

# Khoi Nguyen

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## EDUCATION

The University of Texas at Dallas, Richardson, TX Doctor of Philosophy, Computer Science. GPA: 4.0	Aug 2023 - Dec 2027
Fulbright University Vietnam, Ho Chi Minh, Vietnam Bachelor of Science, Computer Science. GPA: 3.91. <i>Summa Cum Laude.</i>	Sep 2019 - May 2023

## SELECTED PUBLICATIONS

- Jeongsik Park\*, Khoi P. N. Nguyen\*, Jihyung Park, Minseok Kim, Jaeheon Lee, Jae Won Choi, Kalyani Ganta, Phalgun Ashrit Kasu, Rohan Sarakinti, Sanjana Vipperla, Sai Sathanapalli, Nishan Vaghani, Vincent Ng, “*MemeInterpret: Towards an All-in-One Dataset for Meme Understanding*”, **EMNLP Findings'25**
- Khoi P. N. Nguyen, Terrence Li, Derek Lou Zhou, Gabriel Xiong, Pranav Balu, Nandhan Alahari, Aaron Xu, Alan Huang, Tanush Chauhan, Harshavardhan Bala, Emre Guzelordu, Affan Kashfi, Suyesh Shrestha, Megan Vu, Jerry Wang, Vincent Ng, “*MemeQA: Holistic Evaluation for Meme Understanding*”, **ACL'25**
- Khoi P. N. Nguyen, Vincent Ng, “*Computational Meme Understanding: A Survey*”, **EMNLP'24**

## WORK EXPERIENCES

GE Aerospace Research, Niskayuna, NY, USA <i>Fellow Intern</i>	Jun 2025 - Aug 2025
• Developed a pipeline for engine requirement standardization using <b>LLMs</b> that caught 85% of violations	
• Prototyped a <b>knowledge graph</b> -powered virtual assistant	
Solano Energy, Ho Chi Minh, Vietnam <i>Artificial Intelligence Research Intern</i>	Jun 2024 - Oct 2024
• Built a <b>computer vision</b> application that estimates solar energy potential of a building just from user-input address, using <b>Dash (Python)</b> and <b>Azure VM</b> , boosting pre-sales for our solar panel installment service	
• <b>Fine-tuned Segment Anything model</b> for roof segmentation on Vietnamese <b>satellite imagery data</b>	
• Built an <b>annotation tool</b> for roof segmentation using <b>LabelStudio</b> , where the input data is collected online from the end-user application	
Koidra, Ho Chi Minh, Vietnam <i>Machine Learning Research Intern</i>	Aug 2022 - May 2023
• Developed a <b>symbolic regressor</b> to learn agricultural control logic directly from greenhouse data with 72% accuracy, <b>reducing the onboarding time</b> for new customers by approximately 6%	
• Implemented a <b>Python</b> codebase that ensembles <b>Decision Trees</b> , <b>Linear Regression</b> , and <b>Neural Networks</b>	
Google x National University of Singapore, Singapore <i>Student Researcher (RIPS)</i>	Jun 2022 - Jul 2022
• Built <b>classification models</b> on categories of text messages by training <b>Support Vector Machine</b> and finetuning <b>BERT</b> in <b>Scikit-learn</b> , achieving <b>90% accuracy</b>	
• Constructed a dataset of 3000 financially related text messages to benchmark message classifiers	

## TECHNICAL SKILLS

**Programming Languages:** (Proficient) Python; (Familiar) C/C++, JavaScript, Java

**Libraries and Tools:** PyTorch, Tensorflow, Scikit-learn, Transformers, Streamlit, React, FastAPI, Firebase

## AWARDS

**Louis Beecherl, Jr. Graduate Fellowship**, University of Texas at Dallas. (2025)

**Second Prize, Vietnam Olympiad in Informatics**, Rank 30 nation-wide, qualified for Asia-Pacific Team Selection Test. (2019)