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Ph.D. Student in Physics, admitted Autumn 2020

Publications

PUBLICATIONS

- **Genotype-fitness mapping of adaptive mutants reveals shifting low-dimensional structure across divergent environments.** *PLoS biology*
Ghosh, O. M., Kinsler, G., Good, B. H., Petrov, D. A.
2026; 24 (3): e3003618
- **An empirical long-term competition among natural yeast isolates reveals that short-term fitness largely but not entirely predicts long-term outcomes.** *bioRxiv : the preprint server for biology*
Khristich, A. N., Ghosh, O. M., Vila, J. C., Mathur, S., Dutta, A., Garin, M., Schacherer, J., Petrov, D. A.
2025
- **Low-dimensional genotype-fitness mapping across divergent environments suggests a limiting functions model of fitness.** *bioRxiv : the preprint server for biology*
Ghosh, O. M., Kinsler, G., Good, B. H., Petrov, D. A.
2025
- **Massively parallel experimental interrogation of natural variants in ancient signaling pathways reveals both purifying selection and local adaptation.** *bioRxiv : the preprint server for biology*
Aguilar-Rodríguez, J., Vila, J., Chen, S. A., Razo-Mejia, M., Ghosh, O., Fraser, H. B., Jarosz, D. F., Petrov, D. A.
2024
- **Emergent evolutionary forces in spatial models of luminal growth and their application to the human gut microbiota.** *Proceedings of the National Academy of Sciences of the United States of America*
Ghosh, O. M., Good, B. H.
2022; 119 (28): e2114931119