Jakapun Tachaiya

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About Me

As a faculty member in the Linguistics Department at Chulalongkorn University, I am deeply interested in how computers can understand human language—a complex and often ambiguous task. My research focuses on Natural Language Processing (NLP), enabling computers to perform language-based tasks such as question answering, translation, and large-scale text analysis. Currently, I am developing NLP solutions using Large Language Models (LLMs), particularly for the Thai language. I welcome collaborations in this field.

Research Highlights

• NLP Research: Advancing natural language understanding and generation through novel architectures and methodologies.

• Collaborations: Working with leading research institutions and industry partners globally.

• Impact: Research applied in real-world applications affecting millions of users.

Research Interests

Core Areas: Large Language Models, Retrieval-Augmented Generation (RAG), Sentiment Analysis, Social Trend and Behavior Analysis, Machine Learning

Applications: Conversational AI, Information Extraction, Text Summarization, Multilingual NLP, Educational Technology, Healthcare NLP

Publications

ORCID iD: 0000-0001-9779-1571

• Investigating the Influence of Psychologists' Recommendations on Thai Juvenile Court Judgements (2024 JCSSE, Bangkok, Thailand)

• IKEA: Unsupervised Domain-Specific Keyword Expansion (2022 ASONAM, Istanbul, Turkey)

• SentiStance: Quantifying the Intertwined Changes of Sentiment and Stance (2021 ASONAM, The Hague, Netherlands)

• RAFFMAN: Measuring Sentiment in Online Political Forum Discussions During the Trump Impeachment (ICWSM 2020, Atlanta, Georgia)

• RThread: A Thread-Centric Analysis of Security Forums (2020 ASONAM, The Hague, Netherlands)

Teaching & Talks

Teaching Experience:

• Natural Language Processing – Fall 2025, ISE, Chulalongkorn

• Statistics for Digital Humanities – Fall 2025, LangTech, Chulalongkorn

• Programming for NLP – Fall 2025, LangTech, Chulalongkorn

• Large Language Models – Spring 2025, LangTech, Chulalongkorn

• Foundation of Programming – Fall 2024, KMITL

• Introduction to NLP – Various semesters, KMITL

• Generative AI – Fall 2024, KMITL

• Database Programming, Data Science – Various semesters, KMITL

• Web Mining – Fall 2022, KMITL

Talks:

• Generative AI for Daily Work, TISTR, April/September 2024 & April 2025

• Generative AI, EC GROUP, February 2025

• Introduction to LLMs and Generative AI, Thammasat Medical School, July 2025

• Accelerating the Machine Learning Process with LLMs, KMITL, September 2024

Education

Ph.D. in Computer Science – University of California, Riverside, 2017–2022 (Advisor: Michalis Faloutsos)

M.S. in Computer Science – University of Southern California, 2014–2016

B.E. in Computer Engineering – Chulalongkorn University, 2009–2012

Work History

• Lecturer, Linguistics Department, Chulalongkorn University, 2025–Present

• Lecturer, Computer Science Department, KMITL, 2023–2025

• Research Lab Leader, UC Riverside, 2021–2022 – Led NLP and data science projects, contributed to NSF-funded research

• Research Assistant, Spatial Sciences Institute, USC, 2016–2017 – Specialized in spatial data analysis using NoSQL

References and full publication list available upon request.