Lexiao Lai

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EDUCATION

Columbia University in the City of New York

New York, U.S. Sept. 2019 - May 2024 (expected)

Doctor of Philosophy in Operations Research

New York, U.S.

Columbia University in the City of New York Master of Science in Operations Research

Sept. 2019 - May 2020

GPA: 4.26/4.33

The University of Hong Kong

Hong Kong

Bachelor of Science Major in Mathematics, Minor in Finance

Sept. 2015 - June 2019

cGPA: 3.87 /4.3; Major GPA: 4.19/4.3

University of Toronto

Toronto, Canada

HKUWW Undergraduate Student Exchange Programme

GPA: 4.0/4.0

Sept. - Dec. 2017

RESEARCH INTERESTS RELEVANT COURSES

Nonconvex optimization, data science, low-rank matrix recovery.

- Columbia: Optimization I & II, Foundation of Optimization, Advanced Topics in IEOR (in polynomial optimization), Stochastic Models I & II, Analysis of Algorithms
- HKU: Topics in Math Programming and Optimization (theories and algorithms of convex optimization), Introduction to Optimization, Real Analysis, Functional Analysis, Introduction to Partial Differential Equations, (Ordinary) Differential Equations, Discrete Mathematics, Abstract Algebra, Stochastic Processes, Introductory Econometrics, Mathematical Finance
- U of Toronto: Applied Linear Programming, Algorithmetic Game Theory, Functions of Complex Variables

RESEARCH **PAPERS**

- Lexiao Lai, Cédric Josz, Nonsmooth rank one matrix factorization landscape, in preparation,
- Elliot Cartee, Lexiao Lai, Qianli Song, Alexander Vladimirsky, Time-dependent surveillanceevasion games, 58th IEEE Conference on Decision and Control, 2019 [preprint]

AWARDS & HONOURS

- Outstanding Winner of Mathematical Contest in Modelling 2017 (Top 13 winners out of 8843 teams) Organized by COMAP Inc.
- Ranked 134 out of 4638 in 78th William Putnam Mathematical Competition 2017 Organized by Mathematical Association of America
- Walter Brown Memorial Prizes in Mathematics Awarded to the best final year student in Mathematics

2019

- - Doris Chen Undergraduate Project Prize 2018 To recognise research outputs and excellent performance in project courses in Mathematics
- Liu Ming-Chit Prize in Mathematics Awarded to a student in Mathematics who has completed his/her 2nd or 3rd year of study
- Alan John Allis Prize in Mathematics 2016,2017
- Awarded to not more than five 1st or 2nd year undergraduates in Mathematics • Dean's Honours List
- 2016,2017,2019 • HKSAR Government Scholarship 2015-2019
- Talent Development Scholarship 2018

COMPUTER SKILLS

Programming Languages: Python, MATLAB, C++, LATEX.