD/PhD - Immunology



## Mary Kay McCaw

"Various friends of mine have children afflicted with diseases such as cystic fibrosis, Huntington's and juvenile diabetes," says Mary Kay McCaw, "or parents suffering with dementia or Alzheimer's. This sparked my interest in genetic research." Compassion for these friends prompted Mary Kay to generously fund an ARCS Endowment at the University of Washington last year.

The Seattle Chapter of ARCS Foundation is committed to the long-term future of its funding, and endowments are an important element. A fully-funded Named Endowment promises that a new graduate student is funded for three years on a continuous basis in perpetuity. Since 1999, 24 ARCS Foundation Named Endowments, including Mary Kay's, have been established at the University of Washington and Washington State University.

ARCS Endowments help ensure that bright minds will continue to focus on diseases that are currently considered incurable, and on other scientific issues facing our world. "We have some extremely talented students who struggle to keep going, but with just a little help many of them can continue to passionately pursue their research," says Mary Kay. What does she hope will be the potential outcome of her endowment? The answer is simple. "To help retain talented students in their fields of study, working toward cures."

The quality of the Graduate Program in Neurobiology and Behavior is definitely enhanced by our ability to offer ARCS Fellowships to star applicants, and we are most grateful to the Seattle Chapter of the ARCS Foundation for providing us with this valuable recruitment tool.

— DR. ELIOT BRENOWITZ, CO-DIRECTOR, UW GRADUATE PROGRAM IN NEUROBIOLOGY AND BEHAVIOR





## Daniel Leventhal

Everyone knows that major motion picture studios work movie magic. Actors appear to fly by digitally “erasing” the rigging that suspends them in midair, for example. But altering the images captured by a video camera is expensive and time-consuming — and is usually reserved for studios with big budgets.

Daniel Leventhal is trying to change that. In the third year of a Jeff Bezos-funded ARCS Foundation Fellowship in computer science and engineering at the University of Washington, Daniel is working on a new video-editing tool. This tool will allow independent and amateur videographers to remove unwanted objects from their films, providing small filmmakers the same ability to create “magic” currently reserved for major studios.

Daniel’s interest is computational photography — how computers and math can be applied to enhance, augment or combine video in new ways. “It’s great because I get to do programming and math, and I get pretty pictures at the end of the day,” he jokes.

But computational photography problems require high caliber cameras. “I couldn’t begin to afford the equipment on my own,” he says, “but my ARCS money allows me to purchase what I need to continue my work. The financial support,” he enthuses, “has been really great.”

## Carolyn Valdez

“It’s like we’re experimenting with the earth, putting in more carbon dioxide than ever before,” says Carolyn Valdez. “It doesn’t feel right, and it’s my generation’s responsibility to do something.”

In her second year of an ARCS Foundation Endowed Fellowship at the University of Washington donated by Joanne and Bruce Montgomery, Carolyn is pursuing a PhD in inorganic chemistry. Her focus is electron transfer. “By understanding how charges move in materials, we can make photo electric cells more efficient and possibly cheaper,” she says, “and maybe create energy sources that are carbon neutral.”

Carolyn’s interest is in a metal oxide in the form of a nanoparticle. “Metal oxides are natural semiconductors,” she says. Their ability to absorb light generates energy in solar cells, and this could help replace traditional fuels that are expensive and polluting. Metal oxide applications currently use thin layers of film, but nanoparticles may be a better choice because of their large surface area. “More surface equals more efficiency,” Carolyn explains.

Carolyn appreciates her ARCS Foundation funding because it allows her to focus on the research, teaching and mentoring that are profoundly important to her. “I want to spread the word about educational opportunities,” she says. “That it’s possible to be part of the solution.” Thanks to ARCS Foundation, she is doing just that.



## MESSAGE FROM THE PRESIDENT WASHINGTON STATE UNIVERSITY

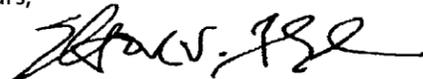
Dear ARCS Members,

You play an indispensable role in promoting graduate education at Washington State University, and for that you have my sincere gratitude. Your generosity has made it possible for many promising and talented students to pursue their academic ambitions, and your continued support is fundamental to our mission to advance knowledge through innovative research. It is through this cutting-edge research that we can enhance the economy of our state, nation and world, and improve the quality of life for all people.

