

Ethan Wolfe

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Education

Michigan State University, *East Lansing, MI* | Anticipated Graduation: May 2025

Biochemistry and Molecular Biology with minors in Pharmacology and Toxicology, Computational Mathematics, Science, and Engineering, and Spanish.

GPA: 4.000 / 4.000 | Dean's List (3 of 3 semesters) | Honors College

University of Virginia in Valencia, *Valencia, Spain* | Study abroad | Sep–Dec 2022

Spanish Language, Literature, and Culture.

Salem High School, *Salem, NH* | Graduation: 2021

GPA: 4.000 / 4.000; 4.347 / 4.000 (weighted)

Class Rank: 1 / 269; 2 / 269 (weighted)

Employment

Professorial assistant, JRaviLab | PI: Dr. Janani Ravi

Michigan State University, *East Lansing, MI* | Sep 2021 – Jul 2022 | University of Colorado Anschutz Medical Campus, *Aurora, CO* | Aug 2022 – present

Developing computational methods to study the coevolution of effector-metaeffector proteins in *Legionella pneumophila*.

Collaborator: Dr. Stephanie Shames

Building comparative genomic and machine learning models to study antimicrobial resistance in ESKAPE pathogens.

Presentations:

- Intelligent Systems for Molecular Biology (ISMB), the flagship conference of the International Society for Computational Biology (ISCB) (July 2022), *Madison, WI*; poster received honorable mention
- Mid-Michigan Symposium for Undergraduate Research Experiences (Mid-SURE) (July 2022)
- Undergraduate Research and Arts Forum (UURAF) (Apr 2022 & 2023), *East Lansing, MI*

Publications:

- Burke JT*, Krol JD*, Chen SZ*, Sosinski LM*, Alquaddoomi FS, Rubinetti VP, Brenner EP, Wolfe EP, Amolitos S, Reason KM, Johnston JB, Ravi J[#]. MolEvolVR: A web-app for characterizing proteins using molecular evolution and phylogeny. [bioRxiv Webapp](#)

*Co-primary; [#]Co-corresponding.

Retail associate, Lake Street Garden Center, *Salem, NH* | Mar 2018 – present

Contribute to store upkeep by stocking, organizing, and caring for plants.

Piano teacher, self-employed | June 2019 – Aug 2021

Taught weekly piano lessons to three students.

Honors, Awards, and Skills

- Honorable mention for poster presented at the Intelligent Systems for Molecular Biology (ISMB) conference, Evolution and Comparative Genomics track (July 2022)
- MSU Professorial Assistantship (2021–2023; awarded to top 200 incoming undergraduates)
- MSU College of Natural Science Undergraduate Research Scholarship (Spring 2022)
- SHS Class Valedictorian (May 2021)
- SHS Science Department Award across all seniors (May 2021)

- SHS Excellence in AP Calculus Award (May 2021)
- MSU Honors Excellence Scholarship (awarded Mar 2021; applies Sep 2021 – May 2025)
- MSU Out-of-state Scholarship (awarded Nov 2020; applies Sep 2021 – May 2025)
- MSU Presidential Study Abroad Scholarship (Nov 2020)
- University of Rochester – Bausch + Lomb Honorary Science Award (May 2020)

Activities

- MSU Outdoors Club (Jan 2022–Apr 2022)
- Planted and maintained 2,500 ft² vegetable garden; donated >500 lbs of produce to local food pantry (2020)

Updated: 2023-06-26