

Jiaqi Lu

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EDUCATION

Imperial College London, Department of computing

MRes. in AI and Machine Learning

Supervisor: Iddo Tzameret

London, United Kingdom

Oct 2023 – Sept 2024 (Expected)

- **Project:** Limitations on Learning Algorithms and Provability

University of Oxford, Mathematical Institute

M.Sc. in Mathematics and Foundations of Computer Science

Disseration Supervisor: Jan Pich and Rahul Santhanam

Oxford, United Kingdom

Oct 2022 – Sept 2023 (Expected)

- **Dissertation:** Connection between Rudich's and Razborov's Conjectures

Beijing University of Posts and Telecommunications, School Of Computer Science

B.Eng. in Computer Science and Technology

Rankings: 15/386; GPA: 91.01/100 or 3.77/4.0

Beijing, China

Sept 2018 – July 2022

RESEARCH EXPERIENCE

Connection between Rudich's and Razborov's Conjectures

Supervisor: Dr. Jan Pich and Prof. Rahul Santhanam

Univeristy of Oxford

May 2022 – Present

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Information-Theoretic Approximation of Large Markov Chains

Supervisor: Prof. George Karakostas

McMaster University

Jun 2021 – Sept 2021

- Studied, both theoretically and experimentally, methods of MC reduction, formulated them as optimization problems, and then developed provably good algorithms for solving the latter.
- Explored the connections of the MC reduction problem to Machine Learning.
- Finished the problem formulation and modelling side and focused on the theoretical analysis of proposed solutions.

Recursive Teaching Dimension Versus VC Dimension Institute of Computing Technology, CAS

Supervisor: Prof. Xingwu Liu

Spring 2020 – Fall 2020

- Studied the quantitative relation between the recursive teaching dimension(RTD) and the well-known learning complexity measure VC dimension(VCD).
- Studied the Book Introductory Combinatorics by Richard A. Brualdi.

RESEARCH INTEREST

VISITING & INTERNSHIP

Department of Computing Software, McMaster University

MITACS internship from 2021 Jun to 2021 Sept

Hamilton, Canada

Adviser: Prof. George Karakostas

Institute of Computing Technology, Chinese Academy of Sciences

Reseaarch Intern from 2020 Spring to 2020 Fall

Beijing, China

Adviser: Prof. Xingwu Liu

SELECTED AWARDS & SCHOLARSHIPS

2019 The Third Prize National Scholarship

2020 The Third Prize National Scholarship

SKILLS

Programming: C, C++, Python, MATLAB, Latex, Sagemath

Languages: Mandarin (Native), English (Fluent)