



Sabrina L. Mostoufi

Pronouns: she/her/hers

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(530)510-3959

Education

- 2023 **Ph.D.** in Biology
Advisor: Dr. Nadia Singh, University of Oregon, Eugene OR
Dissertation: Uncovering the dynamics of *Wolbachia*-associated plastic recombination in *Drosophila melanogaster*
- 2018 **B.Sc.** in Biology, *Magna Cum Laude*, with Honors
Advisor: Dr. Bryan Ness, Pacific Union College, Angwin CA
Honors thesis: Franken-tomato or Flav'r Savr? The myths, mutants, and miracles behind genetically modified organisms

Teaching Experience

Whitman College

- Fa 2024 **Cell Biology (BIOL 272)**, Instructor of Record
- Fa 2024 **Intro to Comp Bio (BIOL 250)**, Instructor of Record

University of Oregon

- Sp 2024 **Microbiology (BI 330)**, Instructor of Record
- Sp 2024 **Data Science 101 (DSCI 101)**, Instructor of Record
- Wi 2024 **Data Science 101 (DSCI 101)**, Instructor of Record
- Fa 2023 **Data Science 101 (DSCI 101)**, Instructor of Record
- Sp 2023 **Evolution (BI 380)**, Instructor of Record
- Sp 2023 **Foundational Computing and Statistics (DSCI 610)**, Instructor of Record
- Sp 2019 **General Biology III: Ecology and Evolution (BI 213)**, Graduate Employee
Supervisors: Dr. Cristin Hulslander, Dr. Laurel Pfeifer-Meister
- Wi 2019 **General Biology II: Organisms (BI 212)**, Graduate Employee
Supervisor: Dr. Mark Carrier
- Fa 2018 **General Biology I: Cells (BI 211, 212, 213)**, Graduate Employee
Supervisor: Dr. Cristin Hulslander

Pacific Union College

- Wi 2024 **Intro to Biology (BIOL 105)**, Instructor of Record
Lab Instructor: Prof. Aimee Wyrick
- Sp 2018 **Genetics (BIOL 354)**, Teaching Assistant
Supervisor: Dr. Bryan Ness
- Fa 2017-
Sp 2018 **Biological Foundations (BIOL 111, 112, 113)**, Teaching Assistant
Supervisors: Dr. Backil Sung, Dr. Bryan Ness, Prof. Aimee Wyrick
- Fa 2016- **Scientific Discovery (GSCI 205)**, Teaching Assistant

Sp 2018 Supervisor: Dr. Bryan Ness
Fa 2016- **Issues on Origins (BIOL 355)**, Teaching Assistant
Supervisor: Dr. Bryan Ness
Fa, Sp 2016 **Intro to Research Methods (BIOL 222)**, Teaching Assistant
Supervisor: Dr. Bryan Ness

Teaching Technical Proficiencies

<u>Learning Management Systems</u>	Canvas
<u>Lecture Polling</u>	PollEverywhere, iClicker
<u>Lecture Recordings</u>	Panopto (with captions for accessibility)
<u>Presentation Software</u>	Microsoft PowerPoint, RMarkdown Slides
<u>Programming</u>	Python, Jupyter Notebooks, R, RStudio, Linux, bash, High-Performance Computing Clusters (HPCC)
<u>Remote/Hybrid Teaching</u>	Zoom, Microsoft Teams

Professional Development

2019-Present **Science Teaching Journal Club**, University of Oregon
2024 **Diversity in STEM Journal Club**, University of Oregon
2022-2023 **Graduate Teaching Initiative (GTI) Certification**, Teaching Engagement Program, University of Oregon
2021-2023 **Emerging Scholar**, Center for Science Communication Research Associate Program, University of Oregon
2021-2022 **Journal of Emerging Investigators (JEI)**, Reviewer
2019-2022 **NIH Genetics Training Program**, University of Oregon
2021 **Engaged Pedagogy (UGST 609)**, University of Oregon
2021 **The Inclusive STEM Teaching Project**, Boston University, edX
2021 **Researching Inclusivity in STEM Education (BI 607)**, University of Oregon

Research Experience

2023 **Research Associate**, Dr. Nadia Singh, University of Oregon
2018-2023 **Graduate Researcher**, Dr. Nadia Singh, University of Oregon
Presentations:

- 2023 Biology Research Symposium poster presentation: “*Wolbachia* infection alters transposable element activity in *Drosophila melanogaster*”
- 2022 Drosophila Research Conference poster presentation: “*Wolbachia* infection alters transposable element activity in *Drosophila melanogaster*”
- 2021 Drosophila Research Conference poster presentation: “*Wolbachia* titer does not affect magnitude of plastic recombination in *Drosophila melanogaster*”

2017-2018 **Undergraduate Research Assistant**, Molecular Genetics Laboratory
Dr. Bryan Ness, Pacific Union College, Angwin CA

Publications

- Mostoufi, SL** and ND Singh. In preparation. Mapping whole genome recombination of *Wolbachia*-associated plastic recombination in *Drosophila melanogaster*.
- Mostoufi, SL** and ND Singh. 2024. Pathogen infection alters the gene expression landscape of transposable elements in *Drosophila melanogaster*. G3 (Bethesda): advance epub. doi: 10.1093/g3journal/jkae171.
- Mostoufi, SL** and ND Singh. 2022. Diet-induced changes in titer support a discrete response of *Wolbachia*-associated plastic recombination in *Drosophila melanogaster*. G3 (Bethesda) 12(1): jkab375. doi: 10.1093/g3journal/jkab375.

Mentoring and Leadership

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| 2023 | University of Oregon Women in Science and Math ARC , Lab Tours Volunteer |
| 2022-2023 | Undergraduate Research Mentor , Nadia Singh Lab |
| 2020-2023 | Graduate Evolutionary Biology and Ecology Students (GrEBES) , President, Vice-President, Project Coordinator |
| 2019-2022 | Joint Undergrad-Grad Mentorship Program (JUMP) , University of Oregon |
| 2021 | Early Arrival for Graduate Education and Research (EAGER) , Panelist and Session Leader, University of Oregon |
| 2020-2021 | Institute of Ecology and Evolution Mentorship Program , University of Oregon
Sponsors: GrEBES, Biology DEI Committee |

Fellowships, Grants, and Honors

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| 2022 | Outstanding Poster Presenter , Graduate Research Forum, University of Oregon |
| 2022 | Diversity, Equity, and Inclusion Grant , Dr. Sara Brownell Seminar and Workshop
University of Oregon Postdoc Association, Co-awardee: Maddy Case, Ph.D. |
| 2022 | Biology Diversity, Equity, and Inclusion Grant , Biology Research Symposium
University of Oregon Department of Biology, Co-awardee: Rose Al-Saadi, M.S. |
| 2022 | Donald Wimber Conference Travel Fund , University of Oregon |
| 2019-2021 | NIH Genetics Training Grant Fellowship , University of Oregon |
| 2019 | Department of Biology Graduate Teaching Recognition Award , University of Oregon |
| 2014-2018 | Maxwell Scholar , Pacific Union College |