

Zheng LUO

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EDUCATION

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| University of California, Los Angeles (UCLA)
Ph.D. in Computer Science
Advisor: Remy Wang | Sep. 2024 – Present |
| University of Zurich (UZH)
M.Sc. in Informatics
Advisor: Ahmet Kara and Dan Olteanu | Sep. 2021 – Jun. 2024 |
| University of Chicago
M.Sc. in Financial Mathematics | Aug. 2015 – Dec. 2016 |
| Wuhan University
B.S. in Economics & Mathematics | Sep. 2011 – Jun. 2015 |

RESEARCH EXPERIENCE

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| Computer Science Department, UCLA
<i>Graduate Student Researcher</i> | Sep. 2024 – Present |
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- Exploring algorithmic improvements to optimize query processing in relational databases

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| Data Systems and Theory Group, UZH
<i>Master's Thesis, Evaluation of Conjunctive Queries with Dynamic and Static Relations</i> | Sep. 2023 – Jun. 2024 |
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- Characterized the conjunctive queries that can be evaluated efficiently in databases with static and dynamic relations
- Derived the theoretical upper and lower bounds of preprocessing time for such queries with formal proofs

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| Database Technology Group, UZH
<i>Master's Project, Robust Data Structure for Connectivity Queries on Dynamic Graphs</i> | Jul. 2022 – Sep. 2023 |
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- Designed a novel data structure for efficient and scalable connectivity query processing

TEACHING EXPERIENCE

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| Department of Informatics, UZH
<i>Teaching Assistant, 22AINF06 Data Structures & Algorithms (Informatics II)</i> | Feb. 2023 – Jun. 2023 |
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- Hosted weekly lab sessions with 65 students reviewing the theoretical concepts and implementation techniques

- Coached 38 students in implementing machine learning models and solving written exercises

PUBLICATION

Tractable Conjunctive Queries over Static and Dynamic Relations

Ahmet Kara, **Zheng Luo**, Milos Nikolic, Dan Olteanu, Haozhe Zhang.
28th International Conference on Database Theory (ICDT), March 2025.

FELLOWSHIP

UCLA Computer Science Departmental Award - \$ 32,851

2024-2025

PROFESSIONAL EXPERIENCE

Zurich Insurance Group

Quantitative Analyst

Aug. 2022 – Jul. 2023

Chicago Mercantile Exchange Group

Pricing and Valuation Analyst

Jun. 2018 – Sep. 2020

SKILLS

- **Programming Languages:** C/C++, Python, Java, C#, SQL, SPARQL, \LaTeX
- **Natural Languages:** English, Chinese, French (CEFR B2)