

Dohyun Park

+1 (217) 721-3931 (cell)
dohyunp2@illinois.edu

INTERESTS	Data Management; Machine Learning; Distributed Systems	
EDUCATION	University of Illinois at Urbana-Champaign <i>Ph.D. in Computer Science</i> <ul style="list-style-type: none">• Advisor: Yongjoo Park	August 2023 – Present
	Korea University <i>B.S. in Electrical Engineering</i>	March 2017 – February 2023
PUBLICATIONS	UPP: Universal Predicate Pushdown to Smart Storage Ipoom Jeong, Jinghan Huang, Chuxuan Hu, Dohyun Park , Jaeyoung Kang, Nam Sung Kim, Yongjoo Park <i>ISCA 2025</i>	
	Enabling In-Vitro Serverless Systems Research Dmitrii Ustiugov, Dohyun Park , Lazar Cvetković, Mihajlo Djokic, Hongyu Hè, Boris Grot, Ana Klimovic <i>WORDS at SOSR 2023</i>	
RESEARCH	AirDB: Runtime for Fast On-Storage Transactions Dohyun Park , Wenjie Hu, Xiangyao Yu, Mahesh Balakrishnan, Yongjoo Park In preparation for NSDI'26	
	Fast LLM-Based Embedding for Efficient Retrieval-Augmented Generation (RAG) In preparation	
SERVICE	Availability & Reproducibility Initiative Reviewer	SIGMOD 2024
	Artifact Evaluation Committee Member	HPCA 2024
RESEARCH EXPERIENCE	UIUC CreateLab Research Assistant <i>Advisor: Prof. Yongjoo Park</i>	August 2023 – Present
	Google Student Researcher <i>Database/Analytics Efficiency & Codesign</i>	January – May 2025
	ETH Student Summer Research Fellow <i>Advisor: Prof. Ana Klimovic</i>	July – August 2022
WORK EXPERIENCE	Bucketplace <i>Software Engineer (Fulfilled Mandatory Military Service Duty)</i> <ul style="list-style-type: none">• Maintained data pipeline using Airflow, Hadoop, Spark on AWS• Built and maintained real-time user action data pipelines using Go, Kafka, and Spark on AWS• Designed and built a microservice-based search system (Go, gRPC, Elasticsearch, Kubernetes)	January 2020 – March 2022
OTHER EXPERIENCE	Korea University Creative Challenger Program <i>Advisor: Prof. Sang Hyun Lee</i> <ul style="list-style-type: none">• Led a project to develop an autonomous campus delivery robot• Experimented with traveling salesman problem algorithms for route optimization	

- Built a prototype using Raspberry Pi, OpenCV-based pathfinding, and GPS

Embedded Software Contest

- Programmed a humanoid robot to perform mock rescue tasks
- Implemented robot movements, pathfinding, and task logic with OpenCV on a Raspberry Pi
- Achieved 2nd place in qualifiers and placed 4th in the 2018 finals; 3rd in 2019