

# Elizabeth Anne Sigworth

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## Education

**Vanderbilt University, Dept. of Biostatistics, Nashville, TN**      **September 2016 – Present**

- PhD in Biostatistics (in progress)
- 3.89 GPA
- Relevant coursework:
  - Methods of Modern Biostatistics
  - Fundamentals of Probability
  - Epidemiologic Theory and Methods
  - Introduction to Study Design
  - Introduction to Statistical Computing
  - Contemporary Statistical Inference
  - Modern Regression Analysis
  - Clinical Trials and Experimental Design
  - Advanced Regression Analysis I
  - Applied Survival Analysis
  - Advanced Concepts in Probability and Real Analysis
  - Statistical Collaboration in the Health Sciences

**St. Olaf College, Northfield, MN**

**September 2012 – May 2016**

- BA in Mathematics
- Concentration in Statistics
- 3.83 GPA
- Relevant coursework:
  - Statistical Modeling
  - Real Analysis I
  - Real Analysis II
  - Probability Theory
  - Biology
  - Organic Chemistry
  - Physics
  - Computer Science

## Scholarships and Honors

### Scholarships

- Vanderbilt University Graduate Tuition and Stipend Award – awarded by Vanderbilt University Department of Biostatistics to PhD students
- St. Olaf Buntrock Scholarship – awarded by St. Olaf College to students with strong academic performance and extracurricular achievement throughout high school
- St. Olaf National Merit Scholarship – awarded by St. Olaf College to National Merit Finalists
- National Merit \$2500 Scholarship – awarded to qualifying students based on National Merit Finalist status as well as high school achievement

### Honors

- St. Olaf College Dean's List: Fall 2012, Spring 2013, Spring 2014, Fall 2014, Spring 2016

## **Employment History**

### **St. Olaf College Academic Support Center Statistics Tutor      September 2015 – May 2016**

- Tutored students on a weekly basis in statistical concepts and R computer coding
- Met with professor to discuss course expectations and student progress

### **St. Olaf College Mathematics Department Grader      September 2014 – May 2016**

- Graded weekly assignments and provided feedback for introductory statistics courses
- Consulted with professor on grading criteria and weekly class content

### **St. Olaf College Admissions Department Student Worker      July 2014 – May 2016**

- Gave tours to prospective students and families, scheduled visits and overnights, answered phone calls, met with students interested in math and science, called students to follow up after visits, organized Visit Days

### **Special Needs Summer Caregiver      June 2011 – August 2013**

- Provided care for a developmentally-challenged and autistic young boy

## **Research Experience**

### **Individual Research      June 2017 – Present**

- Currently working on a pharmacokinetic/pharmacodynamics modeling project under Professor Matthew Shotwell, Vanderbilt University

### **Mathematics Practicum      January 2016**

- Modeled impact of insurance plan and provider types on hospital revenue and patient volumes

### **University of Iowa Summer Institute in Biostatistics      June 2014 – July 2014**

- Completed coursework and computer training in clinical trials, translational research, and biomedical modeling
- Gained biostatistics research experience under Dr. Joe Cavanaugh, Director of Graduate Studies
- Presented final project titled “An Analysis of Indicators for High Risk Behavior in Adolescents Based on the Iowa Youth Survey”

## **Volunteer Experience**

### **Laura Baker Services Taiko Instructor      March 2013**

- Taught Taiko drumming to a group of disabled adults at an assisted living facility through the St. Olaf College Taiko Drumming Club

### **Nightingale Project Student Mentor      September 2012 – May 2013**

- Met weekly with a sixth grade girl to talk about school and complete craft projects
- Met monthly with other mentors and mentees to complete community outreach projects

## **Study Abroad Experience**

- University of Sheffield, England
- Number Theory in Budapest, Hungary

**February 2015 – June 2015**  
**January 2014**

## **Skills**

- Ability to program in R, SAS, STATA, and Python
- Extensive experience with Microsoft OS and EndNote
- Skilled in LaTeX and Beamer document preparation
- Practice with scientific and proof writing and revision
- Research and collaboration experience
- Working proficiency in Spanish