

DYLAN T. YOTT

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EDUCATION

Boston University

Candidate for B.A. in Mathematics · Cumulative GPA: 3.8/4.0

Boston, MA

Graduation: May 2014

UC Berkeley

Ph. D Candidate in Number Theory

Berkeley, CA

Graduation: 2019

Thesis: Special Cycles on GSpin Shimura Varieties

EMPLOYMENT

Morgan Stanley

Quantitative Associate

New York, NY

Summer 2018, May 2019-Present

- Delivered web applications to traders and other quants in a full stack environment with Python/q back end and AngularJS front end
- Worked with management, technology, and trading to navigate SOFR transition, mostly notably through tools built in Scala
- Proposed and brought to production a new model for short end rates using regularized regression
- Streamlined yield curve maintenance by providing model specifications for curve structure and automating their generation
- Showed leadership by providing quick and decisive guidance during major production issues
- Aided in hiring and development via on-campus presentations, panel discussions, and direct mentorship and interns

University of California Berkeley

Graduate Student Instructor

Berkeley, CA

Fall 2014-Spring 2019

- Taught courses such as Linear Algebra, Calculus, Differential Equations, Number Theory and Discrete Mathematics
- Served as lead TA for several courses, as a mentor for many undergraduates in reading courses, and as member of the graduate student association responsible for coordinating department events

Art of Problem Solving

Teacher

San Diego, CA

Spring 2015-Spring 2019

- Taught courses such as probability, precalculus and algebra to middle and high school students in an online environment

PROGRAMMING EXPERIENCE

- **Python:** User of numpy, scipy, pandas. Built asynchronous applications with AngularJS and Discord (Chat Platform) APIs
- **JavaScript:** AngularJS for work applications, recreationally built fully interactive real-time multiplayer games using the MERN stack (MongoDB, Express, React, Node.js) with websockets
- **Scala:** Developed applications on a proprietary Scala-based stack
- **Q:** Built queries to be carried out asynchronously for use in web applications

PUBLICATIONS AND PRESENTATIONS

- January 2014: “Maximal Varieties over Finite Fields arising from Algebraic Groups and ℓ -adic Representations of their Symmetry Groups”, **Joint Mathematics Meetings**, Outstanding Poster Award.
- May 2019: “Special Cycles on GSpin Shimura Varieties”, **UC Berkeley**, Senior Thesis.
- April 2020: “Generating series of a new class of orthogonal Shimura varieties”, **Algebra and Number Theory**, joint with Eugenia Rosu.

HOBBIES

- Played roller hockey and ice hockey for 10+ years
- Indoor bouldering since 2018
- Avid player of board games such as Spirit Island and Terraforming Mars