Our partnership with the Seattle Chapter of ARCS Foundation allows us to broaden the reach and impact of WSU's leading doctoral programs. As you continue to expand your commitment to WSU through the Endowed Fellowship in the School for Global Animal Health and the addition of the Department of Plant Pathology, we are able to extend that global impact.

WSU is honored to be part of the 33-year tradition of the Seattle Chapter of ARCS Foundation. Your success is our success and, on behalf of Washington State University and our many ARCS Fellows, we thank you for your continued vision and commitment to our collective future.

Sincerely yours,



ELSON S. FLOYD, PhD  
President



## WASHINGTON STATE UNIVERSITY FELLOWSHIP SUPPORT AREAS

The Seattle Chapter of ARCS Foundation currently supports WSU students in the following departments:

### COLLEGE OF AGRICULTURAL AND NATIONAL RESOURCE SCIENCES

Molecular Plant Sciences  
Crop & Soil Sciences  
Plant Pathology

### COLLEGE OF VETERINARY MEDICINE

Veterinary Microbiology & Pathology  
Neuroscience  
Veterinary & Comparative Anatomy,  
Pharmacology & Physiology (VCAPP)  
Veterinary Clinical Sciences  
School for Global Animal Health



## Department of Plant Pathology

### A New ARCS Foundation-Supported Department

Using environmentally-friendly and sustainable strategies to protect crops from destructive diseases, and helping ensure food security and safety for people around the world, WSU's Department of Plant Pathology is the 8th WSU department approved to receive ARCS funding.

The department is one of the largest and most comprehensive plant pathology graduate programs in the country and plays a central role in WSU's internationally-renowned, multi-disciplinary plant sciences program. This multi-disciplinary approach seeks to solve some of the grand challenges facing the human population: sustainably feeding our expanding global populations, providing alternative biofuel sources and mitigating negative environmental impacts within the context of changing climate conditions.

WSU's plant pathology faculty members conduct both fundamental and applied research that is well-integrated into the graduate curriculum. They study all major groups of pathogens that cause disease in plants — fungi, bacteria, viruses and nematodes — and their research and extension efforts benefit a wide range of crops from apples to wheat, in both organic and conventional production systems.

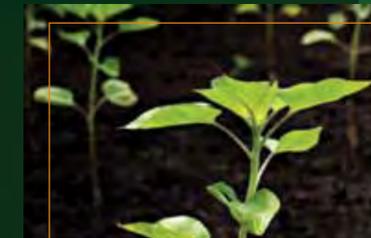
The Seattle Chapter of ARCS Foundation is pleased to add the Department of Plant Pathology to the growing list of funded departments at WSU.

## Puget Sound Energy

A proud partner of ARCS Foundation since 2009, Puget Sound Energy shares the belief that supporting dedicated students today will advance science and technology tomorrow. As Washington state's oldest local energy utility, PSE is not only dedicated to supporting community activities where it serves and operates, it is the largest utility-owner of renewable energy sources in the Northwest. The Seattle Chapter Board of ARCS Foundation experienced a first-hand look at this commitment during a PSE-hosted tour of the utility's innovative Renewable Energy Center at the Wild Horse Wind and Solar Facility near Ellensburg.

"Workforce development is critical to our mission of providing safe and reliable electric and natural gas service to our customers," says Kimberly Harris, PSE president and CEO. "From climate change, to renewable energy development, to protecting salmon and other wildlife, there is vast opportunity for the next generation of scientists and engineers to make a difference."

With more than 1 million electric customers and 750,000 natural gas customers in 11 Washington counties, PSE and its employees have a long history of community involvement. Over the past five years in King County alone, PSE corporate giving and donations from the Puget Sound Energy Foundation have totaled more than \$3 million to charitable organizations. For more information, visit [PSE.com](http://PSE.com) and [PSEFoundation.org](http://PSEFoundation.org).



