Zhenghong Yu

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https://vldb.dev

Research Interests

Query Optimization Recursive query processing, worst-case optimal joins
Declarative Queries Datalog, extensible query languages

Education

University of Wisconsin-Madison — Madison, WI
Ph.D. in Computer Science — Sep. 2024–Present
– Advisor: Prof. Paris Koutris

ShanghaiTech University — Shanghai, China
B.E. in Computer Science and Technology — Sep. 2020–Jul. 2024
– Advisor: Prof. Haoxian Chen

Professional Experience

Database Group, University of Wisconsin-Madison — Madison, WI
Research Assistant. Advisor: Prof. Paris Koutris — Jan. 2025–Present

IDM Lab, University of Southern California — Los Angeles, CA
Research Intern. Advisor: Prof. Sven Koenig — Mar. 2024–Jun. 2025

Database Group, University of Wisconsin-Madison — Madison, WI
Research Intern. Advisor: Prof. Xiangyao Yu — May 2023–Sep. 2024

Honors and Awards

VLDB Travel Grant — 2026
VLDB Endowment

Teaching Assistant Scholarship — 2024
University of Wisconsin-Madison

Exchange Program Scholarship — 2023
ShanghaiTech University

Second Prize Winner — 2022
RoboMaster University Championship (RMUC)

Publications

P2. Hangdong Zhao, **Zhenghong Yu**, Srinag Rao, Simon Frisk, Zhiwei Fan, Paraschos Koutris, *FlowLog: Efficient and Extensible Datalog via Incrementality*, Proceedings of the ***VLDB*** Endowment, August 2026.

P1. Yimin Tang, **Zhenghong Yu**, Jiaoyang Li, Sven Koenig, *Accelerating Focal Search in Multi-Agent Path Finding with Tighter Lower Bounds*, Proceedings of ***IROS***, October 2025.

Teaching

CS564 DBMS: Design and Implementation, TA — Fall 2025
CS220 Data Science Programming I, TA — Spring 2025
CS564 DBMS: Design and Implementation, TA — Fall 2024

Professional Service

VLDB Shadow PC Member — 2027
WISC Database Seminar, Organizer — Fall 2025, Spring 2026