

Jakapun Tachaiya

Natural Language Processing Researcher
Linguistics Department, Chulalongkorn University
Bangkok, Thailand
jakapun.t@chula.ac.th
<https://jakapunt.github.io/profilePage/>

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.
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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](https://orcid.org/0000-0001-9779-1571)

Recent Publications

- **Investigating the Influence of Psychologists' Recommendations on Thai Juvenile Court Judgements**
Praingcharoenkit, C., Sangkhao, S., Kawto, W., Rutherford, A. T., & Tachaiya, J.
2024 JCSSE, Bangkok, Thailand

- **IKEA: Unsupervised Domain-Specific Keyword Expansion**

Tachaiya, J., et al.

2022 ASONAM, Istanbul, Turkey

- **SentiStance: Quantifying the Intertwined Changes of Sentiment and Stance**

Tachaiya, J., et al.

2021 ASONAM, The Hague, Netherlands

- **RAFFMAN: Measuring Sentiment in Online Political Forum Discussions During the Trump Impeachment**

Tachaiya, J., et al.

ICWSM 2020, Atlanta, Georgia

- **RThread: A Thread-Centric Analysis of Security Forums**

Tachaiya, J., et al.

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
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References and full publication list available upon request.