Zhaoheng (Billy) Li

Thomas M. Siebel Center, Rm 2119 201 North Goodwin Avenue Urbana, IL 61801 billyzhaohengli.github.io zl20@illinois.edu +1 217-721-0260

Research	Systems for AI and ML; Interactive Data Analytics; Vector Databases; Graph Algorithms		
Education	Ph.D., Computer Science University of Illinois at Urbana Champaign • Advisor: Yongjoo Park	Aug 2021 - May 2026 (expected)	
	 B.S., Statistics and Computer Science Aug 2017 - May 2021 University of Illinois at Urbana Champaign Magna Cum Laude and with Highest Distinction in Statistics and Computer Science High Distinction in Mathematics Thesis: REFORM: Fast and Adaptive Solution for Subteam Replacement Advisor: Hanghang Tong 		
Professional Experience	Research Assistant University of Illinois at Urbana Champaign <mark>CreateLab</mark>	Aug 2021 - Present	
	Research Intern ByteDance Inc. Systems Infrastructure Lab	May 2024 - Oct 2025	
	Software Engineer Intern Google LLC Google Cloud, Google BigQuery	May 2023 - Aug 2023	
	Software Engineer Intern Google LLC Google Cloud, Systems & Storage Infrastructure	May 2022 - Aug 2022	
	Research Assistant University of Illinois at Urbana Champaign IDEA Lab	Aug 2020 - May 2021	
	Software Engineer Intern Google LLC Google Ads, Google Local Services	May 2020 - Aug 2020	
	Software Engineer Intern Google Canada Corporation Google Ads, Google Ads Experiments	May 2019 - Aug 2019	
Awards	Travel Grant, PyCon 2025	March 2025	
	Travel Award, ICDE 2023	March 2023	

Finalist, C1Games Terminal Game AI competition	September 2019
Best Data Visualization Award, Illini Datathon	February 2019
Top in China, Cambridge CIE AS Sociology exam	October 2016
National Finalist, High School Mathematical Contest in Modeling (HIMCM)	February 2015

Publications

- Zhaoheng Li, Supawit Chockchowwat, Ribhav Sahu, Arret Sheth, Yongjoo Park Kishu: Time-traveling for Computational Notebooks VLDB 2025 (research): 51st International Conference on Very Large Databases, London, United Kingdom, 2025
- Zhaoheng Li, Supawit Chockchowwat, Hanxi Fang, Yongjoo Park Demo of Kishu: Time-traveling for Computational Notebooks SIGMOD 2025 (demo track): ACM Special Interest Group on Management of Data, Berlin, Germany, 2025
- Zhaoheng Li, Pranav Gor, Rahul Prabhu, Hui Yu, Yuzhou Mao, Yongjoo Park ElasticNotebook: Enabling Live Migration for Computational Notebooks VLDB 2024 (research): 50th International Conference on Very Large Databases, Guangzhou, China 2024
- 4. Zhaoheng Li, Supawit Chockchowwat, Hanxi Fang, Ribhav Sahu, Sumay Thakurdesai, Kantanat Pridaphatrakun, Yongjoo Park
 Demo of ElasticNotebook: Migrating Live Computational Notebook States
 SIGMOD 2024 (demo track): ACM Special Interest Group on Management of Data, Santiago, Chile, 2024
- Supawit Chockchowwat, Zhaoheng Li, Yongjoo Park Transactional Python for Durable Machine Learning: Vision, Challenges, and Feasibility SIGMOD DEEM 2023 (short paper): 7th Workshop on Data Management for End-to-End Machine Learning, Seattle, USA, 2023
- Zhaoheng Li, Xinyu Pi, Yongjoo Park
 S/C: Speeding up Data Materialization with Bounded Memory
 ICDE 2023 (research): 39th International Conference on Data Engineering, Anaheim, USA, 2023
- Zhaoheng Li, Xinyu Pi, Mingyuan Wu, Hanghang Tong REFORM: Fast and Adaptive Solution for Subteam Replacement IEEE BigData 2021 (research): IEEE International Conference on Big Data, 2021
- Zhaoheng Li, Xinyu Pi, Mingyuan Wu Subteam Replacement: Problem Definition and Fast Solution SIGMOD SRC 2021 (extended abstract): ACM Special Interest Group on Management of Data Student Research Competition, Xi'An, China, 2021

Teaching	ML and Data Systems (CS 598) Teaching Assistant, University of Illinois at Urbana-Champaign	Spring 2024
	Game Development (CS 498) Teaching Assistant, University of Illinois at Urbana-Champaign	Spring 2022
	Introduction to Computer Science (CS 125) Course Assistant, University of Illinois at Urbana-Champaign	Spring 2018
Talks	PyCon , Pittsburgh, USA	May 2025
	VLDB , Guangzhou, China	August 2024
	SIGMOD, Santiago, Chile	June 2024
	ICDE, Anaheim, USA	April 2023
	IEEE BigData (Virtual)	December 2021
	SIGMOD SRC, Xi'An, China (Virtual)	June 2021