# Seth D. Temple

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#### **EDUCATION**

PhD, Statistics, University of Washington 09/19 - Present Dissertation Committee: Sharon Browning (lead), Elizabeth Thompson, Amy Willis, Kelley Harris NDSEG Fellow, NIH Predoctoral Trainee in Statistical Genetics Alzheimer's Disease Sequencing Project Follow-Up Study BS, Mathematics, University of Oregon 09/14 - 06/18Summa cum laude, Phi Beta Kappa, Departmental Honors, Presidential Scholar Thesis Committee: Chris Sinclair, Peter Ralph, Samantha Hopkins Exchange semester at Universität Tübingen RESEARCH & WORK 09/20 - Present Graduate Research Assistant, University of Washington Developing methods to study recent evolution in human populations Studying patterns of identity-by-descent in families affected by Alzheimer's Graduate Research Assistant, Los Alamos National Laboratory 06/20 - 09/20Advised by Dr. Kimberly Kaufeld Constructed spatiotemporal occupancy models for vector epidemiology Applied maximum entropy modeling for mosquito species distribution mapping Actuarial Assistant, Liberty Mutual Insurance 07/18 - 08/19Performed reserving analyses for the leading global surety Developed SQL/SAS code to query claims database Passed actuarial exams (MAS I. P. and FM) Research Assistant, University of Oregon 02/18 - 06/18Built neural nets in Python to predict punctuation for audio recordings Trained keras models with graphical processing units Actuarial Intern, Liberty Mutual Insurance 06/17 - 09/17Created choropleth maps with R to visualize effects of a spatial smoothing algorithm **TEACHING** Instructor of Record, University of Washington BIOST 550 (Sp22): Statistical Genetics I: Mendelian Traits BIOST 581 (W23): Statistical Genetics Journal Club Directed Reading Program, University of Washington 09/20 – Present Mentor to 4 students, member of organizing and admissions committees Teaching Assistant, University of Washington Module 15 of SISG (Su22): Association Mapping: GWAS and Sequencing Data CSE/STAT 416 (Sp20): Introduction to Machine Learning STAT 423/504 (W20): Applied Regression and Analysis of Variance STAT 421 (F19): Applied Statistics and Experimental Design

Teaching Assistant, University of Oregon

- MATH 467 (W18): Stochastic Processes
- MATH 315 (Sp17): Fundamentals of Analysis
- MATH 105 (F16, W18): University Mathematics I

Math Tutor, University of Oregon

#### **PAPERS**

- 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). <a href="https://doi.org/10.1007/s00477-022-02257-4">https://doi.org/10.1007/s00477-022-02257-4</a>
- 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. PhD Preliminary Exam Report on "Pair-based likelihood approximations for stochastic epidemic models". (2021). <a href="https://github.com/sdtemple/pblas">https://github.com/sdtemple/pblas</a>
- Temple, S.D. Text search informed by word frequencies and topic modeling: A human-machine collaborative approach to analyzing English text data from multilingual, multicultural students. (2021). <a href="https://github.com/sdtemple/coilnlp">https://github.com/sdtemple/coilnlp</a>
- Temple, S.D. The Tweedie Index Parameter and Its Estimator. (2018). <a href="https://math.uoregon.edu/wp-content/uploads/2018/07/TempleStempleTweedieThesis.pdf">https://math.uoregon.edu/wp-content/uploads/2018/07/TempleStempleTweedieThesis.pdf</a>
- Temple, S.D. Bean as Our Future: How *Ender's Shadow* Disputes the 1997 Backlash against Human Cloning. (2017). https://scholarsbank.uoregon.edu/xmlui/handle/1794/23493

## **CONFERENCES**

International Genetic Epidemiology Society Annual Meeting (presenter)	09/22
American Association of Anthropological Genetics Workshop on Computational Genetics	07/22
International Society of Bayesian Analysis (abstract accepted)	06/22
2021 Joint Statistical Meetings	08/21
25 <sup>th</sup> , 26 <sup>th</sup> Summer Institute in Statistical Genetics	07/20, 07/21
AAAS 2020 Annual Meeting	02/20
SAMSI Undergraduate Modeling Workshop	05/18
University of Oregon Undergraduate Research Symposium (presenter)	05/18
University of Oregon Undergraduate Research Symposium (presenter)	05/17
SAMSI Astrophysics Undergraduate Outreach	10/16
SERVICE	
UW STAT Social Committee Co-chair	06/20 - 06/22
UW STAT Book Club Organizer	Summer '20, '21
Homework Helper at Seattle Public Library	09/18 - 06/19
Homework Helper at Seattle Public Library Pride@Liberty West Zone	ŕ
·	09/18 - 06/19
Pride@Liberty West Zone	09/18 - 06/19 $02/19 - 08/19$
Pride@Liberty West Zone  Club Soccer President and Treasurer  Managed administration, finances, and social media for traveling team	09/18 - 06/19 $02/19 - 08/19$

## **SKILLS**

Software: Python, R, Excel, Unix, SQL, qsub (experienced); C++, Java, SAS, slurm (intermediate)

Languages: English (first), German (proficient)

## **COURSEWORK**

## University of Washington

- Advanced Regression Methods I-II
- Advanced Theory of Statistical Inference I-III
- Statistical Inference I-II
- Stochastic Modelling of Scientific Data I-II
- Theory of Linear Models
- Measure Theory
- Statistical Genetics I-II: Mendelian Inheritance and Quantitative Traits
- Statistical Genetics Seminar
- Introduction to Computational Biology
- Molecular Population Genetics and Evolution
- Statistical Consulting
- Statistics Student Seminar
- Reading Groups: Phylogenetics, Theoretical Evolutionary Biology, Survival Analysis

# University of Oregon

- Mathematical Statistics I-II
- Regression Analysis
- Stochastic Processes
- Point Set Topology
- Mathematical Cryptography
- Real Analysis
- Linear Algebra I-II
- Multivariable Calculus
- Differential Equations
- Introduction to Computer Science I-III
- Algorithms and Data Structures
- Data Science