KAY THOMPSON

Chicago, IL & kayt3@uic.edu & kaythmp.github.io

EDUCATION

University of Illinois at Chicago

2022 - Present

PhD in Mathematics

University of Illinois at Urbana-Champaign

2018 - 2022

Bachelor of Science in Mathematics with Highest Distinction Minor in Physics

EXPERIENCE

Theorem Proving in Lean

2020 - 2021

Illinois Geometry Lab

Urbana, IL

- Worked with faculty mentor Philipp Hieronymi to formalize model theory into Lean, an interactive theorem
 proving language built on type theory.
- github.com/vaibhavkarve/igl2020

Student Lab Worker

2021

University of Illinois Nuclear Physics Laboratory

Champaign, IL

- Assisted in the development of materials for the sPHENIX project at Brookhaven National Lab

TEACHING

Teaching Assistant, Math 121 Precalculus (UIC) Led three discussion sections of 20 students each through weekly worksheets, presentations, and quizzes. Fostered an active learning environment during group work time and prepared short topical lectures for each section. Graded exams and quizzes.

Grader, Math 213 Discrete Math (UIUC) Graded homework and exams of over 70 students, providing meaningful feedback in a timely manner. Held office hours to assist students with homework, exam preparation, and general understanding of the course content.

TALKS

Louise Hay Logic Seminar The Topos-Theoretic Approach to Forcing

21 Nov, 2022

SERVICE

OSTEM UIUC

2020 - 2022

- Provided guidance on academic and career planning for younger LGBT students in STEM.

Hesed House Homeless Shelter Aurora, IL

2011-2018

- Organized the donation of over \$2,000 of necessary materials, then planned and executed a project constructing warehouse shelving for the shelter.
- Provided guests with a welcoming, friendly environment and assisted with meal service and preparation.