# FELLOWS

## WASHINGTON STATE UNIVERSITY

### FIRST YEAR FELLOWS

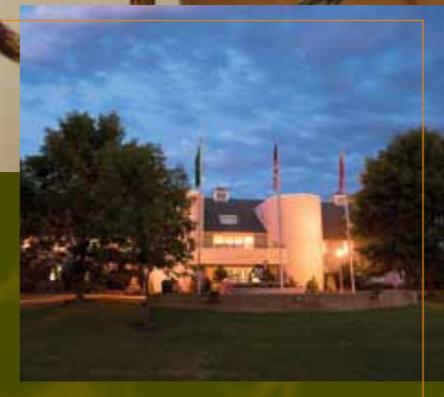
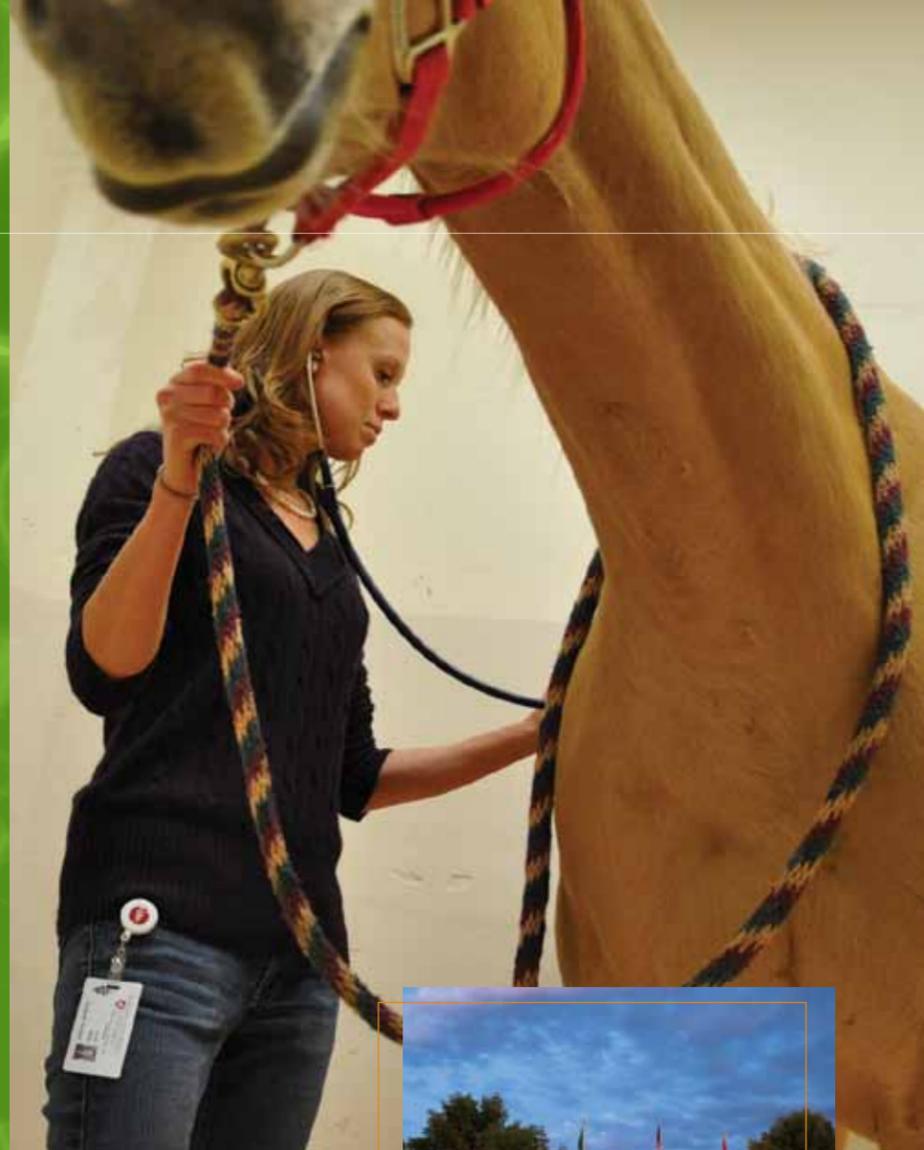
NAME	DONOR	FIELD OF STUDY
Aaron Agostini	ARCS Seattle Chapter Fellow	Plant Pathology
Lindsay Fry	Trish & Jim Rogers	Veterinary Science
Michael Gonzalez	ARCS Seattle Chapter Fellow	Veterinary Science
Kimberly Honn	WSU President's Award	Veterinary Science
Benjamin Kilian	ARCS Seattle Chapter Fellow	Molecular Plant Science
Nevin Lawrence	WSU Graduate School	Crop & Soil Sciences
Gracen Smith	ARCS Seattle Chapter Fellow	Molecular Plant Science
Jacquelyn Stone	Lynn & Mikal Thomsen	Veterinary Science/GAH
Jonathan Wachter	Amy & Matt Rudolf	Crop & Soil Sciences

