

Seth Temple

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EDUCATION

- PhD, Statistics, University of Washington 09/19 - Present
- Research advised by Sharon Browning and Timothy Thornton
 - NIH TM32 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 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* 02/18 – 06/18
- 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* 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

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” (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) 07/20
- Attendance made possible by NSF grant 2016186
- AAAS 2020 Annual Meeting (session aide)
- SAMSI Undergraduate Modeling Workshop 05/18
- 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 05/18
- University of Oregon Undergraduate Research Symposium 05/17
- SAMSI Astrophysics Undergraduate Outreach 10/16

SERVICE

- UW STAT Directed Reading Program Mentor* 09/20 – Present
- UW STAT Book Club Organizer* 06/20 – 09/20
- UW STAT Social Committee Co-chair* 06/20 – 06/21
- 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

SKILLS

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

Languages: English (native), 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
- Theory of Linear Models
- Measure Theory
- Statistical Genetics I-II: Mendelian Inheritance and Quantitative Traits
- Statistical Genetics Seminar
- Introduction to Computational Biology

University of Oregon

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