Nikolai G. Vetr

CONTACT Phone: (602) 578-9196 LinkedIn: linkedin.com/in/nikolai-vetr INFORMATION Email: nikgvetr@stanford.edu GitHub: github.com/NikVetr/

Education Postdoc, Montgomery Lab, Stanford University

Pathology + Genetics + Biomedical Data Science

PhD, University of California, Davis 2020

Dissertation: Exploring and Extending Multivariate Brownian Diffusion Models of Phenotypic Evolution for Bayesian Phylogenetic Inference

Anthropology + Population Biology + Data Science & Informatics

BA, Vanderbilt University

Earth & Environmental Sciences + Ecology, Evolution & Organismal Biology

Departmental Honors,  $summa\ cum\ laude$ 

Recent Abell, N., Vetr, N.\*, Montgomery, S., et al. 2024. A Survey of High Depth Allele-Specific Expression Work Across Normal Tissues and Ovarian Cancers. In Prep.

**Vetr, N.**, Gay, N., and Montgomery, S. 2024. The impact of exercise on gene regulation in association with complex trait genetics. Nature Communications 15(3346): 1-14. DOI: 10.1038/s41467-024-45966-w.

MoTrPAC Study Group<sup>†</sup>. 2024. Temporal dynamics of the multi-omic response to endurance exercise training across tissues. Nature 629(8010): 174-183. DOI: 10.1038/s41586-023-06877-w.

\*dual first authorship, †Author Group: 2 (of 8)

Current

2013

**Leadership Founder**, Applied Bayesian Statistics Research Cluster, *UC-Davis* 2019 - 2020

President, Board of Directors, Wild Animal Initiative

President, Board of Directors, Rethink Priorities

2020 - Present
2023 - Present

Languages Programming: R, Stan, BASH, Python, C++, CSS, HTML, JS

Natural: Russian, English, Spanish

Teaching Associate Instructor, University of California, Davis 2015 - 2020

Human Evolution + Primate Evolution + Human Evolutionary Biology

Carpentries Instructor, Data & Software Carpentries 2019
Course Coordinator, Workshop in Applied Phylogenetics 2019

Selected NIH T15 2021

Grants & Excellence in Data Science Community Training and Outreach

Awards

Outstanding Graduate Student Teaching Award Nominee

2019, 2020

2016, 2019, 2020

1st Place Picnic Day Exhibit Award in "Secrets of Nature" Category
NSF Graduate Research Fellowship
2015

Service Journal Review: Evolution (2017), Science Communications (2018), Cell Reports (2021), Human

Genetics and Genomics Advances (2022)

Grant Review: WAI Grants (2021, 2022, 2023)

Skills & - Probability Models - Causal Inference - Science Communication

Interests - Multiomic Data Integration - Computer Vision - Nat. Lang. Processing

Multiomic Data Integration
 Time Series Modeling
 Bayesian Methods
 Monte Carlo Methods
 Computer Vision
 Artifical Neural Networks
 Population Genetics
 Evolutionary Biology
 Exercise Biology
 Population Genetics
 Population Genetics