Atticus Christensen

Mathematician transitioning to tech

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Personal

I am a graduating math PhD shifting into tech. I am seeking to apply analytical skills from my PhD to challenging problems in data science, machine learning, and application of algorithms. My PhD research focused on number theory, an area which underpins current approaches to cryptography.

Education

Massachusetts Institute of Technology

Ph.D. in Mathematics. 5.0/5 GPA   *Sept 2015 - present*

Stanford University

B.S. in Mathematics. 3.973/4 GPA   *Sept 2011 - June 2015*

Work Experience

Research Assistant

Massachusetts Institute of Technology   *Sept 2015 - present*

- Completed two independent research projects in mathematics using cutting edge techniques
- Tested mathematical hypotheses computationally in Sage
- Organized seminars on seminal and contemporary research
- Presented at research seminars and conferences

Teaching Assistant

Massachusetts Institute of Technology   *Sept 2015 - present*

- Taught recitations, prepared worksheets, and held office hours
- Focused on understanding students' difficulties and tailored instruction towards those areas
- Received excellent teaching evaluations

Mentoring

Massachusetts Institute of Technology

- Mentored two undergraduate students' research projects; each successfully completed their project and is working towards publishing the result
- Mentored two high school students in advanced mathematics; one went on to do research in the field

Publications

A Topology on Points on Stacks

Submitted for publication. Preprint at `https://math.mit.edu/~atticusc/topstacks.pdf`

Specialization of Néron-Severi Groups in Characteristic p

Submitted for publication. Preprint at `https://arxiv.org/abs/1810.06550`

Notable Courses

Stanford CS

Methodology (106a), Abstractions (106b), Systems (107), Algorithms (161), Cyptography (255 and 355)

Mathematics

Measure Theory, Number Theory (elliptic curves and abelian varieties), Linear Algebra, Modal Logic

Technical Skills

Languages

Python, Ruby on Rails, Java, HTML/CSS, Matlab, C++, C, Mathematica, Sage

Tools

git, GitHub, bash, LaTeX, GNU/Linux

Languages

English: native **Italian:** fluent **French:** proficient