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 MS degree in Statistics (concurrent; Autumn 2022) 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 A. 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

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). 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. PhD Preliminary Exam Report on "Pair-based likelihood approximations for stochastic epidemic models". (2021). https://github.com/sdtemple/pblas
- 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). https://github.com/sdtemple/coilnlp
- Temple, S.D. The Tweedie Index Parameter and Its Estimator. (2018). https://math.uoregon.edu/wp-content/uploads/2018/07/TempleStempleTweedieThesis.pdf
- 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 th , 26 th 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
Pride@Liberty West Zone	02/19 - 08/19
Club Soccer President and Treasurer	06/16 - 06/18
 Managed administration, finances, and social media for traveling team Leadership award for most outstanding club sports officer 	
Tutor at Looking Glass Community Services	04/17 - 06/17
d.a.i. Tübingen Rent an American Volunteer	04/15 - 08/15
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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 Consulting (1 term); Applied Consulting Project (1 term)
- 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
- Introduction to Computational Biology
- Molecular Population Genetics and Evolution
- **Advanced Human Genetics**
- Statistical Genetics Seminar (10 quarter terms)
- Statistics Student Seminar
- Reading Groups: Phylogenetics, Theoretical Evolutionary Biology, Survival Analysis
 - Organizer for lab journal club on phasing, IBD segment detection, population genetics

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

REFERENCES

Sharon R. Browning, PhD

UW Research Professor (Biostatistics)

Dissertation Advisor

Contact: sguy@uw.edu

Elizabeth Blue, PhD

UW Associate Professor (Medical Genetics)

Applied Consulting Project Client

Contact: em27@uw.edu

Kimberly A. Kaufeld, PhD

Los Alamos Statistical Scientist Intern Mentor, Co-author

Contact: kkaufeld@lanl.gov

Christopher Sinclair, PhD

UO Associate Professor (Mathematics)

Undergraduate Thesis Advisor

Contact: csinclai@uoregon.edu