

E.R. Jackman Friends and Alumni Highlights

CAS 2017-18

1. CAS Beginning Researcher Program: sponsored by funds from ER Jackman Friends and Alumni and the College of Agricultural Sciences

<https://agsci.oregonstate.edu/academic-programs/undergraduate-research/2018-summerfall-beginning-researchers-support-program>

ERJFA first began funding the Beginner Researcher Program in 2016. Since then the Program has funded over 39 students, with 16 different faculty mentors, across seven departments.; several projects are located at Branch Experiment Stations. Six of these students went on to receive Continuing Researcher funds from the Agricultural Research Foundation and we expect more of them to apply when ready for a semi-independent research project.

The objective of the Beginning Researchers Support is to enable undergraduates to explore research experiences under the guidance of a faculty researcher. This funding supports research opportunities for undergraduates who are engaging in formal research for the first time. While open to all undergraduate students in the College of Agricultural Sciences, freshmen, sophomores, and first-year transfer students are especially encouraged to apply.

\$8,250 of funding for 11 students with 9 faculty across 6 departments in Summer 2017.

Faculty Name	Faculty Department	Project Title	Student
Massimo Bionaz	Animal and Rangeland Sciences	Effect of milk on bone growth	Angel Torres
Massimo Bionaz	Animal and Rangeland Sciences	Pharmacokinetics of 2,4-thiazolidinedione in lactating goats	Trynity Alvarez
Michelle Kutzler	Animal and Rangeland Sciences	Use of Platelet Rich Plasma for the Treatment of Subclinical Endometritis in Beef Heifers	Elizabeth Puttman
Chet Udell	Biological and Ecological Engineering	Wireless Sensor-Actuator Network for Building the "Internet of Agriculture"	Thomas DeBell
Linda Hardison	Botany Plant Pathology	Developing interactive plant identification tools	Cameron Ross
Javier Fernandez-Salvador	Crop and Soil Science	A Needs Assessment Survey of Small Farms in the Mid-Willamette Valley	Erin Wever
Don Lyons	Fisheries and Wildlife	Comparing the reproductive success of urban and rural Western Gulls along the Oregon coast	Alayna Lawson
Ivan Arismendi	Fisheries and Wildlife	Field guide of aquatic insects at the HJ Andrews Experimental Forest	Carolyn Coyle
Ivan Arismendi	Fisheries and Wildlife	Effects of extreme droughts in aquatic food webs	Anisa Garcia

Stephen Brandt	Fisheries and Wildlife	Impacts of the environment on albacore tuna feeding and growth	Megan McGill
Ryan Contreras	Horticulture	Determining chromosome number of seedlings in segregating maple populations	Gwenyth Alanko

\$7,000 of funding for 6 students with 5 faculty across 4 departments in Fall 2017.

Faculty Name	Faculty Department	Project Title	Student
Don Lyons	Fisheries and Wildlife	Comparing the reproductive success of urban and rural Western Gulls along the Oregon coast	Alayna Lawson
Linda Hardison	Botany and Plant Pathology	Developing interactive plant identification tools	Cameron Ross
Ivan Arismendi	Fisheries and Wildlife	Field guide of aquatic insects at the HJ Andrews Experimental Forest	Carolyn Coyle
Javier Fernandez-Salvador	Crop and Soil Science	Determining the Educational Needs of Beginner Latino Farmers in Oregon Part 1: Assessment of the existing and future community	Jose Ortega
Javier Fernandez-Salvador	Crop and Soil Science	Feasibility of olive (<i>Olea europaea</i>) production in the Willamette Valley: evaluation of cold hardiness	Jose Ortega
Chet Udell	Biological and Ecological Engineering	Wireless Sensor-Actuator Network for Building the "Internet of Agriculture"	Tom DeBell
Ivan Arismendi	Fisheries and Wildlife	Using a signal-detection method on scale readings to age Coastal Cutthroat Trout	Lia Clark

\$10,500 provided for salary for 13 students with faculty across 7 departments in Winter/Spring 2018.

