

Matt Jones

GRADUATE STUDENT

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Education

Dartmouth College

MASTER'S DEGREE IN MATHEMATICS

Hanover, NH

March 2019

Arizona State University

BACHELOR OF SCIENCE IN PHYSICS, GPA: 4.0/4.0

Tempe, AZ

May 2017

- Minor in Mathematics
- **University of Glasgow**, Glasgow, UK — *Semester Abroad Spring 2015*

Skills

Areas of study Networks, Evolutionary Dynamics

Programming Python, Matlab, Mathematica

Experience

Dartmouth College

MATH 8 PROFESSOR

Hanover, NH

Sept. 2019 - Nov. 2019

- Teach single and multi variable calculus to a class of approximately 40 students
- Write homework and exams
- Write lesson plans/lecture notes

Dartmouth College

TEACHING SEMINAR

Hanover, NH

June 2019 - Aug. 2019

- Learn various pedagogical techniques and schools of thought
- Practice lecturing and addressing student difficulties
- Practice designing a syllabus and writing lesson plans
- Run two week-long math camps for local high school students

Dartmouth College

TEACHING ASSISTANT

Hanover, NH

Sept. 2017 - Mar. 2018

- Math 13 - Fall 2017
- Math 23 - Winter 2018
- Math 76 - Summer 2018
- Math 23 - Winter 2019

New School for the Arts and Academics

TEACHING INTERN

Tempe, AZ

Jan. 2016 - May 2016

- Interned in a middle-school math classroom
- Helped students solve problems during work time
- Lectured on math topics

Arizona State University

LEARNING ASSISTANT

Tempe, AZ

Sept. 2015 - May 2017

- Helped students work through problems in a flipped-classroom setting
- Held office hours to address students' problems
- Graded daily homeworks
- Gave occasional lectures

Projects

Dartmouth Math Camps

Hanover, NH

July 2019 - Aug. 2019

- Choose lecture topics, write lesson plans, and design in-class activities
- Give lectures to a group of high school students
- Work with other grad students to run the camp

Undergraduate Honors Thesis

Tempe, AZ

Jan. 2016 - May 2017

- Wrote my undergraduate honors thesis on undergraduate physics classes
- Extensively studied the mathematical difficulties and misconceptions of introductory physics students
- Topics included algebra, trigonometry, systems of equations, and vectors
- Designed and administered diagnostic tests to hundreds of students
- Conducted one-on-one interviews with dozens of students to probe their understanding of how to solve math problems
- Presented my findings in 43 page paper

Honors / Awards

Graduated Summa Cum Laude

Tempe, AZ

May 2017

- Bachelors, Arizona State University