

Ruijia Cao

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Education

Georgia Institute of Technology

B.S. in Computer Science

2020–2024

Preprints and Publications

Preprints

- [2] Ruijia Cao and Florian Schäfer. *Information geometric regularization of the barotropic Euler equation*. 2023. arXiv: 2308.14127 [math.NA].

Publications

- [1] Anton Bernshteyn, Tyler Brazelton, Ruijia Cao, and Akum Kang. “Counting colorings of triangle-free graphs”. In: *Journal of Combinatorial Theory, Series B* 161 (2023), pp. 86–108.

Work Experience

CAI

Technical Intern

Allentown, PA

Jun 2023 – Aug 2023

- Analyzed data sets for VERTEX IT service desk using PowerBI and M query.
- Automated the computation of summary statistics of service desk performance and created visualization.

Georgia Tech

Grader

Aug 2022 – Present

- Graded exams and assignments for Linear Algebra, Abstract Algebra, and Probability Theory at Georgia Tech

Talks

Oct 2021: Graph Theory Seminar, Georgia Tech, Atlanta, GA

Sep 2023: 2nd IACM Mechanistic Machine Learning and Digital Engineering for Computational Science and Engineering, El Paso, TX

Personal Projects

Credit Card Fraud Detection

Jan 2022 – May 2022

- Implemented five supervised learning algorithms for detecting fraudulent transactions in Python.
- Evaluated the effectiveness of supervised learning algorithms in detecting fraudulent transactions.

Game Development

May 2021 – Aug 2022

- Developed a rhythm game using Java and JavaFX with a group of five students.
- Wrote unit testing code for the project.
- Followed Agile methodology.
- Received the Best Project Award in a class of ninety students.

Technical Skills

Programming: Python, Julia, Java, \LaTeX

OS: macOS, Ubuntu

Last updated November 22, 2023