# DONGCHEN LI

## dongchenli@pku.edu.cn

## **EDUCATION**

The University of Hong Kong Sep. 2023 - Present PhD, School of Computer Science, Advisor: Prof. Zhiyi Huang Peking University Sep. 2019 - Jul. 2023 Bachelor of Information Science, School of Mathematical Sciences

#### RESEARCH INTERESTS

My research interests include theoretical computer science, especially on optimal decision making, and machine-learning-based automation (theorem proving or program synthesis).

## **PUBLICATIONS**

The Search-and-Mix Paradigm in Approximate Nash Equilibrium Algorithms, Xiaotie Deng, Dongchen Li, Hanyu Li, https://arxiv.org/abs/2310.08066.

On the Optimal Mixing Problem of Approximate Nash Equilibria in Bimatrix Games, Dongchen Li,

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• HKU Presidential PhD Scholarship

Hanyu Li, Xiaotie Deng, IJTCS 2024.	
RESEARCH EXPERIENCE	
Theory Group, HKU	Advisor: Prof. Zhiyi Huang
• Prophet Secretary	Nov. 2023- Present
daGame Lab, Peking University	Advisor: Prof. Xiaotie Deng
• Algorithm for Approximate Nash Equilibrium	May. 2022- May. 2024
• Complexity of Quantal Response Equilibrium	Summer Research Internship, 2023
• Cheating in Correlated Equilibrium	Oct. 2021- Dec. 2021
Discrete Optimization Group, Peking University	Advisor: Prof. Sihong Shao
• Bachelor's Thesis	Jan. 2023- Jun. 2023
• Lecture Notes of Math Modelling	Jun. 2022 - Jan. 2023
AWARDS AND HONORS	
• Silver Medal in Chinese Mathematical Olympiad, Top 170 national wide Oc	
• Second-Class Freshmen Scholarship	Sep. 2019
Academic Excellence Award	Sep. 2020
• Merit Student in Peking University (Top 25%, Yizheng S	cholarship) Sep. 2021
• Excellent League Leader in Peking University	Mar. 2022
• Merit Student in Peking University (Top 25%, 1/2002 Dr	ream Scholarship) Sep. 2022

Sep. 2023