

Ziyang Qin

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Cornell University

Ithaca, NY

Senior, Mathematics

Nanjing Foreign Language School

Nanjing, CN

Experience

Cornell Design and Augmented Intelligence Lab

Ithaca, NY

Research Assistant & Summer Research Fellow

Oct 2023 - Sep 2024

- Train and evaluate Dynamic Bayesian Networks and Bayesian networks to predict people's uncertainties under experiment circumstances.
- Developed a python toolbox library to facilitate researchers in Dynamic Bayesian Network.
- https://github.com/qinz1yang/DAIL_toolbox
- Selected as recipient of the 2024 Cornell CIDS Summer Research Stipend and summer research fellow.

Cornell MATH 4901 Supervised Reading

Aug 2024 - Dec 2024

- Supervisor: Xin Zhou
- Topic: Differential Geometry
- 2024 Fall report: Proof to the Fary-Milnor Theorem

Cornell MATH 4901 Supervised Reading

Jan 2025 - May 2025

- Supervisor: Daniel L. Stern
- Topic: Measure Theory & PDE & Differential Geometry
- 2025 Spring report: Isoperimetric Inequality

Book Assistant, *Differential Geometry and Applications*

Summer 2025

Differential Geometry and Applications by Richard Hamilton, Monique Chyba, and Xiaodong Cao

- Composed, typed, and formatted examples and theorem proofs in \LaTeX for the manuscript.

Independent Reading

Summer 2025

- Supervisor: Xiaodong Cao
- Topic: Minimal Surfaces, Ricci Flow, Riemannian Geometry.

Cornell MATH 4901 Supervised Reading

Aug 2025 - Dec 2025

- Supervisor: Xin Zhou
- Topic: Morse Theory

Awards

United States of America Mathematical Olympiad(USAMO)

Qualifier

United States of America Computing Olympiad(USACO)

Gold Division

American Regions Mathematics League(ARML)

National Top 100 Individuals, Global Top 100 Teams

Berkeley Maths Tournament(BMT)

First place in power round, Fourth place in Discrete Maths part

United Kingdom Mathematics Trust Senior Mathematical Challenge(UKMT)

Gold Certificate

Hobby

Photography, Tennis, Rubic's Cube(Rank 55 in Jiangsu 2017 2x2 contest)...