Matt Jones

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Education

Dartmouth College Hanover, NH

MASTER'S DEGREE IN MATHEMATICS March 2019

Arizona State University

Tempe, AZ

Sept. - Nov. 2019, March - June 2021

BACHELOR OF SCIENCE IN PHYSICS, GPA: 4.0/4.0

May 2017

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

Skills _____

Areas of study Networks, Evolutionary Dynamics, Game Theory, Social Systems

Programming Python, Matlab, Mathematica

Experience _____

Dartmouth College Hanover, NH

MATH PROFESSOR

- Teach single and multi variable calculus (2019) and linear algebra (2021)
- · Write homework and exams
- · Write lesson plans/lecture notes
- · Lecture and lead discussion groups

Dartmouth College Hanover, NH

TEACHING SEMINAR 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 Hanover, NH

Sept. 2017 - Mar. 2018 TEACHING ASSISTANT

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

New School for the Arts and Academics

Tempe, AZ

TEACHING INTERN 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

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 _____

LEARNING ASSISTANT

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

Talks _

eSMB Annual Meeting 2020

SPATIAL GAMES OF FAKE NEWS Aug. 2020

Dartmouth Applied and Computational Math Seminar

Hanover, NH

VOTER PREFERENCE AND PARTY IDEOLOGICAL SHIFTS

Oct. 2020

Yale Human Nature Lab

RANDOM BEHAVIOR IN COLLECTIVE NETWORK COLLORING PROBLEMS

April 2021

Poster Presentations _____

SIAM Annual Meeting 2020

SPATIAL GAMES OF FAKE NEWS

July 2020

 IC^2S^2 2020

SPATIAL GAMES OF FAKE NEWS

July 2020

Publications _

Random Choices can Facilitate the Solving of Collective Network Coloring Problems by Artificial Agents

iScience

MATTHEW I. JONES, SCOTT D. PAULS, FENG FU

March 2021

Polarization, Abstention, and the Median Voter Theorem

MATTHEW I. JONES, ANTONIO D. SIRIANNI, FENG FU

Preprint

Honors / Awards _

Graduated Summa Cum Laude

Tempe, AZ

May 2017

· Bachelors, Arizona State University