

Bahareh Sorouri, PhD

☎ (949) 350-1270

✉ bsorouri@uci.edu

in [linkedin.com/in/baharehsorouri](https://www.linkedin.com/in/baharehsorouri)

EDUCATION:

University of California, Irvine (UCI) <i>Ecology and Evolutionary Biology, Doctor of Philosophy</i> Cellular and Molecular Biosciences Gateway Program	3/2023
University of California, Irvine <i>Genetics, Bachelor of Science</i> Dean's List Recognition (April 2016)	3/2017
Irvine Valley College <i>Associates of Arts (Biology, Chemistry, Physical Sciences)</i> <i>Magna Cum Laude</i> Dean's List Recognition (December 2013- May 2015)	6/2015

RESEARCH APPOINTMENTS:

Postdoctoral Research Fellow, University of Alaska Fairbanks (UAF) <ul style="list-style-type: none">Project: <i>Roles of Gut Microbiomes in Herbivorous Host Toxin Tolerance</i>National Science Foundation Postdoctoral Fellow in BiologyAdvisor: Dr. Mario E. Muscarella	Expected start 8/2023
PhD Candidate, Ecology and Evolutionary Biology, UCI <ul style="list-style-type: none">Thesis: <i>Microbial Functional and Genetic Variation with Climate Change</i>Analyzed microbial extracellular enzyme activity and litter decomposition with simulated climate change across a Southern California gradientExplored <i>Sphingomonas</i> bacterial genus habitat preference traits across clades and global environments using publicly available dataProbed metagenomic data for <i>Sphingomonas</i> across the Southern California climate gradient to understand how their genomic content shifts over timeCommittee: Dr. Steven D Allison (chair), Dr. Brandon S. Gaut, Dr. Jennifer BH. Martiny, and Dr. Adam C. Martiny	5/2018 – 3/2023
PhD Rotation Student, Cellular and Molecular Biosciences, UCI <ul style="list-style-type: none">Analyzed molecular compatibility of co-occurring transcription factors and promoter motifs (<i>Drosophila</i> Gene Regulation Lab; Advisor: Dr. Zeba Wunderlich)Identified genetic mutations facilitating <i>Escherichia coli</i> recovery from lethal thermal stress (Evolutionary Genetics Lab; Advisor: Dr. Brandon Gaut)Studied climate change effects on environmental microbial community function (Microbial Ecology Lab; Advisor: Dr. Steven Allison)	8/2017 – 5/2018
Undergraduate Researcher, Genetics Major, UCI <ul style="list-style-type: none">Investigated pathogenic consequences of Huntington's Disease in fruit flies (Developmental Genetics Lab; Advisor: Dr. Lawrence Marsh)Determined which two nucleotide mutations located at the 5' splice site interrupt splicing formation (RNA Splicing Lab; Advisor: Dr. Klemens Hertel)Received formal training to work with radioactive α-UTP-³²P	1/2016 – 4/2017
Undergraduate Researcher, Biology, IVC <ul style="list-style-type: none">Explored severity of criminal jurisdiction when attributing human behavior to brain's biochemistry (Advisor: Professor Jawad Ali)Researched regulatory effects of vitamin D in cancer and hereditary rickets (Advisor: Dr. Emalee Mackenzie)	9/2013 – 5/2015

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Intern, Nutrition and Food Sciences, Wayne State University, Detroit, MI

6/2012 – 7/2012

- *mTOR Regulation by Vitamin D in Non-melanoma Carcinoma Skin Cancer Tissue*
- Conducted lab experiments and research on mTOR pathway regulation with respect to varying vitamin D concentrations (Advisor: Dr. Ahmad Heydari)

PEER-REVIEWED PUBLICATIONS:

- Sorouri, B., Rodriguez, CI., Gaut, BS., Allison, SD. (2023) [Variation in *Sphingomonas* Traits across Habitats and Phylogenetic Clades](#). *Frontiers in Microbiology* 14, 1193.
- Sorouri, B., Allison, SD. (2022) [Microbial Extracellular Enzyme Activity with Simulated Climate Change](#). *Elementa: Science of the Anthropocene* 10:1.

PUBLICATIONS IN PREPARATION:

- Sorouri, B., Scales, NC., Gaut, BS., Allison, SD. *Sphingomonas* Clade and Functional Distribution with Simulated Climate Change. *Frontiers in Microbiology*.

