Xiao Mao (Last update: August 1, 2022)

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Education

Stanford University

2022 to Present

Ph.D

- Field: Theoretical Computer Science

Massachusetts Institute of Technology

2021 to 2022

M.Eng.

- Thesis Supervisor: Virginia Vassilevska Williams

Massachusetts Institute of Technology

B.S. in Computer Science and Engineering and in Mathematics

2017 to 2021

Research and Work Experience

Massachusetts Institute of Technology

Sep. 2021 to present

M.Eng. with thesis supervised by Professor Virginia Vassilevska Williams

Focus on algorithms and complexity.

Massachusetts Institute of Technology

Feb. 2020 to Dec. 2020

UROP advised by Professor Michael Sipser

- Research projects on algorithms and complexity. Finished two manuscripts.

Microsoft Corporation, Bellevue, WA

Intern

Summer 2019

- Studied Hopscotch Hashing and its performance, both theoretical and practical.

Pony.ai, Inc., Fremont, CA

Intern

Summer 2018

 Migrated the build tool from Bash to a 1000-line standardized Python script with improved functionality.

Publications

[1] Xiao Mao. Breaking the Cubic Barrier for (Unweighted) Tree Edit Distance. In *Proceedings of the 62nd IEEE Symposium on Foundations of Computer Science (FOCS)*, 2021.

(Machtey Award for Best Student Paper)

Older Manuscripts

[1] Xiao Mao. Shortest non-separating st-path on chordal graphs. 2020

Selected Awards and Scholarships

• FOCS 2021
Best Student Paper (Machtey Award)

• International Olympiad in Informatics
Silver medal

July to August 2017

• National Olympiad in Informatics, China
Gold medal, 1st place

July 2016

Talks

• Breaking the Cubic Barrier for (Unweighted) Tree Edit Distance

– FOCS 2021 Feb 2022

– Yao Class seminar Sep 2021

Service

• Conference Reviewing: ITCS 2022, SWAT 2022