### SECOND YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Sierra Beecher	ARCS Seattle Chapter in honor of Sandra Carlson	Molecular Plant Science
Ryan Boyd	Brookshire-Green Foundation	Molecular Plant Science
Margaret Highland	Brainerd Family	Veterinary Science
Allison James	Lynn & Mikal Thomsen	Veterinary Science/GAH
Erik Landry	Catherine Mee	Crop & Soil Sciences
Diana Short	Sally Behnke	Veterinary Science
Lauren Wise	Blue Barrier	Veterinary Science

### THIRD YEAR FELLOWS

NAME	DONOR	FIELD OF STUDY
Carrie Schmidt	Lynn & Mikal Thomsen ARCS Endowment	Veterinary Science
David Favero	Lynn & Mikal Thomsen	Molecular Plant Science
Claire Huntsberry	Jacque & Rick Doane	Veterinary Science



Our ARCS Fellows impact the globe with their innovative, problem-solving research in infectious diseases, plant and animal protection, and sustainable agriculture. This land grant university's research is aimed squarely at contributing solutions to the great challenges facing our planet — and our ARCS Fellows are on the front line of these research efforts. //

— DR. HOWARD GRIMES, VICE PRESIDENT FOR RESEARCH, DEAN OF THE GRADUATE SCHOOL, WASHINGTON STATE UNIVERSITY

## David Favero

The rampant use of fossil fuels around the world has sobering implications for our environment — but David Favero's research into a new biofuel could help reduce that dependence. Working toward a PhD in molecular plant sciences at Washington State University, David's Endowed ARCS Foundation Fellowship was funded by Lynn and Mikal Thomsen. The plant that captures his interest, camelina, could become a new alternative energy source.

Camelina isn't a food plant and doesn't require much space to grow, making it an attractive biofuel. But it would require irrigation in arid climates, so David is investigating enhancing camelina's ability to adapt to harsh growing conditions at the genetic level, by using a research plant related to camelina, the Arabidopsis. Arabidopsis contains proteins that can bind DNA, meaning it's possible to change how its genes are expressed and, ultimately, what properties the plant exhibits. David hopes his research with Arabidopsis will ultimately lead to camelina becoming a new energy resource.

David's enthusiasm for ARCS is genuine. "I think ARCS is awesome," he says. "I love attending the annual luncheon and meeting the people who provide the funding. I can practice explaining my research to a lay audience. I don't get to do that often, and it's important."



## Carrie Schmidt

E. coli has been in the news regularly since 1993, when hundreds were sickened after eating tainted beef; the recent outbreak in Germany was even more severe. Carrie Schmidt, pursuing a PhD in veterinary science at Washington State University and recipient of an ARCS Foundation Fellowship, is looking at a new way to reduce E. coli outbreaks.

"I'm trying to prevent cattle from becoming infected at all," says Carrie. "If we can stop infections from happening, we can make the food supply safer and reduce the economic impact on farmers."

