

YUZHE ZHOU

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RESEARCH INTERESTS:

Human-AI Interaction · AI in Education · Computing Education · Learning Sciences · Computer-Supported Collaborative Learning · Learnersourcing · Educational Technology Design

EDUCATION:

Purdue University West Lafayette, IN, US
Doctor of Philosophy (PhD), Computer and Information Technology Expected: May 2027
Dissertation: *Balancing Learning and Sourcing: Human-AI Complementarity in Learnersourcing*
Advisor: Dr. Tianyi Li
Committee: Dr. Tianyi Li (Chair), Dr. Alejandra J. Magana, Dr. Ming Yin, Dr. Paul J. Thomas

Purdue University West Lafayette, IN, US
Master of Science (MS), Computer and Information Technology August 2022 – May 2024
Thesis: *Towards Contextualized Programming Education by Developing a Learnersourcing Workflow*
Advisor: Dr. Tianyi Li
Committee: Dr. Tianyi Li (Chair), Dr. Alejandra J. Magana, Dr. Dominic Kao, Dr. Stephen J. Elliott

Purdue University West Lafayette, IN, US
Bachelor of Science (BS), Computer and Information Technology August 2018 – May 2022

PUBLICATIONS:

My name is shown in bold. † denotes a student mentee.

Refereed Conference Papers

- [1] **Zhou, Y.**, Shao, T., Magana, A. J., & Li, T. (2027, in press). Learning from learnersourced problems: Student engagement with peer-generated programming practice. In *Proceedings of the 58th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2027)*.
- [2] **Zhou, Y.**, Babu, P. M.†, Pandey, U.†, Magana, A. J., & Li, T. (2026). ExPeerience: Towards AI-assisted learnersourcing to bridge conceptual understanding and problem solving in database programming education. In *Proceedings of the 31st International Conference on Intelligent User Interfaces* (pp. 1178–1201). Acceptance rate: 20.2% (113/560).
- [3] **Zhou, Y.**, Magana, A. J., & Li, T. (2026). Farm harvests and airplane engines: Contextualizing database exercises in relatable contexts with a learnersourcing workflow. In *Proceedings of the International Conference on Computer-Supported Collaborative Learning (CSCL 2026)*. Acceptance rate: 32% for long papers (30/93).
- [4] **Zhou, Y.**, Thomas, P. J., & Li, T. (2025). Examining perception differences in context familiarity between students and instructors in computing education: A case study on introductory database concepts. In *2025 IEEE Frontiers in Education Conference (FIE)* (pp. 1–8). IEEE. Acceptance rate: 58.9%.
- [5] **Zhou, Y.**, Magana, A. J., & Li, T. (2025). Facilitating students' learning transfer in a database programming class. In *Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 1* (pp. 1330–1336). Acceptance rate: 32% (192/604).
- [6] Shao, T., **Zhou, Y.**, Thomas, P. J., & Li, T. (2027, in press). Real projects, real managers: A decoupled cross-course model pairing project management and programming students. In *Proceedings of the 58th ACM Technical Symposium on Computer Science Education (SIGCSE TS 2027)*.
- [7] Li, T., **Zhou, Y.**, & Magana, A. J. (2025). Towards learnersourcing relatable and contextualized learning materials: An exploratory study in a database programming class. In *Proceedings of the 30th ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2025)* (pp. 479–485). Acceptance rate: 28% (99/354).

Refereed Journal Articles

- [8] Li, T., **Zhou, Y.**, & Magana, A. J. (**in press**). Engaging students in co-creating contextualized learning materials in computing education. *ACM Transactions on Computing Education*.

Refereed Posters and Extended Abstracts

- [9] **Zhou, Y.**, Manjunatha Babu, P.†, Pandey, U.†, Magana, A. J., & Li, T. (2026). **ExPeerience: Support student-AI co-creation in a learnersourcing workflow**. In *Companion Proceedings of the 31st International Conference on Intelligent User Interfaces* (pp. 176–179). *Acceptance rate: 49% for posters (34/70)*.