PRESENTATIONS:

Invited Talks

- Sorouri B. (2023) *Microbial Functional and Genetic Variation with Climate Change*. UAF. Fairbanks, AK.
- Sorouri B. (2022) *Voices for Science*. American Geophysical Union. Chicago, IL.
- Sorouri B. (2022) *Uncovering Traits within the Microbial Tree of Life*. Soka University of America. Aliso Viejo, CA.
- Sorouri B., Allison SD. (2020) *Microbial Extracellular Enzyme Activity Along a Climate Gradient*. Society for Advancement of Chicanos/Hispanics and Native Americans in Science Annual Conference. Virtual. (**Session Speaker**)
- Berhe AA., Sorouri B., Ulrich R., Handley H., Emani S., Marcus T. (2019). *The Power of Science Lies in Its Diverse Voices*. American Geophysical Union Town Hall. San Francisco, CA. (**Invited Panelist**). [Featured article](#)

Conference Presentations

- Sorouri B., Rodriguez CI., Gaut BS., Allison SD. (2021) *Variation in Bacterial Traits Across Habitats and Phylogenetic Clades*. Ecological Society of America & Canadian Society for Ecology and Evolution. Montréal, Québec, Canada. (**Oral**)
- Sorouri B. Blast to the Past: Variation in Bacterial Traits across Habitats and Phylogenetic Clades. (2022) UCI Associated Graduate Student Symposium. Irvine, CA. (**Oral**)
- Finley BK., Sorouri B., Treseder KK., Martiny JBH., Martiny AC., Rodriguez-Verdugo A., Goulden ML., Wang S., Brodie EL., Allison SD. (2022) *Litter Microbial Trait-Based Strategies in Response to Drought: A Multi-omics Approach*. Department of Energy Genomics Science Program Annual Principal Investigator Meeting. Virtual.
- Sorouri B. (2022) *Sphingomonas: Solution to Pollution?*. UCI Grad Slam Semifinals. Virtual. (**Oral**)
- Sorouri B., Rodriguez CI., Allison SD. (2021) *Variation Bacterial Traits Across Phylogenetic Clades and Environments*. American Geophysical Union. New Orleans, LA. (**Poster**)
- Sorouri B. (2020) *Who Run the World: Environmental Microbes*. UCI Grad Slam Semifinals. Irvine, CA. (**Oral**)
- Sorouri B., Allison SD. (2020) *Microbial Extracellular Enzyme Activity Along a Climate Gradient*. Society for Advancement of Chicanos/Hispanics and Native Americans in Science Annual Conference. Virtual. (**Oral**)
- Sorouri B., Allison SD. (2019) *Microbial Communities Exhibit Resilient Extracellular Enzyme Activity Along a Climate Gradient*. UCI Environmental Research Poster Symposium. Irvine, CA. (**Awarded Best Poster**)

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- **Sorouri B.**, Allison SD. (2019) *Microbial Communities Exhibit Resilient Extracellular Enzyme Activity Along a Climate Gradient*. American Geophysical Union Meeting. San Francisco, CA. **(Poster)**
- **Sorouri B.**, Allison SD. (2019) *Microbial Communities Exhibit Resilient Extracellular Enzyme Activity Along a Climate Gradient*. Winter Ecology and Evolutionary Biology Graduate Student Symposium. Irvine, CA. **(Oral)**
- **Sorouri B.**, Allison SD. (2019) *Environmental Microbes: (Friendly) Snakes in the Grass*. Associated Graduate Student Symposium. Irvine, CA. **(Oral)**
- **Sorouri B.**, Allison SD. (2019) *Microbial Communities Exhibit Resilient Extracellular Enzyme Activity Along a Climate Gradient*. Department of Energy Genomics Science Program Annual Principal Investigator Meeting. Tysons, VA. **(Poster)**
- Allison SD., Glassman SI., **Sorouri B.**, Weihe C., Goulden ML., Martiny AC., Treseder KK., Martiny JBH. (2018) *Microbial enzymatic and decomposition responses to climate change in Southern California*. Ecological Society of America. New Orleans, LA.
- **Sorouri B.**, Movassat M., Gilbert K., Erkelenz S., Schaal H., Hertel K. (2016) *Spliceosomal Complex Assembly at Variable 5' Splice Sites*. UCI UROP Symposium. Irvine, CA. **(Poster)**
- **Sorouri B.**, Ali, J. (2015) *Neurolaw on Hold*. Stanford University Bay Honors Research Symposium (BHRS). Stanford, CA. **(Oral)**
- **Sorouri B.**, Mackenzie, E. (2014) *Relation Between Vitamin D and HVDRR*. UC Berkeley BHRS. Berkeley, CA. **(Oral)**
- **Sorouri B.**, Khasanaweh, R., Unikrishnan, A., Mackenzi, E., Heydari, A.R. (2014) *mTOR Regulation by Vitamin D in Non-melanoma Skin Cancer*. UCI Honors Transfer Council of California. Irvine, CA. **(Oral)**
- **Sorouri B.**, Khasanaweh, R., Unikrishnan, A., Mackenzi, E., Heydari, A.R. (2013) *mTOR Regulation by Vitamin D in Non-melanoma Skin Cancer*. IVC/Saddleback College Honors Research Symposium. Mission Viejo, CA **(Oral)**

