Gan Luo

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Location: 40th building, Peking University
Citizenship: China

Research interests

Optimization, Federated Learning, Statistics, Machine Learning

Education

Peking University   Beijing, China
BA in Mathematics   Apr. 2023 – Jul. 2026(expected)
GPA: 86/100 (3.62/4)
BA in Chemistry   Sep. 2022 – Apr. 2023

Honors

Applied Mathematics Elite Program. The program accepted only 15 people this year   2024

Silver Medal, 35th Chinese Chemical Olympiad. The prize is awarded to the top 150 high school students in chemical throughout China   2021

Research experience

Convergence Analysis for Push Pull Algorithm
Mentor: Prof. Kun Yuan (Peking University)   Nov. 2023 – Present
I am currently working on research in distributed algorithms. My focus is on proving how the push-pull algorithm converges and speeds up in non-convex and random settings. Using these findings, I am creating a more stable push-pull-like algorithm that performs better with data heterogeneity. This research aims to improve the efficiency and reliability of distributed computing.