Richard Huang

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Research

I'm broadly interested in theoretical computer science and combinatorics, particularly in approximation and graph algorithms. I'm also interested in algorithm design in the context of incentives and uncertainty.

Education

Brown University   *2023 -*
PhD in Computer Science
Advised by Ellis Hershkowitz

Princeton University   *2019 - 2023*
AB in Computer Science, Minor in Cognitive Science

Papers

Simple Length-Constrained Minimum Spanning Trees   *SOSA 2025*
With Ellis Hershkowitz

Prophet Inequality of Partition Matroid Intersection   *Undergraduate Senior Thesis, 2023*
Advised by Matt Weinberg

On Multidimensional Stable Matching   *Undergraduate Junior Paper, 2022*
Advised by Mark Braverman

Teaching

At Brown University
An Algorithmist's Toolkit (CSCI 2952T)   *2024*

At Princeton University
Computational Geometry (COS 451)   *2022*
Economics of Computation (COS 445)   *2022 - 2023*
Reasoning about Computation (COS 340)   *2021*
Computer Science: An Interdisciplinary Approach (COS 126)   *2020 - 2023*

Service

Conference Reviewing
SOSA

University Service
Student Organizer for Computer Science PhD Orientation at Brown University   *2024*

Activities

Brown University Orchestra   *2023 -*
Princeton Pianists Ensemble   *2021 - 2023*
Princeton University Orchestra   *2019 - 2023*
Greater Dallas Youth Orchestra   *2015 - 2019*

(Old) Employment

Amazon Web Services
Software Dev Engineer Intern   *2023*

Engineering Library at Princeton University
LaTeX Instructor   *2022*

Amazon
Software Dev Engineer Intern   *2022*

Office of the Dean of the College at Princeton University
Academic Advising Assistant   *2021 - 2022*

Department of Computer Science at Princeton University
Course Development Intern   *2021*
Research Assistant in Computing Education   *2020 - 2021*
Teaching Assistant Admin   *2020 - 2023*