

Dujian Ding

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EDUCATION	University of British Columbia , Vancouver, Canada Ph.D. in Computer Science Anticipated Graduation: May, 2025	Sept. 2019 - Present
	Simon Fraser University , Vancouver, Canada B.Sc. in Computer Science, Dual Degree Program with Distinction	Sept. 2016 - May 2019
	Zhejiang University , Hangzhou, China B.Eng. in Computer Science and Technology, Dual Degree Program with Distinction	Sept. 2014 - Jun. 2019
RESEARCH INTERESTS	Efficient ML Models, Hybrid ML Inference. <i>Bring Efficiency Into & Onto Machine Learning.</i>	
EXPERIENCE	Research Assistant - Prof. Laks V.S. Lakshmanan University of British Columbia	Sept. 2019 - Present Vancouver, BC, Canada
	Research Scientist Intern - Dr. Ankur Mallick M365 Research, Microsoft	June 2024 - Sept. 2024 Redmond, WA, U.S.
	Research Scientist Intern - Dr. Subhabrata Mukherjee MSR, Microsoft	June 2023 - Aug. 2023 Redmond, WA, U.S.
	Applied Scientist Intern - Dr. Nagesh Panyam Alexa AI, Amazon	Sept. 2022 - Dec. 2022 Sunnyvale, CA, U.S.
	Research Assistant - Prof. Martin Ester Simon Fraser University	May 2018 - Dec. 2018 Vancouver, BC, Canada
PUBLICATIONS	BEST-Route: Adaptive LLM Routing with Test-Time Optimal Compute <i>Under Review</i>	
	Dujian Ding, Ankur Mallick, Shaokun Zhang, Chi Wang, Daniel Madrigal, Mirian Del Carmen Hipolito Garcia, Menglin Xia, Laks V. S. Lakshmanan, Qingyun Wu, Victor Rühle	
	Semantic Scheduling for LLM Operating System <i>Under Review</i>	
	Wenyue Hua, Dujian Ding, Yile Gu, Yujie Ren, Kai Mei, Yicheng Zhang, Minghua Ma	
	Navigating the Prompt Space: Supervision Matters in CoT When Reasoning Misleads <i>Under Review</i>	
	Xiang Zhang, Juntao Cao, Chenyu You, Dujian Ding	
	EcoAct: Economic Agent Determines When to Register What Action <i>Reasoning and Planning for LLMs Workshop at ICLR, 2025</i>	
	Shaokun Zhang, Jieyu Zhang, Dujian Ding, Mirian Del Carmen Hipolito Garcia, Ankur Mallick, Daniel Madrigal, Menglin Xia, Victor Rühle, Qingyun Wu, Chi Wang	
	OCCAM: Towards Cost-Efficient and Accuracy-Aware Classification Inference	

ICLR, 2025

Dujian Ding, Bicheng Xu, Laks V.S. Lakshmanan

PASS: Pruning Attention Heads with Almost-sure Sparsity Targets

TMLR, 2024

Dujian Ding, Ganesh Jawahar, Laks V.S. Lakshmanan

LLM Performance Predictors are good initializers for Architecture Search

ACL Findings, 2024

Ganesh Jawahar, Muhammad Abdul-Mageed, Laks V.S. Lakshmanan, **Dujian Ding**

Hybrid LLM: Cost-Efficient and Quality-Aware Query Routing

ICLR, 2024

Dujian Ding, Ankur Mallick, Chi Wang, Robert Sim, Subhabrata Mukherjee, Victor Rühle, Laks V.S. Lakshmanan, Ahmed Hassan Awadallah

On Efficient Approximate Queries over Machine Learning Models

VLDB, 2023

Dujian Ding, Sihem Amer-Yahia, Laks V.S. Lakshmanan

Uncovering the subtype-specific temporal order of cancer pathway dysregulation

PLOS Computational Biology, 2019

Sahand Khakabimamaghani, **Dujian Ding**, Oliver Snow, Martin Ester

Collaborative Intra-tumor Heterogeneity Detection

Bioinformatics, 2019

Sahand Khakabimamaghani, Salem Malikic, Jeffrey Tang, **Dujian Ding**, Ryan Morin, Leonid Chindelevitch, Martin Ester

**PROFESSIONAL
SERVICE**

Serving as reviewers for ICML 2025, ICLR 2025, SIGMOD 2025, SIGMOD 2024, VLDB 2023 (PVLDB 16), VLDB 2022 (PVLDB 15), RecSys 2022, WWW 2020.

Serving as the session chair for Session E7 (Trajectories & Time Series), VLDB 2023, Vancouver, Canada.

Volunteering for VLDB 2023, Vancouver, Canada.

TALKS

On Efficient Approximate Queries over Machine Learning Models

Session U6 (Scalable ML III), VLDB 2023, Vancouver, Canada

Aug. 2023

Hybrid LLM: Model Orchestration across Edge and Cloud

JEM Intern Talk Session 3, MSR

Aug. 2023

**HONOURS &
AWARDS**

ICLR 2025 Financial Assistance Award

Mar. 2025

Awarded the B.Sc. Degree with Distinction

Aug. 2019

Undergraduate Student Research Award

Mar. 2018

Undergraduate Open Scholarship

Apr. 2018

Undergraduate Open Scholarship

Sept. 2017

SFU-ZU Dual Degree Program Entrance Award

Sept. 2016