

Seth D. Temple

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EDUCATION

PhD, Statistics, University of Washington	09/19 - Present
<ul style="list-style-type: none">Advised by Sharon BrowningNDSEG Fellow, NIH Predoctoral Trainee in Statistical GeneticsAlzheimer's Disease Sequencing Project Follow-Up Study	
BS, Mathematics, University of Oregon	09/14 – 06/18
<ul style="list-style-type: none"><i>Summa cum laude</i>, Phi Beta Kappa, Departmental Honors, Presidential ScholarHonors Thesis: "The Tweedie Index Parameter and Its Estimator"	
Committee: Chris Sinclair (chair), Peter Ralph, Samantha Hopkins	

RESEARCH & WORK

<i>Graduate Research Assistant, University of Washington</i>	09/20 – Present
<ul style="list-style-type: none">Developing methods to study recent evolution in human populationsStudying patterns of identity-by-descent in families affected by Alzheimer's	
<i>Graduate Research Assistant, Los Alamos National Laboratory</i>	06/20 – 09/20
<ul style="list-style-type: none">Advised by Dr. Kimberly KaufeldConstructed spatiotemporal occupancy models for vector epidemiologyApplied maximum entropy modeling for mosquito species distribution mapping	
<i>Actuarial Assistant, Liberty Mutual Insurance</i>	07/18 – 08/19
<ul style="list-style-type: none">Performed reserving analyses for the leading global suretyDeveloped SQL/SAS code to query claims databasePassed actuarial exams (MAS I, P, and FM)	
<i>Research Assistant, University of Oregon</i>	02/18 – 06/18
<ul style="list-style-type: none">Built neural nets in Python to predict punctuation for audio recordingsTrained <i>keras</i> models with graphical processing units	
<i>Actuarial Intern, Liberty Mutual Insurance</i>	06/17 – 09/17
<ul style="list-style-type: none">Created choropleth maps with R to visualize effects of a spatial smoothing algorithm	

TEACHING

<i>Lead Instructor (BIOST 550), University of Washington</i>	03/22 – 06/22
<i>Directed Reading Program, University of Washington</i>	09/20 – Present
<ul style="list-style-type: none">Mentor to 4 students, member of organizing and admissions committees	
<i>Teaching Assistant, University of Washington</i>	
<ul style="list-style-type: none">CSE/STAT 416 (Sp20): Introduction to Machine LearningSTAT 423/504 (W20): Applied Regression and Analysis of VarianceSTAT 421 (F19): Applied Statistics and Experimental Design	
<i>Teaching Assistant, University of Oregon</i>	
<ul style="list-style-type: none">MATH 467 (W18): Stochastic ProcessesMATH 315 (Sp17): Fundamentals of AnalysisMATH 105 (F16, W18): University Mathematics I	
<i>Math Tutor, University of Oregon</i>	09/14 – 06/17

PAPERS

- Gorris, Morgan E., Andrew W. Bartlow, Seth D. Temple, Daniel Romero-Alvarez, Deborah P. Shutt, Jeanne M. Fair, Kimberly A. Kaufeld, Sara Y. Del Valle, and Carrie A. Manore. "Updated distribution maps of predominant *Culex* mosquitoes across the Americas." *Parasites & Vectors* 14, no. 1 (2021): 1-13.
- Temple, Seth D., and Kimberly A. Kaufeld. "Bayesian time-varying occupancy model for West Nile virus in Ontario, Canada." (submitted)
- Temple, Seth D. "PhD Preliminary Exam Report on 'Pair-based likelihood approximations for stochastic epidemic models.'" (2021). <https://github.com/sdtemple/pblas>
- Temple, Seth 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, Seth D. "The Tweedie Index Parameter and Its Estimator." (2018). <https://math.uoregon.edu/wp-content/uploads/2018/07/TempleStempleTweedieThesis.pdf>
- Temple, Seth D. "Bean as Our Future: How *Ender's Shadow* Disputes the 1997 Backlash against Human Cloning." (2017).

CONFERENCES

2021 Joint Statistical Meetings	08/21
26 th Summer Institute in Statistical Genetics	07/21
25 th Summer Institute in Statistical Genetics	07/20
AAAS 2020 Annual Meeting	02/20
SAMSI Undergraduate Modeling Workshop	05/18
University of Oregon Undergraduate Research Symposium	05/18
University of Oregon Undergraduate Research Symposium	05/17
SAMSI Astrophysics Undergraduate Outreach	10/16

SERVICE

<i>UW STAT Social Committee Co-chair</i>	06/20 – Present
<i>UW STAT Book Club Organizer</i>	Summer '20, '21
<i>Homework Helper at Seattle Public Library</i>	09/18 – 06/19
<i>Pride@Liberty West Zone</i>	02/19 – 08/19
<i>Club Soccer President and Treasurer</i>	06/16 – 06/18
<ul style="list-style-type: none">▪ Managed administration, finances, and social media for traveling team▪ Leadership award for most outstanding club sports officer	
<i>Tutor at Looking Glass Community Services</i>	04/17 – 06/17
<i>d.a.i. Tübingen Rent an American Volunteer</i>	04/15 – 08/15

SKILLS

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

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