

Hanzhang Yin

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Education

University of Connecticut

Bachelor of Arts, Mathematics (Expected May 2023)

August 2019 – Present

Storrs, CT, USA

Research Experience

Undergraduate Research on Combinatorics

University of Connecticut

- Researched on Homomorphism Properties on the Toggling of Dominating Sets of Path Graphs.
- Generated and analyzed data in Sagemath.
- Mentor: Thomas Roby & Matthew Plante

September, 2022 – Present

Storrs, CT, USA

Applied Mathematics Research Program for Undergraduates (AMRPU)

Florida International University

- Researched on Domination Number of Cartesian Product of Complete Graphs.
- Generated data in python and report progress weekly.
- Mentor: Walter Carballosa Torres & Justin Wisby.

May, 2022 – July, 2022

Miami, FL, USA

Direct Reading Project

University of Connecticut

- Self-studied topics in combinatorics under a graduate student's guidance.
- Prepared weekly presentations.
- Mentor: Matthew Plante.

September, 2021 – May, 2022

Storrs, CT, USA

Publication (In Preparation)

(with L. Busch, G. Silewski, W. C. Torre, and J. Wisby) "Domination Number of Cartesian Product of Complete Graphs" [Link](#) (preprint)

Presentations & Talks

University of Utah, AMS Fall Western Sectional Meeting, Salt Lake City, UT, "Domination Number of Cartesian Product of Complete Graphs", 22 October 2022

Florida International University, AMRPU Presentation, Miami, FL, "Using Chessboards to investigate an Unsolved Conjecture in Graphs", 15 July 2022

University of Connecticut, Direct Reading Project Presentation, Storrs, CT, "Some Topics in Algebraic Combinatorics (Young Tableaux)", 10 May 2022

University of Connecticut, Direct Reading Project Presentation, Storrs, CT, "Some Topics in Algebraic Combinatorics (Count Walks on Graphs)", 16 December 2021

Work Experience

University of Connecticut Quantitative Learning Center

Mathematics Tutor

- Served for the students who needs help with calculus homework and exams.
- Reviewed learning schedule and supplied guidance for class curriculum.
- Discussed common math questions that students asked and prepared review sessions.

February, 2021 – March, 2021

Storrs, CT, USA

Volunteer Experience

Brain Ventricle Project

September, 2021 – May, 2022

Connecticut Children's

CT, USA

- Identified, scanned, and labeled the ventricles from hundreds of CT images for training artificial intelligence.
- Assigned work to co-workers and discussed how to eliminate mistakes from scanning.
- Reviewed the progress of volunteers, rearranged their works, and collected and organized data for analysis.

Leadership & Involvement

UConn Student Union

August, 2021 – Present

Building Operation Assistant & Event Manager & Ambassador

Storrs, CT, USA

- Served for the attendees of the events at the Student Union.
- Managed different departments which solved problems and handled accidents.
- Managed students' activities and monitored events on campus.

Awards & Honors

Conference Presentation Awards

University of Connecticut

October 2022

2021 New English Scholar

University of Connecticut

Spring & Fall 2021

Dean's List

University of Connecticut

Spring & Fall 2021

Specialized Skills

Applications: MS Excel, MS Word, Google Sheets, Google Docs, R studio, Jupyter Notebook, Github

Programming Languages: Unix, Python, R, SQL, Sagemath, L^AT_EX, HTML

Languages: English (Fluent), Chinese (Native-speaker)