

Zheng LUO

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EDUCATION

University of California, Los Angeles (UCLA) Ph.D. in Computer Science Advisor: Remy Wang	09/2024 – Present
University of Zurich (UZH) M.Sc. in Informatics Advisor: Ahmet Kara and Dan Olteanu	09/2021 – 06/2024
University of Chicago M.Sc. in Financial Mathematics	08/2015 – 12/2016
Wuhan University B.S. in Economics & Mathematics	09/2011 – 06/2015

RESEARCH EXPERIENCE

Computer Science Department, UCLA <i>Graduate Student Researcher</i>	09/2024 – Present
<ul style="list-style-type: none">Exploring algorithmic improvements to optimize query processing in relational databases	
Data Systems and Theory Group, UZH <i>Master's Thesis, Evaluation of Conjunctive Queries with Dynamic and Static Relations</i>	09/2023 – 06/2024
<ul style="list-style-type: none">Characterized the conjunctive queries that can be evaluated efficiently in databases with static and dynamic relationsDerived the theoretical upper and lower bounds of preprocessing time for such queries with formal proofs	
Database Technology Group, UZH <i>Master's Project, Robust Data Structure for Connectivity Queries on Dynamic Graphs</i>	07/2022 – 09/2023
<ul style="list-style-type: none">Designed a novel data structure for efficient and scalable connectivity query processing	

TEACHING EXPERIENCE

Computer Science Department, UCLA <i>Teaching Assistant, CS 32 Introduction to Computer Science II</i>	09/2025 – 12/2025
Department of Informatics, UZH <i>Teaching Assistant, 22AINF06 Data Structures & Algorithms (Informatics II)</i>	02/2023 – 06/2023

PUBLICATIONS

Algorithms for Optimizing Acyclic Queries 09/2025
Zheng Luo, Wim Van den Broeck, Guy Van den Broeck, Remy Wang.
Preprint.

Tractable Conjunctive Queries over Static and Dynamic Relations 03/2025
Ahmet Kara, Zheng Luo, Milos Nikolic, Dan Olteanu, Haozhe Zhang.
28th International Conference on Database Theory (ICDT)

FELLOWSHIP

UCLA Computer Science Departmental Award - \$32,851 2024-2025

PROFESSIONAL EXPERIENCE

Zurich Insurance Group 08/2022 – 07/2023
Quantitative Analyst

Chicago Mercantile Exchange Group 06/2018 – 09/2020
Pricing and Valuation Analyst

SKILLS

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