Seth Temple

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EDUCATION

PhD, Statistics, University of Washington   Sept '19 - Present

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

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
- NSF-funded Read Understand Learn Excel (RULE) grant
- Built neural nets in Python to predict punctuation and generate verbal summaries of excerpts
- Collected and processed raw text data
- 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 modelling (GLM)
- Explored explanatory variables in a GLM framework

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

SKILLS

Computer Languages: Python, R, SQL, C++, Java

Software & Tools: Excel, LaTeX, SAS, PLINK, HTML

Human Languages: English (native), German (proficient)

COURSEWORK

University of Washington

- 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)

SERVICE

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 24 person travelling team
- Sandy Vaughn 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

CONFERENCES

The Allied Genetics Conference 2020 (online attendee)   April 22 – 25, '20

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

"The Sum of My Parts: A Genetic Inquiry with 23andMe" (oral)

"The Infrastructure of Settler Colonialism: Roads, Dams, and Sawmills at Warm Springs" (oral)

University of Oregon Undergraduate Research Symposium   May 18, '17

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

Published in [Oregon Undergraduate Research Journal, Volume 11, No. 1](#); most outstanding honors paper

SAMSI Astrophysics Undergraduate Outreach   Oct 24 – 26, '16