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Austin Barton

EDUCATION

B.S. in Mathematics and Computer Science   Current Student (3rd Year) | Projected Graduation Date: May 2025 | Atlanta, GA

Georgia Institute of Technology (GPA: 3.81)

 Relevant Upper Coursework:

Statistical Theory (Current); Science Based Data Science (Current); Introduction to Artificial Intelligence (Current); Design and Analysis of Algorithms (Current); Abstract Algebra (Current); Probability Theory; Real Analysis I; Second Course in Linear Algebra; Applied Combinatorics; Data Structures and Algorithms (Java)

PROJECTS

DIRECTED READING PROGRAM   Georgia Tech School of Mathematics | Sep. 2022 - Dec. 2022

Undergraduate directed reading program hosted by the School of Mathematics at Georgia Institute of Technology. It provides undergraduate math students the opportunity to explore advanced topics. I studied enumerative combinatorics related to Dyck paths and the various statistics formed on them. It required a minimum of 4 hours every week with weekly meetings with a postdoc to learn new content related to various sources on the subject.

PROBABILITY THEORY PROJECT   MATH 3235 at Georgia Tech | Oct. 2022 - Dec. 2022

As a student for MATH 3235 Probability Theory at Georgia Tech, I created a paper studying various simple random walks with an emphasis on introducing a variety of their applications and different techniques in studying them. I studied random walks, enumeration of paths, and various characteristics, results, and theorems related to them.

WARRIOR SCHOLAR PROJECT   Veteran Education Preparation | August 2020

An education preparation program hosted by Yale University to aid veterans in transitioning to civilian student life and the academic rigor of university studies.

EXPERIENCE

UNITED STATES MARINE CORPS | Infantry Assaultman (E-5)   Camp Lejeune, NC | Oct 2016 - Oct 2020

- Led, mentored, and collaborated with a team of 12 Marines to prioritize mission accomplishment under hazardous working conditions. This included creating camaraderie through training and having a personal investment into each Marine's well-being.
- Collaborated with upper-level management under stressful and high-paced work environments to develop strategies to improve job performance, mission accomplishment, and overall efficiency within the unit.

ACTIVITIES

Quantum Computing Association General member; We meet weekly for an hour to explore and discuss applications, recent news, and theory behind quantum computing.

Georgia Tech Math Club Weekly meetings to discuss mathematics and solve problems similar to Putnam style math competitions

SKILLS

Mathematics: Proofs, LaTeX, Probability and Statistics
Programming Languages: Java, Python, C, Excel, Word
Programming Concepts Data structures, Algorithms, Object-oriented programming, Artificial Intelligence
Other: Enthusiasm; Collaboration; Initiative; Communication; Analytical

AWARDS

Academic Awards
Dean's List   John H. and Susan S. Traendly Scholar
Zell Miller Scholar

Military Awards
Certificate of Commendation   Meritorious Promotion
Good Conduct Medal   Arctic Service Medal