

# Seth D. Temple

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## EDUCATION

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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

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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

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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/10.1101/2023.11.13.566947v1>

**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++

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