Irit Huq-Kuruvilla

Personal Website
PhD in Mathematics

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GitHub Profile
LinkedIn Profile

About Me

Recent PhD in mathematics from UC Berkeley interested in taking a more tech-oriented role. Aside from my knowledge of math and physics, I have taken and helped teach many courses in theoretical computer science and operations research. I also have a background in competitive programming, as well as knowledge of various machine learning protocols. I am interested in data science, software engineering, machine learning, artificial intelligence, quantum computing or anything where my knowledge and skills would be relevant.

Education

•UC Berkeley *2017-23*
PhD in Mathematics, Subject Area: Mathematical Physics GPA: 4.0

•Columbia University *2013-2017*
BA in Mathematics GPA: 3.7

Work Experience

•UC Berkeley Department of Mathematics *2017-2023*
Research Assistant + Graduate Student Instructor Berkeley, CA
– Conducted research in mathematical physics. Wrote papers and presented at conferences. Assisted for and taught classes in Calculus, Precalculus, and Linear Algebra

•Columbia University Department of Computer Science *2015-2017*
Undergraduate Teaching Assistant New York, NY
– Assisted for and taught classes in Number Theory and Cryptography, Analysis of Algorithms, and Computational Complexity

Technical Skills

Languages:Java, Python, SQL, HTML
ML Tools:PyToch, Tensorflow, Pandas, Keras, ResNet
Other:LaTeX, Mathematica, Canvas, Microsoft Excel
Relevant Coursework: Design and Analysis of Algorithms, Computational Complexity, Discrete Optimization, Combinatorial Optimization, Linear Algebra

Personal Projects

•Tree Classification *2023*
Erdos Institute Data Science Boot Camp Project
– Description: I worked with team of other graduate students and postdocs to use the ReforestTree dataset to train a model to classify trees from satellite images, and estimate their total carbon storage potential. Details of the project and its results are available on my GitHub page

Honors and Awards

•Certificate of Completion Erdos Institute Data Science Bootcamp *2023*

•Graduate Student Research Fellowship National Science Foundation *2018-2023*

•Science Research Fellow Columbia University *2013-2017*
(Award given to fund summer research promising students)

•2nd Place St.Bonaventure University High School Programming Competition *2012*

References

Available upon request.