

# Phudish Prateepamornkul

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## EDUCATION

### University of California, Berkeley

California, U.S.

*Master of Arts in Statistics, GPA:3.923*

*Aug. 2023 – Dec 2024*

- Relevant Modules: Probability and Statistics at an Advanced Level, Deep Unsupervised Learning, Natural Language Processing, Computer Vision, LLM Agents and Convex Optimization

### University of Warwick

Coventry, U.K.

*BSc (Hons) Mathematics, First Class Honours (83.02%)*

*Sep. 2020 – Jul 2023*

- Overall Rank: Top 10 of cohort from 200+
- Relevant Modules: Linear Algebra, Multivariable Calculus, Mathematics of Machine learning, Matrix Analysis & Algorithms, Programming for Data Science, Neural Computing, Linear Statistical Modelling, Multivariate Statistics

## EXPERIENCE

### AI Scientist

Jan 2025 – Present

*SCB DataX*

*Bangkok, Thailand*

- Implemented an agentic AI chatbot with LangGraph and RAG to map deposit-related natural language queries to SQL, improving SCB finance inquiry processing and contributing to a 5M THB uplift
- Built a conversational AI chatbot that enables users to handle financial inquiries and carry out operations such as transferring money or paying credit-card bills through natural-language or voice interaction

### Graduate Research Assistant

Oct 2024 – Present

*Berkeley AI Research (BAIR)*

*California, U.S.*

- Collaborating in the Speech Lab under the guidance of **Akshat Gupta** to develop techniques for editing knowledge in large language models (LLMs) and researching about continually learning AI-Scientist for AI-Research with small open-source models
- Published a **research paper** accepted to EMNLP 2025 Finding presenting a novel approach that scales knowledge editing to support up to 10,000 modifications while maintaining robust downstream performance

## PUBLICATIONS

### • Lifelong Knowledge Editing Requires Better Regularization

EMNLP 2025 Findings

Akshat Gupta\*, **Phudish Prateepamornkul\***, Maochuan Lu, Ahmed Alaa, Thomas Hartvigsen, Gopala Anumanchipalli

\* Equal contribution.

## PROJECTS

### Learning Multimodal Representations in Token Space

Mar 2024 – May 2024

- Extended M3AE architecture to text-audio-video triplets using tokenized representations from pretrained models (BERT, custom VQ-VAE, VideoGPT), training multimodal Transformers on Meta's MUGEN dataset that achieved lower reconstruction loss across all modalities compared to unimodal baselines at masking ratios from 50-95%
- Demonstrated that multimodal training in token space improves single-modality performance, with the model outperforming unimodal baselines even when evaluated unimodally, while reducing computational overhead by avoiding raw data processing

### Mixture of Large Language Models

Jan 2024 – May 2024

- Merged multiple 130M-parameter GPT-2 models using Linear, TIES, and DARE techniques, achieving 96% of GPT-2 XL's accuracy (65.3% vs 68%) while being 16x faster at inference (142s vs 2255s)
- Demonstrated the effectiveness of merged models achieving 58% accuracy on out-of-domain classification tasks a 6 percentage point improvement over individual fine-tuned models

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL, HTML/CSS, R

**Frameworks:** Flask, FastAPI, LangGraph, LangChain

**Developer Tools:** Git, Docker, Azure, VS Code

**Libraries:** NumPy, Pandas, SciPy, PySpark, Scikit-learn, PyTorch, HuggingFace, OpenCV