Zheng LUO

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EDUCATION

University of California, Los Angeles (UCLA) 09/2024 – 12/2027 (exp.)
Ph.D. in Computer Science
Advisor: Remy Wang

University of Zurich (UZH) 09/2021 – 06/2024
M.Sc. in Informatics
Advisor: Ahmet Kara and Dan Olteanu

University of Chicago 08/2015 – 12/2016
M.Sc. in Financial Mathematics

Wuhan University 09/2011 – 06/2015
B.S. in Economics & Mathematics

RESEARCH EXPERIENCE

Computer Science Department, UCLA Sep. 2024 – Present
Graduate Student Researcher

- Exploring algorithmic improvements to optimize query processing in relational databases

Data Systems and Theory Group, UZH Sep. 2023 – Jun. 2024
Master's Thesis, Evaluation of Conjunctive Queries with Daynamic and Static Relations

- 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

Database Technology Group, UZH Jul. 2022 – Sep. 2023
Master's Project, Robust Data Structure for Connectivity Queries on Dynamic Graphs

- Designed a novel data structure for efficient and scalable connectivity query processing

TEACHING EXPERIENCE

Computer Science Department, UCLA Sep. 2025 – Dec. 2025
Teaching Assistant, CS 32 Introduction to Computer Science II

Department of Informatics, UZH Feb. 2023 – Jun. 2023
Teaching Assistant, 22AINF06 Data Structures & Algorithms (Informatics II)

Department of Informatics, UZH   Sep. 2022 – Feb. 2023
Teaching Assistant, 22MI0005 Foundations of Data Science

PUBLICATION

Algorithms for Optimizing Acyclic Queries
***Zheng Luo**, Wim Van den Broeck, Guy Van den Broeck, Remy Wang.*
Preprint.

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   Aug. 2022 – Jul. 2023
Quantitative Analyst

Chicago Mercantile Exchange Group   Jun. 2018 – Sep. 2020
Pricing and Valuation Analyst

SKILLS

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