Jiaqi Lu

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https://lukakey.github.io/homepage

Education

M.S., University of Oxford, 2022 to 2023 (expc.)

- **Major**: Mathematics and Foundation of Computer Science, Mathematical Institute

B.S., Beijing University of Posts and Telecommunications, 2018 to 2022

- **Major**: Computer Science and Technology, School of Computer Science and Technology
- **Rankings**:15/386; **GPA**:91.05/100 or 3.77/4.0

Research Interests

the intersection of logic and complexity theory

Research Projects

Information-Theoretic Approximation of Large Markov Chains

McMaster University, Supervisor: Prof. George Karakostas   2021 Jun to 2021 Sept

- 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 modeling side and focused on theoretical analysis of proposed solutions.

Recursive Teaching Dimension Versus VC Dimension

Institute of Computing Technology, CAS, Supervisor: Prof. Xingwu Liu   2020 spring to 2021 fall

- Studied the quantitative relation between RTD and the well-known learning complexity measure VC dimension (VCD).

Visiting and Internship

Department of Computing Software, McMaster University (remote).
MITACS internship from 2021 Jun to 2021 Sept, advised by George Karakostas.
Institute of Computing Technology, Chinese Academy of Sciences, Beijing.
Research Intern from 2020 spring to 2021 fall, advised by Xingwu Liu.

Selected Awards and Scholarships

2019 The Third Prize National Scholarship
2020 The Third Prize National Scholarship

Computer Skills

C, C++, Latex, MATLAB and Python

Language

Native Chinese (Mandarin)
Fluent English