

Seth D. Temple

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EDUCATION

- PhD, MS, Statistics, University of Washington 09/19 - Present
- Dissertation Committee: Sharon Browning (head), Elizabeth Thompson, Amy Willis, Kelley Harris
 - NDSEG Fellow, NIH Predoctoral Trainee in Statistical Genetics, [Z.W. Birnbaum Award](#)
- BS, Mathematics, University of Oregon 09/14 – 06/18
- *Summa cum laude*, Phi Beta Kappa, Departmental Honors, Presidential Scholar
 - [Thesis](#) Committee: Chris Sinclair, Peter Ralph, Samantha Hopkins

WORK EXPERIENCE

- Graduate Student Researcher, Fred Hutchinson Cancer Research Center* 06/23 – 12/23
- Project with [Matsen group](#) on evolutionary dynamics of SARS-CoV-2
 - Developed two new methods for anomaly detection and time series clustering
- Graduate Student Researcher, University of Washington* 09/20 – Present
- Developing methods to study recent evolution in human populations
 - Studying how genetic relatedness affects Alzheimer's dementia
 - Extending [FLARE](#) method for local ancestry inference
- Instructor of Record, University of Washington*
- BIOST 550 (Sp22): Statistical Genetics I: Mendelian Traits
 - BIOST 581 (W23): Statistical Genetics Journal Club
 - Teaching assistant roles for senior undergraduates (3 terms)
- Graduate Student Researcher, Los Alamos National Laboratory* 06/20 – 09/20
- Constructed spatiotemporal occupancy models for vector epidemiology
 - Applied machine learning to map geographic distribution of mosquito species
- Actuarial Assistant, Liberty Mutual Insurance* 07/18 – 08/19
- Performed reserving analyses for the leading global surety
 - Developed SQL/SAS code to query claims database
 - Passed advanced statistics and finance actuarial exams
- Research Assistant, University of Oregon* 02/18 – 06/18
- Built neural nets in Python to predict punctuation for audio recordings
 - Trained *keras* models with graphical processing units
- Actuarial Intern, Liberty Mutual Insurance* 06/17 – 07/17

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/10.1101/2023.11.13.566947v1>
- 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. (2018). University of Oregon. <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

SOFTWARE: Python, R, Snakemake, cluster computing, Excel, Unix, SQL, LaTeX, C++