Manuscripts Under Review

- [10] **Zhou, Y.**, Wu, M., & Li, T. Understanding students' AI use and verification across a semester of database programming coursework. Manuscript submitted to the *ACM CHI Conference on Human Factors in Computing Systems (CHI 2027)*.

RESEARCH EXPERIENCE:

Purdue University	West Lafayette, IN, US
Graduate Research Assistant	August 2022 – Present (<i>including summer semesters</i>)
- Led the design, development, and classroom deployment of ExPeerience, a GenAI-assisted learnersourcing platform for programming education (Django, PostgreSQL, JavaScript), and mentored student developers. - Designed and deployed a learnersourcing workflow across five semesters, engaging 270+ students in co-creating contextualized worked examples for database programming. - Conducted mixed-methods learning-impact evaluations, including a quasi-experimental study with 101 students and usability and learning studies with 50+ students, using statistical modeling and qualitative coding. - Leading a semester-long longitudinal study of how students assign programming work to GenAI and verify, revise, or reject AI-generated outputs. - Conducting an interview study with computing instructors on how they evaluate and update learning materials. - Co-developed an AI-assisted grading and feedback tool with the University of Waterloo, supporting instructors and TAs in courses of 800–1,500 students.	

INDUSTRY EXPERIENCE:

Beijing Wisdom Bud Software Technology Co., Ltd.	Zhengzhou, Henan, China
Project Manager Intern	June 2021 – August 2021
- Led a student team in developing a university information system for storing and managing student records. - Conducted on-site requirements gathering with university administrators to define system requirements. - Collaborated with peers to build a SQL-based data platform and an Excel-based data-entry interface for administrators. - Tested and deployed the complete system across the university.	

CONFERENCE PRESENTATIONS AND TALKS:

Doctoral Research Overview, joint HCOMP and Collective Intelligence Doctoral Colloquium	2026
Paper and poster presentations, ACM Intelligent User Interfaces (IUI) 2026	2026
Paper presentation, International Conference of the Learning Sciences / CSCL 2026	2026
Paper presentation, IEEE Frontiers in Education Conference (FIE) 2025	2025
Paper presentation, ACM SIGCSE Technical Symposium 2025	2025

AWARDS, HONORS & TRAVEL GRANTS:

NSF Student Travel Grant , joint HCOMP and Collective Intelligence	2026
Second Place , Purdue Polytechnic Institute Student Poster Session (\$300 prize)	2024

PROFESSIONAL SERVICE:

Peer Review	
Reviewer , ACM CHI Conference on Human Factors in Computing Systems (CHI) — 3 papers	2027
Reviewer , ACM SIGCSE Technical Symposium (SIGCSE TS) — 5 papers	2027

Reviewer , ACM SIGCSE Technical Symposium (SIGCSE TS) — 3 papers, 6 posters	2026
Reviewer , Computer-Supported Collaborative Learning (CSCL), ISLS — 2 long papers	2026
Reviewer , IEEE Frontiers in Education Conference (FIE) — 3 full papers, 1 work-in-progress paper	2025
Conference Volunteering	
Student Volunteer , ACM Intelligent User Interfaces (IUI)	2026

TEACHING & MENTORING:

Purdue University	West Lafayette, IN, US
Graduate Teaching Assistant	March 2022 – Present
• CNIT 37200 Advanced Database Programming ◦ Co-developed and graded homework, lab assignments, and exams in collaboration with the course instructor. ◦ Led weekly lab sessions and held office hours, providing one-on-one support to students on SQL and PL/SQL programming. ◦ Explained complex database programming concepts and helped students debug code in Oracle SQL Developer.	7 semesters, 2022 – Present
• CNIT 32200 Research Methodology and Design ◦ Led weekly lab sessions on research methods and study design. ◦ Guided undergraduate student researchers through designing and conducting their research projects. ◦ Graded assignments and provided feedback on students' research work.	Fall 2026
Research Mentorship	
• Udayan Pandey , Undergraduate Student, Computer Science	Summer 2024 – Spring 2025
• Prithvi Manjunatha , M.S. Student, Computer Graphics Technology	Summer 2024 – Spring 2025
• TzuEn Feng , M.S. Student, Computer and Information Technology	Fall 2026