Lichen Zhang

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EDUCATION

Massachusetts Institute of Technology   Sep. 2022 - May 2028 (expected)
Ph.D in Mathematics   *Cambridge, MA*

Carnegie Mellon University   June 2021 – May 2022
M.S. in Computer Science   *Pittsburgh, PA*

Carnegie Mellon University   Aug. 2017 – May 2021
B.S. in Computer Science   *Pittsburgh, PA*

RESEARCH INTERESTS

- Convex and Non-Convex Optimization.

- Randomized Linear Algebra.

- Spectral Graph Theory.

EXPERIENCE

Teaching Assistant (Instructor: Pravesh K. Kothari and Anil Ada)   Jan 2022 – May 2022
Carnegie Mellon University   *Pittsburgh, PA*
  - Teaching Assistant for The Computational Lens (15-155) class.

Teaching Assistant (Instructor: Pravesh K. Kothari)   Jan 2021 – May 2021
Carnegie Mellon University   *Pittsburgh, PA*
  - Teaching Assistant for Undergraduate Complexity Theory (15-455) class.

Undergraduate Research Assistant (Advisor: Gary L. Miller)   Oct. 2019 – Sep. 2020
Carnegie Mellon University   *Pittsburgh, PA*
  - Granted under CMU Summer Undergraduate Research Fellowship (SURF).
  - Discrete optimization algorithm via ODE perspective.
  - Combinatorial graph clustering algorithm breaks Cheeger's bound.

PUBLICATIONS (AUTHOR NAMES IN ALPHABETICAL ORDER)

Dynamic Tensor Product Regression
  - Aravind Reddy, Zhao Song and **Lichen Zhang**
  - To appear in thirty-sixth Conference on Neural Information Processing Systems (NeurIPS 2022)

Fast Sketching of Polynomial Kernels of Polynomial Degree
  - Zhao Song, David P. Woodruff, Zheng Yu, and **Lichen Zhang**
  - Published in the thirty-eighth International Conference on Machine Learning (ICML 2021).
  - arxiv link: https://arxiv.org/pdf/2108.09420.pdf

REFERENCES

Gary L. Miller, Professor at Carnegie Mellon University   Email: gm2f@andrew.cmu.edu
Zhao Song, Researcher at Adobe Research   Email: zsong@adobe.com
Pravesh K. Kothari, Assistant Professor at Cargenie Mellon University   Email: sawako@cs.cmu.edu