



Shaili Mathur

Ph.D. Student in Biology, admitted Autumn 2021

Bio

BIO

I'm a PhD student in the Eco/Evo track in the Biology department at Stanford. I was at UCLA as an undergraduate, where I majored in Computational and Systems Biology and minored in Mathematics, and also completed my MS in Bioinformatics with Prof. Van Savage through the Departmental Scholar Program. I am interested in using theory and experimental techniques to understand evolutionary dynamics, information processing in biological systems, and complexity in biological systems.

HONORS AND AWARDS

- Stanford Graduate Fellowship, Stanford University (2021-2024)

EDUCATION AND CERTIFICATIONS

- MS, University of California, Los Angeles , Bioinformatics (2021)
- BS, University of California, Los Angeles , Computational and Systems Biology (major), and Mathematics (minor) (2021)

Publications

PUBLICATIONS

- **Environmental memory alters the fitness effects of adaptive mutations in fluctuating environments.** *Nature ecology & evolution*
Abreu, C. I., Mathur, S., Petrov, D. A.
2024
- **Enumeration of Rooted Binary Unlabeled Galled Trees.** *Bulletin of mathematical biology*
Agranat-Tamir, L., Mathur, S., Rosenberg, N. A.
2024; 86 (5): 45
- **Strong environmental memory revealed by experimental evolution in static and fluctuating environments.** *bioRxiv : the preprint server for biology*
Abreu, C. I., Mathur, S., Petrov, D. A.
2023
- **All galls are divided into three or more parts: recursive enumeration of labeled histories for galled trees.** *Algorithms for molecular biology : AMB*
Mathur, S., Rosenberg, N. A.
2023; 18 (1): 1