

# Seth D. Temple

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## EDUCATION

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- 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

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- 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

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- 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.**, Browning, S.R., & Thompson E.A. Asymptotics of the identity-by-descent rate. *Manuscript in progress*.
- 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>
- Horimoto, Andrea R. V. R., Lisa A. Boyken, Elizabeth E. Blue, Kelsey E. Grinde, Rafael A. Nafikov, Harkirat K. Sohi, Alejandro Q. Nato Jr, et al. 2023. Admixture Mapping Implicates 13q33.3 as Ancestry-of-Origin Locus for Alzheimer Disease in Hispanic and Latino Populations. *HGG Advances* 4 (3): 100207

## SKILLS

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

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

**REFERENCES:** [Sharon R. Browning, Ph.D.](#); [Elizabeth A. Thompson, Ph.D.](#); [Frederick Matsen, Ph.D.](#)

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