Seth Temple

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EDUCATION

PhD, Statistics, University of Washington 09/19 - Present
- Research advised by Sharon Browning and Timothy Thornton
- NDSEG Fellow (Class of 2021)
- NIH Predoctoral Trainee in Statistical Genetics
- Alzheimer's Disease Sequencing Project Follow-Up Study

BS, Mathematics, University of Oregon 09/14 – 06/18
- *Summa cum laude*, Phi Beta Kappa, Departmental Honors, Presidential Scholar
- Honors Thesis: "The Tweedie Index Parameter and Its Estimator"
    - Committee: Chris Sinclair (chair), Peter Ralph, Samantha Hopkins

WORK EXPERIENCE

Graduate Research Assistant, University of Washington 09/20 – Present

Graduate Research Assistant, Los Alamos National Laboratory 06/20 – 09/20
- Advised by Dr. Kimberly Kaufeld
- Studied spatiotemporal occupancy models for vector epidemiology
- Applied maximum entropy modeling for mosquito species distribution mapping
- Collaborated with environmental scientists, ecologists, and epidemiologists

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 actuarial exams (MAS I, P, and FM)

Research Assistant, University of Oregon 02/18 – 06/18
- Advised by Stephen Fickas, Professor of Computer Science
- Read Understand Learn Excel (RULE) NSF grant
- 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 – 09/17
- Created choropleth maps with R to visualize effects of a spatial smoothing algorithm

TEACHING

Teaching Assistant, University of Washington
- 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 09/14 – 06/17

SKILLS

Software: Python, R, Excel, SQL, Unix, C++, Java, SAS

Languages: English (native), German (proficient)

SERVICE

UW STAT Directed Reading Program	09/20 – Present

- Developed 1 curriculum; mentored 3 students
- Organizing and Admissions Committees

UW STAT Social Committee Co-chair	06/20 – Present
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

- Managed volunteer events with local nonprofits for employee resource group

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

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

- Regression Analysis
- Stochastic Processes
- Point Set Topology
- Mathematical Cryptography

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." (under review)

Temple, Seth D. "The Tweedie Index Parameter and Its Estimator." (2018).

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
26th Summer Institute in Statistical Genetics	07/21
25th 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