## Yue Dai

## PHD CANDIDATE · DEPARTMENT OF COMPUTER SCIENCE

University of Pittsburgh, Pittsburgh, PA 15260 ▼ yud42@pitt.edu

Education \_ **University of Pittsburgh** Pittsburgh, PA 15260 2018/09 - present PHD STUDENT IN COMPUTER SCIENCE · Advisor: Dr. Youtao Zhang • Co-Advisor: Dr. Xulong Tang **University of Maryland, College Park** College Park, MD 20742 MS of Science in Telecommunication 2015/09 - 2017/05 • Advisor: Dr. Michael Dellomo **Beihang University** Beijing, China 100191 BACHELOR OF ENGINEERING IN ELECTRICAL ENGINEERING AND AUTOMATION 2010/09-2014/06 Professional Experience \_\_\_\_\_ 2021-2024 Graduate Research Assistant, Department of Computer Science, University of Pittsburgh 2018-2022 **Graduate Teaching Assistant**, Department of Computer Science, University of Pittsburgh **Graduate Research Assistant**, Department of Computer Science, University of Maryland 2016 Intern, Information Department of Research Center of Automatic Control and Logistic Technology Engineering, 2014 Beijing Research Institute of Automation for Machinery Industry **Undergraduate Research Assistant**, Department of Electrical Engineering and Automation, Beihang University 2014 Intern, Department of Automatic System of Simons (China) LTD., Beijing Branch Publications \_\_\_\_\_

\*co-first author

**Yue Dai**, Youtao Zhang, Xulong Tang. 2023. CEGMA: Coordinated elastic graph matching acceleration for graph matching networks. 2023 IEEE International Symposium on High-Performance Computer Architecture (**HPCA**).

Yue Dai, Xulong Tang, Youtao Zhang. 2023. FlexGM: An Adaptive Runtime System to Accelerate Graph Matching Networks on GPUs. 2023 IEEE 41st International Conference on Computer Design (ICCD).

Sheng Li\*, Geng Yuan\*, **Yue Dai\***, Youtao Zhang, Yanzhi Wang, Xulong Tang. 2023. Smartfrz: An efficient training framework using attention-based layer freezing. The 11th International Conference on Learning Representations (**ICLR**).

**Yue Dai**, Xulong Tang, Youtao Zhang. 2022. An efficient segmented quantization for graph neural networks. CCF Transactions on High Performance Computing, 4(4), 461-473.

Zhexiong Liu\*, Meiqi Guo\*, **Yue Dai\***, Diane Litman. 2022. ImageArg: A multi-modal tweet dataset for image persuasiveness mining. Proceedings of the 9th Workshop on Argument Mining, International Conference on Computational Linguistics.

Sheng Li, Geng Yuan, Yawen Wu, **Yue Dai**, Chao Wu, Alex K Jones, Jingtong Hu, Yanzhi Wang, Xulong Tang. 2024. EdgeOL: Efficient in-situ Online Learning on Edge Devices. arXiv preprint arXiv:2401.16694.

Justin Brody, Samuel Barham, **Yue Dai**, Christopher Maxey, Donald Perlis, David Sekora, Jared Shamwell. 2016. Reasoning with grounded self-symbols for human-robot interaction. 2016 AAAI Fall Symposium Series

Xuejun Liu, Haiying Luan, Wenbai Chen, **Yue Dai**, Jiandong Liu, Bo Lan. 2014. Electrical nonlinearity pre-compensation for CO-OFDM system. Optik, 125(2), 616-619.

Research	Experience	
<ul><li>Design soft</li><li>Develop ad</li></ul>	_	e deep graph learning models
RESEARCH Ass  • Develop me	Maryland, College Park  SISTANT  etacognitive intelligent system based on active logic machine iable and secure distributed data management method for cloud services	College Park, MD 2015-2017
	versity  ATE RESEARCH  sor and control system for solar panel maintaining robots and devices	Beijing, CHINA 2010-2014
RESEARCH INT	arch Institute of Automation for Machinery Industry ERN electrical nonlinearity pre-compensation method for optical orthogonal frequency	<i>Beijing, CHINA</i> 2014 cy-division multiplexing systems
Research	Talks	
2023 2020	FlexGM: An Adaptive Runtime System to Accelerate Graph Matching Network at ICCD 2023, Washinton DC, USA  Effectiveness of Video Encoder for Adversarial Videos Defense, at University Pittsburgh, PA.	,

## Awards \_\_\_\_\_

2024 CS 50 Outstanding Research Fellowship, Department of Computer Science, University of Pittsburgh

2023 Orrin E. and Margaret M. Taulbee Graduate Award, Department of Computer Science, University of Pittsburgh

Teaching Experience \_\_\_\_\_

Fall 2022	CS2210 COMPILER DESIGN, Teaching Assistant	
Fall 2022	CS1622 INTRODUCTION TO COMPILER DESIGN, Teaching Assistant	
Summer 2022	CS0007 INTRODUCTION TO COMPUTER PROGRAMMING, Teaching Assistant	
Spring 2022	CS1550 INTRODUCTION TO OPERATING SYSTEMS, Teaching Assistant	
Summer 2021	CS1501 ALGORITHMS DATA STRUCTURES 2, Teaching Assistant	
FALL 2020	CS2510 COMPUTER OPERATING SYSTEMS, Teaching Assistant	
FALL 2020	CS1621 STRUCTURE PROGRAMMING LANGUAGES, Teaching Assistant	
Summer 2020	CS0007 INTRODUCTION TO COMPUTER PROGRAMMING, Teaching Assistant	
Spring 2020	CS1550 INTRODUCTION TO OPERATING SYSTEMS, Teaching Assistant	
Fall 2019	CS0008 INTRODUCTION TO COMPUTER PROGRAMMING WITH PYTHON, Teaching Assistant	
Summer 2019	CS0007 INTRODUCTION TO COMPUTER PROGRAMMING, Teaching Assistant	
Spring 2019	CS1520 PROGRAMMING LANGUAGE FOR WEB APPLICATIONS, Teaching Assistant	
Fall 2018	CS0449 INTRODUCTION TO SYSTEMS SOFTWARE, Teaching Assistant	
Professional Development		

PROFESSIONAL SERVICE Artifact Evaluation Committee of MICRO'22, ASPLOS'23, PLDI'23, Reviewer of ICLR'24