Faculty Name	Faculty Department	Project Title	Student Chosen
Chet Udell	Biological and Ecological Engineering	Digital Greenhouse: Development and Deployment of Kinetic Sensor System	Lars Larson
Chet Udell	Biological and Ecological Engineering	Building and Deploying Wireless Environmental Sensor Stations in HJ Andrews Research Forest	Miranda Nelson
Cherre Bezerra Da Silva	Horticulture	Rearing Beneficial Tiny Wasps to Control Agricultural Pests	Rebecca Whitlock
Javier Fernandez-Salvador	Crop and Soil Science	Small Farms Needs Assessment Part 2: Interviews with Small Farmers	Erin Wever
Javier Fernandez-Salvador	Crop and Soil Science	Effects of Soil Preparation Techniques and Native Cover Crops on Strawberry. Part 1: Field Establishment	Tessa Barker
Javier Fernandez-Salvador	Crop and Soil Science	Small Farms Needs Assessment Part 2: Data Transcription and Analysis	Jessica Logan Hailey
Heather Stoven	Yamhill County Extension	Best Production Practices for Olives in Oregon. Part 1: An Evaluation of Propagation and Up-plotting Techniques	Tessa Barker
Susanne Brander	Environmental and Molecular Toxicology	Multigenerational effects of hormone disrupting chemicals in fish	Jordan Laundry
Christina Hagerty	Botany and Plant Pathology	Assessment of soil acidity on yield-limiting wheat pathogens of the Columbia Basin	Lynze Schonneker
Don Lyons	Fisheries and Wildlife	Multi-species assessment of cormorant attendance and productivity at Yaquina Head Outstanding Natural Area	Makenzie Weber
Linda Hardison	Oregon Flora Project, Botany and Plant Pathology	Developing interactive grass identification tools	Christopher Royce
Michelle Kutzler	Animal and Rangeland Sciences	Luteinizing hormone receptor-mediated cell proliferation, migration, and invasion in canine lymphoma	Camryn Flint
Melanie Link-Perez	Botany and Plant Pathology	Bringing a molecular solution to a conservation problem: can DNA sequence data help recovery efforts for the endangered Gentner	Robert Main
Neil Bell	Horticulture	Best Production for Olives in Oregon. Part 2: Evaluation of Winter Cold Damage Participatory Research with Growers	Tessa Walker

2. Internship/Research Financial Support Program. Funded by ER Jackman Friends and Alumni

The objective of the E.R. Jackman Internship Support Program is to provide financial assistance to students in low-paying or volunteer internships.

Students may use funds to help offset a variety of expenses including transportation, living expenses, projects, and research. Applications for International Internships are also considered for additional support from the Global Experience Fund. A small committee, led by Dr. Dale Weber, review applications and conducts interviews.

<https://agsci.oregonstate.edu/academics/financial-support/internship-financial-support-program>

\$20,700 of funding for 28 students, across 8 majors for Winter/Summer/Fall 2018.

Positions and Locations

Therapeutic Nursery Intern, Chico, California	Volunteer Farm Intern, Buena Vista, Colorado
Field Research Assistant, Malaysian Borneo	Biochemistry and Biophysics Research Assistant, Corvallis
Research Assistant, Corvallis	Assistant gardener on organic farm, Ireland
Environmental Education Trust Assistant, Cape Town, South Africa	Student Researcher, Corvallis
Seabird Oceanography Lab Intern, Newport, Oregon	Marketing Assistant, New Zealand
Youth Gardening Coordinator, Oglala, South Dakota	Undergraduate Research Assistant, Corvallis
Forest Ecology Research Assistant, Panama	Mid Coast Fisheries Intern, Newport, Oregon
Aquatics Technician, Three Rivers, California	Biochemistry and Biophysics Research Assistant, Corvallis
Undergraduate Research Intern, Newport, Oregon	Western Gull Research Intern, Newport, Oregon
Student Researcher, Corvallis	Small Farms Needs Assessment Researcher, Salem, Oregon
Baseball Groundskeeper, Columbia, South Carolina	Undergraduate Research Assistant, Corvallis
Animal Control Cadet, Roseburg, Oregon	NASA Lab Technician, Orlando, Florida
Pharmacy Research Assistant, Corvallis	Student Intern, Washington, D.C.
Turfgrass Intern, Pebble Beach, California	Lab Assistant, Corvallis

3. ER Jackman Friends and Alumni Scholarships

In recent years, ER Jackman Friends and Alumni Scholarships, totaling \$20,000 per year, are typically awarded at \$2,000 each to students in CAS majors. A committee of approximately 10 members representing each of the college's departments and programs reviews scholarship applications. Recipients are notified in April. The unrestricted nature of the scholarship allows the CAS Scholarships and Awards Committee the flexibility to identify and address gaps in student funding. Outstanding students overlooked by other scholarships due to narrow selection criteria are routinely selected for these scholarships, thereby allowing CAS to leverage scholarship dollars to support the needs of our ever-changing student demographic.

