Seth D. Temple

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EDUCATION

PhD/MS, **Statistics, University of Washington**   09/19 – 08/24
- Thesis Committee: Sharon Browning, Elizabeth Thompson, Amy Willis, Kelley Harris
- NDSEG Fellow, NIH Trainee in Statistical Genetics, Z.W. Birnbaum Awardee (link)

Post-doctoral Fellowship, **University of Michigan**   Starting 09/24
- Advised by Jonathan Terhorst and Gideon Bradburd
- Schmidt AI for Science Fellow (link)

BS, **Mathematics, University of Oregon**   09/14 – 06/18
- Honors Thesis Committee: Chris Sinclair, Peter Ralph, Samantha Hopkins
- *Summa cum laude*, Phi Beta Kappa, Honors College, Presidential Scholar

WORK EXPERIENCE

Graduate Student Researcher, University of Washington   09/20 – Present
- Methods to study recent evolution, local ancestry, and familial diseases

Instructor of Record, University of Washington   Spring '22, Winter '23
- Graduate-level courses in statistical genetics

*Graduate Student Researcher, **Fred Hutchinson** Cancer Research Center*   06/23 – 12/23
- Methods for anomaly detection and time series clustering with respect to the evolutionary dynamics of SARS-CoV-2

*Graduate Student Researcher, **Los Alamos National Laboratory***   06/20 – 09/20
- Modeling spatiotemporal occupancy of mosquito species for vector epidemiology

*Actuarial Assistant & Intern, **Liberty Mutual Insurance***   1.5 years
- Reserving analyses for the leading global surety; passed actuarial exams (MAS I, P, and FM)

PAPERS

Temple, S.D., Waples, R.K., & Browning, S.R. Modeling recent positive selection in Americans of European ancestry. *bioRxiv* (2023). https://www.biorxiv.org/content/10.1101/2023.11.13.566947v2

Temple, S.D., & Thompson E.A. Identity-by-descent in large samples. *bioRxiv* (2024). https://www.biorxiv.org/content/10.1101/2024.06.05.597656v1

Temple, S.D., Manore, C.A. & Kaufeld, K.A. Bayesian time-varying occupancy model for West Nile virus in Ontario, Canada. *Stoch Environ Res Risk Assess* (2022). https://doi.org/10.1007/s00477-022-02257-4

Gorris, M.E., Bartlow, A.W., **Temple, S.D.,** et al. Updated distribution maps of predominant Culex mosquitoes across the Americas. *Parasites & Vectors* 14, 547 (2021). https://doi.org/10.1186/s13071-021-05051-3

Temple, S.D. The Tweedie Index Parameter and Its Estimator: An Introduction with Applications to Actuarial Ratemaking. University of Oregon (2018). https://scholarsbank.uoregon.edu/xmlui/handle/1794/29040

SKILLS

Research: stochastic processes, computational biology, Bayesian analysis, generalized linear models

Technical: Python + snakemake, R, Unix, git, high performance computing, LaTeX, Excel, C++

Software: https://github.com/sdtemple/isweep, https://github.com/sdtemple/flare-pipeline, https://github.com/sdtemple/btvoccu, https://github.com/sdtemple/pblas

REFERENCES: Sharon R. Browning, Ph.D.; Elizabeth A. Thompson, Ph.D; Frederick Matsen, Ph.D.