

# Seth Temple

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## EDUCATION

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- 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

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- 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

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- 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

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Software: Python, R, Excel, SQL, Unix, C++, Java, SAS (in order of decreasing proficiency)

Languages: English (native), German (proficient)

## SERVICE

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<i>UW STAT Directed Reading Program Mentor</i>	09/20 – Present
<i>UW STAT Book Club Organizer</i>	06/20 – 09/20
<i>UW STAT Social Committee Co-chair</i>	06/20 – 06/21
<i>Homework Helper at Seattle Public Library</i>	09/18 – 06/19
<i>Pride@Liberty West Zone</i>	02/19 – 08/19
<ul style="list-style-type: none"><li>▪ Managed volunteer events with local nonprofits for employee resource group</li></ul>	
<i>Club Soccer President and Treasurer</i>	06/16 – 06/18
<ul style="list-style-type: none"><li>▪ Managed administration, finances, and social media for traveling team</li><li>▪ Leadership award for most outstanding club sports officer</li></ul>	
<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

## COURSEWORK

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### 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

## PAPERS

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- “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”
- “Bean as Our Future: How Ender’s Shadow Disputes the 1997 Backlash against Human Cloning”
- Awarded most outstanding honors paper

## CONFERENCES

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26 <sup>th</sup> Summer Institute in Statistical Genetics	07/21
25 <sup>th</sup> Summer Institute in Statistical Genetics	07/20
AAAS 2020 Annual Meeting (session aide)	02/20
SAMSI Undergraduate Modeling Workshop	05/18
<ul style="list-style-type: none"><li>▪ Modeled extreme value rainfall events in R</li><li>▪ Leveraged <i>fields</i> package to perform spatial smoothing</li><li>▪ Oral presentation of results to workshop audience</li></ul>	
University of Oregon Undergraduate Research Symposium	05/18
University of Oregon Undergraduate Research Symposium	05/17
SAMSI Astrophysics Undergraduate Outreach	10/16