\$20,000 in funding for 10 students across 6 majors for 2018-19.

4. Louis Stokes Minority Participation (LSAMP) Program.

<http://lsamp.oregonstate.edu/>

The objective of the LSAMP Program is to integrate students into the academic life at Oregon State and into their chosen discipline in a way that will foster growth and success. Students are provided with financial, academic, social, and professional support in a coordinated effort to help them achieve their academic and professional goals. Programming includes a residential bridge program for incoming freshman, mentor program, second-year and transfer program, tutoring, workshops, a student center, and undergraduate research funding.

E.R. Jackman Friends and Alumni and the College of Agricultural Sciences have collaborated with other OSU colleges and the OSU Division of Undergraduate Studies on a National Science Foundation (NSF) grant to fund LSAMP for the past six years and we look forward to continue that partnership into the future. The ERJFA and CAS provide annual financial support for LSAMP programming through the current NSF LSAMP grant period ending July, 2019 for a total of \$16,350. We would like to partner on the renewal of this grant.

LSAMP Summer Bridge is a 10-day residential bridge program focused on community building prior to the start of fall term. Each year CAS offers a half-day of activities for LSAMP Summer Bridge participants. Activities have included the Chemistry of Cheese; A Botany Adventure;; Pests, Predators, and Pollinators; The Race to Fish, among others.

LSAMP Academy and Programming consist of an orientation program to introduce incoming Underrepresented Minority STEM first year and transfer students to the LSAMP program and community involving workshops, activities, tours, connections to mentors, and use of center. Programming – includes workshops/activities throughout the year, conference attendance for students to present research, industry tours, and other complementary programming between the colleges and LSAMP. Each year CAS has visited with LSAMP students about opportunities in agricultural and natural resource sciences, during their fall orientation class. In 2017, several CAS faculty volunteered to serve as mentors for small groups of LSAMP students during spring term.

Continuing/New Funding Request (Fox Fund). \$16,350 of funding for 10 Summer Bridge students (\$14,850) and for the Academy and programming expenses (\$1,500).

5. CAS Club Funding

E.R. Jackman Friends and Alumni funding of CAS clubs occurs each spring term with applications and interviews by several ERJFA Board members and CAS Dean's Office representatives. Club representatives can request the funds be transferred to their club account after July 1. Betsy Hartley, External Relations for the CAS Dean's Office, previously ran this process. Since the departure of Betsy, the CAS Academic Programs Office will oversee the process for Spring 2019. Penny Diebel, Associate Dean of Academic programs, has met with Ag Exec and some student club representatives to review the process and may propose some changes to the ERJFA Board before spring. Primarily changes will be limited to the written application submission process and communication to clubs.

\$39,940 in funding for 21 clubs, with individual funding ranging from \$290 to \$4,000, for 2018-19.

4H- Collegiate	\$ 500
AAEA Academic Bowl	\$ 500
Agricultural Education Club	\$ 1,500
Agricultural Executive Council	\$ 9,000
Bird Nerds Club	\$ 1,000
College of Ag Sci Ambassadors	\$ 4,500
Dairy Club	\$ 1,500
FFA- Collegiate	\$ 800
Fisheries and Wildlife Graduate Student Association	\$ 1,400
Fisheries and Wildlife Undergraduate Club	\$ 1,500
Food and Fermentation Science Club	\$ 1,500
Goat Club	\$ 850
International Ag Club	\$ 800
MANNRS Club	\$ 3,000
Poultry Science Club	\$ 290
Pre-Vet Med Association	\$ 1,400
Sigma Alpha	\$ 1,000
Steer-A-Year Club	\$ 1,800
TEAM TOX Club	\$ 2,000
Vitis Club	\$ 1,100
Eastern Oregon Ag & Nat. Resources Ambassador Program	\$ 4,000
	\$ 39,940