TEACHING EXPERIENCE:

California State University, Long Beach

8/2021 – 12/2021

- Pre-Professor Program (PREPP) Fellow
 - Prepared lecture material, and presented one class session for upper division undergraduate bioinformatics course as visiting instructor
 - Attended workshops on student support, faculty development, and teaching practices
 - Observed classes and one-on-one research mentoring meetings
 - Completed Advancing Inclusive Mentoring Workshops and earned certificate
 - Mentor: Dr. Niloofar Bavarian

University of California, Irvine

- Division of Teaching Excellence and Inclusion Course Design Certificate Program 8/2021 – 9/2021
 - Designed an upper division undergraduate Microbiomes Course
 - Learned and applied Bloom's Taxonomy to create active-learning assignments
 - Developed a syllabus with student learning outcomes and clear expectations on the course policy
- Preparing for Future Faculty Careers Certificate Program 7/2020 – 8/2021
 - Gained insight on faculty positions in different institutions, the academic job search process, and how to successfully transition to faculty career
 - Workshopped application material and learned to give a successful job talk
- E 118 Ecosystem Ecology Teaching Assistant 3/2021 – 6/2021
 - Reviewed problem sets, graded assignments, held office hours (59 students)
- Bio 94 Organisms to Ecosystem Teaching Assistant 1/2021 – 3/2021

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- Planned for and led three discussion sections, developed worksheets, held office hours (87 students)
 - Bio 93 DNA to Organisms Teaching Assistant 9/2020 – 1/2021
 - Prepared for and led three discussion sections, developed worksheets, held office hours (80 students)
 - D 137 Eukaryotic and Human Genetics Reader (76 students) 12/2016
 - Graded extra credit assignments
 - D 137 Eukaryotic and Human Genetics Personal Tutor 10/2017 – 12/2017
- Irvine Valley College**
- Bridges to Biotechnology Teaching Assistant 6/2015 – 7/2015
 - Facilitated a biotechnology informational program and lab for high school students (20 students)

SCIENCE COMMUNICATION:

The Loh Down on Science, National Public Radio (NPR)

- Managing Editor (ME) 10/2019 – present
 - Edit over 250 scripts for scientific accuracy and style
 - Served in various supplemental ME role outlined below during rounds
- Lead Managing Editor 4/2021 – 10/2021
 - Communicated deadlines and expectations as well as run monthly meetings
 - Brainstormed with ME's to address writers' concerns and improve script pipeline
 - Optimized the pitch submission and review process
 - Expanded the executive board to include a Social Media ME position
 - Advocated for expanding writer pool and hired the first full-time writer outside of UCI
 - Respond to listeners' emails voicing positive feedback and concerns
- Recording Session Managing Editor 4/2020 – 10/2020
 - Attended monthly recording sessions and made real-time edits to scripts
 - Communicated with producers and ensured there were enough scripts for each month
 - Posted scripts, images, and descriptions to website
- Science Writer 4/2019 – 10/2019
 - Wrote and edited 10 humorous, informative science [scripts](#) for radio show and podcast that were broadcasted on NPR and Southern California Public Radio (KPCC)

American Geophysical Union (AGU)

- Voices for Science Communication Fellow 4/2022 – 3/2023
 - Worked with AGU staff to communicate the value of Earth and space science to local communities through outreach activities

The Loh Down on Science: Special Pandemic Edition

- Wrote, recorded, and edited three-minute podcasts on science of pandemics
 - Edited peers' scripts for clarity and style
 - Published work: [Breath of Fresh Air](#), [Pandemic Pets](#), [Rona Ramadan](#)
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MENTORING EXPERIENCE:

