Atticus Christensen

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Work Experience

September 2015 – Present
Massachusetts Institute of Technology
Research Assistant

Completed two independent research projects applying cutting edge techniques to both long-standing and novel mathematical problems. Organized seminars on seminal and contemparary research. Spoke at research seminars and conferences.

September 2015 – Present
Massachusetts Institute of Technology
Teaching Assistant

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

Mentorship

Mentored two undergraduates on research projets. Both completed the projected and are working towards publishing the results. Mentored two high school students in advanced mathematics. One went on to do research in the field.

Research

Worked at the intersection of number theory and algebraic geometry. Studied p-adic cohomology and p-adic geometry, topic with many application to the study of polynomials and in particular elliptic curves and their generalizations.

Keywords: Number theory, algebraic geometry, elliptic curves, abelian varieties, polynomials

Publications

A Topology on Points on Stacks
Submitted for publication. Available at https://arxiv.org/abs/1810.06550

Specialization of Néron-Severi Groups in Characteristic p
Submitted for publication. Available at https://arxiv.org/abs/1810.06550

Personal

Math PhD shifting to tech. Seeking to apply analytical skills from PhD to challenging problems in data science, machine learning, and application of algorithms.

Education

2017 – Pres.	**Mathematics, Ph.D.** 5.0 GPA *MIT*
2011 – 2015	**Mathematics, B.S;** 3.972 GPA *Stanford University*

Notable Coursework

Math	Measure Theory, Number Theory, Modal Logic
Stanford CS	Methodology (106a), Abstractions (106b), Systems (107), Algorithms (161), Cyptography (255 and 355)

Technical Skills

Languages	Python, Java, C, C++, Matlab, Ruby on Rails, Mathematica
Tools	git, GitHub, LaTeX, GNU/Linux

Languages

English	Native
Italian	Fluent
French	Proficient