

# Dang Nguyen

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## Education

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- 2024 - Present **Computer Science Ph.D.**, The University of Chicago.  
Advisor: Prof. Chenhao Tan
- 2020 - 2024 **Computer Science B.S. & Mathematics B.A.**, The University of Chicago.

## Selected Publications

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- 2025 **GPT-4V Cannot Generate Radiology Reports Yet.**  
Jiang, Y., Chen, C., **Nguyen, D.**, Mervak, B., & Tan, C. In Findings of the Association for Computational Linguistics (NAACL).  
{evaluation of large vision-language models, prompt engineering, error analysis}
- 2023 **Pragmatic Radiology Report Generation.**  
**Nguyen, D.**, Chen, C., He, H., & Tan, C. In Proceedings of Machine Learning for Health (ML4H).  
{vision-language modeling, finetuning LLMs, reducing hallucinations}

## Professional Experience

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- 2022 **NetApp Inc.**, Research Intern.
- Developed machine learning algorithms to detect slow disk drives.
  - Optimized an algorithm based on KL divergence and improved NetApp's threshold-based detector's true positive rate from 10% to 59%.
  - Used Apache Hive and SQL to create 3 novel datasets of slow disks.

## Research Experience

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- 2023 - Present **Chicago Human+AI Lab**, Student Researcher.  
**Race Representations are Robust to Prompt Variation in Language Model Decision-making.**  
Advisor: Prof. Chenhao Tan
- Designed synthetic datasets to reveal racial biases in Gemma 2B Instruct and LLaMA 3 8B Instruct's decisions in college admissions and hiring.
  - Used Distributed Alignment Search to find models' race subspaces with up to 90% accuracy.
  - Debaised models' decisions with representation interventions and demonstrated their efficacy over prompt engineering.
- 2020 - 2022 **Machine Learning for Systems Research (UCARE Lab)**, Student Researcher.  
Advisor: Prof. Haryadi Gunawi
- The project aimed to develop a machine learning model for slow disk detection.
  - Built a pipeline to retrieve and parse disk performance data from a vendor's database, and optimized it by 90%.
  - Applied K-means and DBSCAN on 23 out of 91 pairwise correlations of data features to detect anomalous disk clusters.
  - Developed an algorithm using KL divergence to detect slow disks and analyzed 50,000 disks in 3 days using 3 high-performance compute servers.

## Teaching Experience

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- Winter 2025 **Teaching Assistant**, CMSC 25700: Natural Language Processing, The University of Chicago.
- Designed homework assignments on transformers, pre-training, and interpretability.
  - Lead a tutorial session on PyTorch.