ReachOut TeachOut at UCI Co-President & Member	10/2017 – 8/2022
<ul style="list-style-type: none">• Collaborate with Westminster High School and UCI graduate students to host in-person and virtual high school events• Foster communication with low-income high school students to excite them about science• Mentored 2 high school students with their award-winning science fair project	
UCI Allison Lab Undergraduate Student Mentor	10/2018 – 12/2022
<ul style="list-style-type: none">• Mentored 5 undergraduates with their research projects and graduate school application (• 3 mentees won Excellence in Research Awards and an Undergraduate Research Opportunity Program (UROP) Grant	
Letters to a Pre-Scientist Mentor	10/2017 – 6/2020
<ul style="list-style-type: none">• Wrote letters as a pen-pal for underprivileged K-12 students to demystify STEM careers• Mentored 3 students on potential paths to higher education and STEM	

AWARDS AND SCHOLARSHIPS:

National Science Foundation Postdoctoral Research Fellowship in Biology ~ \$240,000 (8/2023 – 8/2026)
AGU Voices for Science Avenger's Activity Engagement Grant ~ \$1200 (4/2023)
AGU Voices for Science Avenger's Activity Engagement Grant ~ \$100 (11/2022)
UCI Graduate Dean's Dissertation Year Fellowship ~ \$5,000 (7/2022 – 9/2022)
UCI AGS Symposium Biological/Life Sciences 2nd Place Presentation Winner (5/2022)
UCI Associated Graduate Students Conference Grant ~ \$250 (12/2021)
Graduate Assistance in Areas of National Need Honorable Mention Recipient (11/2021)
UCI Collaborative Program of the Year Award; ReachOut TeachOut at UCI ~ \$100 (5/2021)
UCI Collaborative Program of the Year Award; ReachOut TeachOut at UCI ~ \$100 (5/2020)
Best Poster Award at UCI Environmental Research Poster Symposium (12/2019)
National Science Foundation Graduate Research Fellowship Honorable Mention Recipient (4/2019)
UCI Campuswide Honors Alumna (9/2015 – 3/2017)
UC Regents Scholarship ~ \$5,000 (9/2015 – 3/2017)
Undergraduate Research Opportunities Program Fellowship ~ \$550 (1/2016)
IVC Honors Program Alumna (6/2013 – 5/2015)
ASIVC Life Sciences and Technology Scholarship ~ \$250 (5/2015)

OUTREACH SERVICES:

Orange County Society for Conservation Biology Member	10/2018 – 3/2019
<ul style="list-style-type: none">• Educated local community members on problems in Southern California native ecosystems	
UCI Freshman Seminar Invited Panelist	11/2018
<ul style="list-style-type: none">• Invited to speak to UCI incoming freshman about seeking research opportunities at UCI and identifying career options after graduation	
University High School Invited Speaker	3/2018 & 2/2019
<ul style="list-style-type: none">• Spoke with high school students about college applications, journey to graduate school and climate change research	
Irvine Unified School District Science Fair Judge and Volunteer	3/2018 – 3/2019

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- Judged District Science Fair
- Guided students in their rationale during “Ask-a-Scientist” Night

TIGERS Volunteer

10/2017 – 3/2019

- Targeted Instruction Generating Excitement about Research and Science
- Engaged students in inquiry-based biology labs at Valencia High School

8/2012 – 8/2013

UCI Medical Center Volunteer

- Shadowed otolaryngologist, Dr. Hamid Djalilian, as he interacted with patients
 - Aided nurses with discharging patients in the Outpatient Surgery Department
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SKILLS:

- **Software:** Microsoft Office (Word, PowerPoint, Excel), R, Bash Programming, Python, SPSS, and Audacity
 - **Language:** English, Farsi, and Spanish
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SOCIETY MEMBERSHIP/AFFILIATION:

American Geophysical Union ~ Ecological Society of America ~ Society for the Advancement of Chicanos/Hispanics and Native Americans in Science ~ Women in Soil Ecology

RELEVANT COURSEWORK:

- **Microbiology:** Microbial Genetics; Microbiology Lecture and Lab
 - **Genetics:** Principles of Genomics; Genetics and Evolutionary Biology; Eukaryotic Genetics; Genomics Development, and Medicine; Introduction to Personalized Medicine; Fundamentals of Informatics
 - **General Biology:** Ecology; Molecular Biology and Biochemistry; Neuroscience Lecture and Lab; Human Physiology Lecture and Lab
 - **Mathematics:** Quantitative Methods, Statistics, Analytical Geometry and Calculus
 - **Other:** Organic Chemistry Series, Physical Sciences Series
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