

Tyler Johnson

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Education

2013–2018 **M.S. in mathematics**, *University of Utah*, Salt Lake City, UT.

Passed oral examination on project in R simulation of online detection using eigenvalues of empirical covariance matrices in the changepoint problem.

Passed qualifying examinations in Real & Complex Analysis; Probability; and Statistics.

Highlighted coursework

- Linear & Multilinear Models
- Time Series Analysis
- Mathematical Statistics
- Statistical Inference I & II
- Mathematical Probability
- Real Analysis

2009–2013 **B.S. in mathematics**, *University of Georgia*, Athens, GA.

3.99 GPA, Summa Cum Laude, with highest honors

Scholarships

- University Charter
- Robert C. Byrd Honors
- HOPE

Teaching

2013–2018 **Graduate Student Instructor**, *University of Utah*.

Independently maintained planning and execution of each course, except where otherwise noted. Created course materials, including exams and quizzes, designing a large number of homework assignments personally. Class sizes of up to 50 students. In the Applied Statistics course sequence, developed an integrated lecture/active learning course style, relying heavily on student motivated “Group Fun” assignments to complete course objectives, and incorporated demonstrations and activities using R to bridge a gap between the lecture and lab.

Received a letter of commendation from the LDS Student Association for excellence as an instructor in Spring 2017.

- *Math 2210, Calculus III* (Summer 2018)
- *Math 3080, Applied Statistics II* (Spring 2018)
- *Math 3070, Applied Statistics I* (Summer 2015, Spring, Summer, & Fall 2017)
- *Math 3170, R Lab I* (Summer 2015, Summer 2017)
- *Math 1070, Introduction to Statistical Inference* (Fall 2016)
- *Math 1210, Calculus I* (Spring 2015)
- *Math 1090, College Algebra for Business & Social Sciences* (Fall 2014)
- *Math 1030, Introduction to Quantitative Reasoning* (Spring, Summer 2014)
- *Math 2210, Calculus III* (Fall 2013) - **Teaching Assistant**

2013–present **Tutor**, *University of Utah*.

Responsibilities in the Department of Mathematics Tutoring Center, approximately 1 hour per week.

2015,2016 **Tutor**, *Chicago, IL*.

- Tutored a large number of high school students in a variety of topics, including statistics, calculus, algebra, geometry, writing, and ACT preparation in all subjects
- Led groups of 5-8 students in ACT preparation
- Contracted by the Schuler Scholars Program through Academic Tutoring Centers to visit classes of 10-30 students at over 20 high schools in the greater Chicago area to improve skills in science and mathematics

Various

- UGA MathCounts Outreach Headcoach, 2010-2013. Led groups of undergraduate students and designed activities for weekly meetings with local middle school students and helped prepare for the UGA MathCounts competition.
- Gave presentation, "Guessing Polynomials with Integer Coefficients" to Graduate Student Colloquium, Undergraduate Math Colloquium in 2016.
- Fluency in R, \LaTeX . Working knowledge of Python, C/C++, Mathematica, Java.
- Participated in the 2012 University of Washington Summer REU on Inverse Problems.