

BENJAMIN CALDWELL

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EDUCATION

University of Chicago

PhD Student

Ongoing, expected graduation 2025

Department of Computer Science

New College of Florida

Honors College of the State University System

Major: Pure Mathematics

Graduation Date: May 2020

Department of Pure Mathematics

TEACHING

TA

- Calculus I TA (Fall 2017)
Helped run workshops and explained subject in an easy to digest format for students.
- Quantitative Resource Center Mathematics Tutor (Fall 2017 - February 2020)
Tutored college aged students in subjects ranging from computationally focused courses like Calculus to proof focused courses like Complex Analysis.
- Real Analysis TA (Fall 2019)
Ran workshops, proctored exams, and gave feedback on students homework. Was open to students for questions any time during the semester.
- CMSC 16100 Honors Intro to programming (Fall 2020)
Ran office hours helping to teach students Haskell and general functional programming ideas in a remote course.
- MPCS 50103 Discrete Math (Winter 2021)
Ran office hours and graded discrete mathematics homework for the UChicago CS Masters program.
- CMSC 15100 Intro to Programming (Spring 2021)
Ran office hours, labs, and graded for Professors Tim Black and John Reppy.
- CMSC 16100 Honors Intro to programming (Fall 2021)
Ran office hours, labs, and graded for Professors Stuart Kurtz and Ravi Chugh.

RESEARCH

The Leadership Alliance SR-EIP

(June 2019 - August 2019)

University of Chicago

- Worked under the mentorship of Professor Stuart Kurtz, studying proof assistants and type theory.
- Worked through two textbooks learning Idris and Pi
- Produced a short talk which I gave at the Leadership Alliance National Symposium, the University of Chicago Summer STEM Conference, and once at the New College of Florida Math Seminar.
- Produced a short paper cataloguing my work on a project in Idris to create proofs of the basic statements of Group theory.

TECHNICAL SKILLS

Proficient in LaTeX

Programming Languages:

Haskell

Java

Python

Coq

Idris