Seth Temple

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EDUCATION

PhD, Statistics, University of Washington   Sept '19 - Present
- Research advised by Sharon Browning
- Statistical Genetics Pathway

BS, Mathematics, University of Oregon   Sept '14 - June '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, Los Alamos National Laboratory   July '20 – Sept '20
- Studied spatiotemporal occupancy models for vector epidemiology
- Applied maximum entropy modeling for mosquito species distribution mapping
- Presented work to Statistical Sciences group
- Collaborated with environmental scientists, ecologists, and epidemiologists

Actuarial Assistant, Liberty Mutual Insurance   July '18 – Aug '19
- Performed reserving analyses for the leading global surety
- Developed SAS/SQL code to query claims databases
- Reviewed literature of stochastic reserving techniques
- Passed actuarial exams (MAS I, P, and FM)

Research Assistant, University of Oregon   Feb – July '18
- Advised by Stephen Fickas, Professor of Computer Science
- Read Understand Learn Excel (RULE) NSF grant 1640492
- Built neural nets in Python to predict punctuation and generate summaries of excerpts
- Trained *keras* models with graphical processing units

Actuarial Intern, Liberty Mutual Insurance   June – Sept '17
- Created choropleth maps with R to visualize effects of a spatial smoothing algorithm
- Interpreted outputs from generalized linear modeling (GLM)

TEACHING

Teaching Assistant, University of Washington
- STAT 421 (F19): Applied Statistics and Experimental Design
- STAT 423/504 (W20): Applied Regression and Analysis of Variance
- CSE/STAT 416 (Sp20): Introduction to Machine Learning

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   June '14 – Sept '17

PAPERS

"Modeling virus occupancy despite imperfect detection: A study of West Nile virus in Ontario" (in progress)

"Species distribution maps of *Culex* mosquitos, important vectors of West Nile virus" (in progress)

"The Tweedie Index Parameter and Its Estimator" (undergraduate honors thesis)

"Bean as Our Future: How Ender's Shadow Disputes the 1997 Backlash against Human Cloning"

- Awarded most outstanding honors paper

CONFERENCES

25th Summer Institute in Statistical Genetics (SISG)	July 15 – 29, '20

- Attendance made possible by NSF grant DEB 2016186

AAAS 2020 Annual Meeting (session aide)	Feb 13 – 16, '20
SAMSI Undergraduate Modeling Workshop	May 21 – 25, '18

- Modeled extreme value rainfall events in R
- Leveraged *fields* package to perform spatial smoothing
- Oral presentation of results to workshop audience

University of Oregon Undergraduate Research Symposium	May 17, '18
University of Oregon Undergraduate Research Symposium	May 18, '17
SAMSI Astrophysics Undergraduate Outreach	Oct 24 – 26, '16

SERVICE

UW STAT Directed Reading Program Mentor	Sept '20 – Present
UW STAT Book Club Organizer	June '20 – Sept '20
UW STAT Fun Committee Co-chair	June '20 – June '21
Homework Helper at Seattle Public Library	Sept '18 – June '19
Pride@Liberty West Zone	Feb – Aug '19

- Managed volunteer events with local nonprofits for employee resource group

Club Soccer President and Treasurer	June '16 – June '18

- Managed administration, finances, and social media for traveling team
- Leadership award for most outstanding club sports officer

Tutor at Looking Glass Community Services	Apr – June '17
d.a.i. Tübingen Rent an American Volunteer	Apr – Aug '15

SKILLS

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

Languages: English (native), German (proficient)

COURSEWORK

University of Washington

- Advanced Regression Methods (F20-W21)
- Advanced Theory of Statistical Inference I-III (F20-Sp21)
- Statistical Inference I-II (F19, W20)
- Stochastic Modelling of Scientific Data I (F19)
- Statistical Genetics I-II: Mendelian Inheritance and Quantitative Traits (F19, Sp20)
- Introduction to Computational Biology (W20)
- Theory of Linear Models (Sp20)
- Measure Theory (Sp20)
- Statistical Genetics Seminar (F19, W20, Sp20)

University of Oregon

- Regression Analysis (Sp17)
- Stochastic Processes (W17)
- Point Set Topology (F16)
- Mathematical Cryptography (Sp16)