

Justin Lee

PhD Applicant for Fall 2026

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EDUCATION

The Ohio State University

B.S. Computer Science and Engineering and Minor in Statistics

GPA: 3.87 / 4.0

May 2026

PUBLICATIONS

ICML 2025 Workshop on Machine Unlearning for Generative AI

An Empirical Exploration of Continual Unlearning for Image Generation

Justin Lee, Zheda Mai, Chongyu Fan, Wei-Lun Chao

NeurIPS 2024

MLLM-CompBench: A Comparative Reasoning Benchmark for Multimodal LLMs

Jihyung Kil*, Zheda Mai*, **Justin Lee**, Zihe Wang, Kerrie Cheng, Lemeng Wang, Ye Liu, Arpita Chowdhury, Wei-Lun Chao

Techniques and Innovations in Gastrointestinal Endoscopy (Elsevier), 2025

Artificial Intelligence Advances Digital Pathomics for Confocal Endomicroscopy Diagnosis of Pancreatic Cysts

Ahmed Abdelbaki, Ziwei Li, Tai-Yu Pan, **Justin Lee**, Arpita Chowdhury, ..., Wei-Lun Chao (16 authors)

EXPERIENCE

Machine Learning Undergraduate Researcher

Harry Chao MLB Lab - Machine Learning as the Basics

January 2024 - Present

The Ohio State University

- Investigating root causes of model degradation in **Diffusion Model Continual Unlearning**, to enable localized and robust concept removal.
- Competed in the NeurIPS 2024 **LLM Merging** Competition, developing and implementing novel merging algorithms to mitigate task interference and enhance **multi-task learning** efficiency.
- Contributed to the NeurIPS benchmark paper by identifying reasoning and segmentation flaws in **multi-modal** models (GPT-4V, Gemini) and evaluating their performance in areas such as temporal relationships, fine-grained changes, and emotional expression in human faces.
- Collaborated with OSU Medical School on **image segmentation** model to classify risk stratification of Intraductal Papillary Mucinous Neoplasm.

Data Science Intern

School Outfitters - Education Furniture Supply and Logistics

May - August 2024

Cincinnati, OH

- Built a quote conversion prediction model by engineering features such as average customer conversion ratios into a **decision tree classification** model, providing customer service representatives with prioritized quotes based on conversion probability.
- Developed an **image recognition** feature using ResNet50 and the internal product catalog, enabling customers to find matching items and manufacturers for their existing furniture.
- Created an endpoint to summarize order information by processing notes, dates, and relevant data through an **LLM**, condensing an average of 500 notes per OrderID into a concise paragraph outlining order status and next steps.
- Designed a sales prediction model that outperformed standard **time series** models by incorporating features such as population and federal funding shifts, enhancing sales accuracy with a **decision tree** model.
- Developed an HR CoPilot using CoPilot Studio, SharePoint, and Azure for user authentication, assisting employees with internal policy questions by referencing specific documents.

TECHNICAL SKILLS

Languages: Python, C/C++, Java, SQL (Postgres), JavaScript, HTML/CSS, R

Libraries: PyTorch, Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Linux, MacOS