Carrie is manipulating environmental microfauna — protozoa — in the cattle's water troughs, trying to find strains of protozoa that will eat the bacteria that are harmful to humans. Once those strains are identified, farmers could add the protozoa to their herds' water troughs, potentially eliminating harmful E. coli bacteria before they are ingested by cattle.

It was Carrie's interest in agriculture and dairy cattle that led her to WSU. "WSU is known for its work on food-borne diseases and the global food supply," she comments. "There aren't many schools that focus on that, especially in large animals like cattle."

She adds that her ARCS Foundation funding "allowed me to go into research fulltime and do something I'm really interested in. I'm very grateful."



## Jennifer Ruesink, ARCS Alum

"That little yellow kayak led me to where I am now — studying one of the major global threats to the ocean environment," says Dr. Jennifer Ruesink. Now an associate professor in the Department of Biology at the University of Washington, Jennifer was pursuing her PhD in zoology at the UW in 1992 when an ARCS Foundation Fellowship made possible the purchase of a yellow kayak. She used it to access remote, wave-tossed areas on the outer coast of Vancouver Island, studying how Pacific oysters were — or weren't — invading the coastline. "It was my first research vessel!" she laughs.

Those same Pacific oysters have an amazing ability to escape from cultivation and are now found up and down the West Coast. Jennifer still studies them, but in an entirely new way; a current project focuses on ocean acidification as one hypothesis for a six-year gap in wild oyster reproduction in Willapa Bay. "Acidification is a major threat to the world's ocean health," Jennifer notes, and shell-forming organisms serve as "the canary in the coalmine" for ocean acidification, providing sound insight into the impact of changes in ocean chemistry.

"With that yellow kayak, ARCS fostered my access to a dynamic ecosystem, and therefore my curiosity about the oysters that are now providing a wealth of information regarding our changing oceans," she concludes.



## ARCS LIGHT AWARD

Every year, the Seattle Chapter of ARCS Foundation selects a member who has made a significant contribution to the success of the chapter as recipient of its ARCS "LIGHT" Award. This year the chapter is honoring Janet McNae, and a Fellowship has been named in her honor.

Janet has been a member since 2003 and has chaired the annual luncheon and served as VP of Programs and of Membership. She has also been active in the community raising funds for Treehouse and for Direct Relief International.

After retiring from her own antiques and design business, Janet moved with her husband to a permanent home they built on Whidbey Island, where she now enjoys gardening, entertaining and travel. She is also involved with the Whidbey Island Center for the Arts and with Whidbey Island Nourishes, providing lunches for local schoolchildren.

"The value of ARCS Foundation today is greater than ever," says Janet. "In a rapidly changing world, ARCS Foundation helps our universities address these changes through research and education. We help fund outstanding graduate students who are making important contributions to the quality of life for our state and nation."

"It has been my privilege to be associated with ARCS Foundation, and I look forward to helping the accomplished women of ARCS continue their mission."

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The Seattle Chapter of ARCS Foundation thanks its many donors who are supporting Fellowships in the 2011-2012 academic year. These contributions allow the University of Washington and Washington State University to recruit and support the most outstanding graduate students.

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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 scholar and to support his or her research.

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The Seattle Chapter of ARCS Foundation is committed to providing stable financial support for our graduate students. A donor may create an Endowed Named Fellowship with a gift of \$100,000 or more. By creating an endowment, a donor supports new graduate student Fellowships in perpetuity at the UW or WSU. Thanks to the extraordinary generosity of the donors listed below, the Seattle Chapter has been able to establish 24 Endowed Named Fellowships since 1990. Most of these generous donors have benefited from matching funds from the State of Washington, University of Washington and Washington State University.

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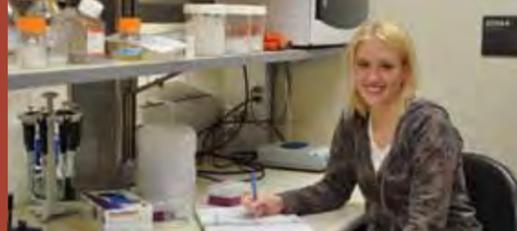
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