

Thamolwan Poopradubsil

53/587 Moo.5 Bangtalat, Pakkret, Nonthaburi, THAILAND 11120

• (+66) 83-075-6889 • tmw.poopradubsil@gmail.com

<https://thamolwanpo.github.io/>

EDUCATION

M.S. Computer Science and Information Engineering

2021

National Central University

Taoyuan, Taiwan

Thesis: Context-Aware Question-Answer Pairing and Dialogue Act Tagging from Instant Message Chatlog

B.S. Computer Science, First Class Honors

2019

Kasetsart University

Bangkok, Thailand

GPA: 3.88/4.00

PUBLICATIONS

ScanClimatePolicy: A Framework for Analyzing Sectoral Climate Policies and Their Environmental Impact

Thamolwan Poopradubsil, Panon Latcharote, Tipajin Thaipsisutikul

Under submission

IntelliMatch: Translating Research Intentions into Precision Dataset Recommendations with Contrastive Learning and LLM Re-Ranking

Thamolwan Poopradubsil, Tipajin Thaipsisutikul

Under submission

Question-Answer Pairing from IM Conversations via Message Merging and Reply-to Prediction

Thamolwan Poopradubsil, Chia-Hui Chang

PACLIC 2022 [\[paper\]](#)

Chat-log Disentanglement via Same-Thread Classification and Direct-Reply Prediction

Chia-Hui Chang, ZhiXian Liu, Thamolwan Poopradubsil, Yu-Ching Liao, Yu-Hao Wu

PACLIC 2022 [\[paper\]](#)

Antibody Watch: Text mining antibody specificity from the literature

Chun-Nan Hsu, Chia-Hui Chang, Thamolwan Poopradubsil, Amanda Lo, Karen A. William, Ko-Wei Lin, Anita E. Bandrowski, Ibrahim Burak Özyurt, Jeffrey S. Grethe, Maryann E. Martone.

PLoS Computational Biology 2021 [\[paper\]](#)

RESEARCH EXPERIENCE

Independent Researcher, advised by Dr. Tipajin Thaipisutikul
Faculty of ICT, Mahidol University

Nov. 2023 – Present
Nakhon Pathom, Thailand

- Analyzed sector-specific climate policies in *ScanClimatePolicy* across key sectors like Energy, Transportation, and Infrastructure, focusing on policy effectiveness.
- Developed a framework emphasizing context-specific strategies to improve climate policy impact on GHG emission reduction.
- Created dataset recommendation systems for the *IntelliMatch* project using sentence-based searches and large language models.
- Enhanced dataset retrieval efficiency and user experience by improving traditional search methods.

Graduate Student, lab of Dr. Chia-Hui Chang

Sep. 2019 – Jul. 2021

Computer Science and Information Engineering, National Central University Taoyuan, Taiwan

- Developed a reply-to prediction model for instant messaging platforms, improving message merging and Q&A pairing.
- Enhanced dialogue act tagging with BERT for better contextual understanding, integrating it into a retrieval-based chatbot for answer selection.
- Applied SciBERT for antibody classification, advancing biomedical text mining.

Undergraduate Student, supervised by Dr. Chakrit Watcharopas

Jan. 2019 - June 2019

Co-Advisors: Dr. Usa Sammapun and Dr. Ruj Akavipat

Department of Computer Science, Faculty of Science, Kasetsart University Bangkok, Thailand

- Developed a deep learning system for autonomous vehicles as part of the thesis *Self-Driving Car using Imitation Deep Learning*, to imitate human driving behavior in a car simulator.
- Constructed a dataset from CARLA (autonomous vehicle driving simulator) and augmented the data for training.

TEACHING EXPERIENCE

Teaching Assistant, Computer Science, Kasetsart University

2018

Algorithm Design and Analysis

- Designed lab quizzes, including questions and answer keys, for each algorithm lesson, ensuring comprehensive understanding and assessment of key concepts.

HONORS & AWARDS

MOE Taiwan Scholarship Directions for Thai Students

2019 - 2021

Fully funded, covering tuition and a monthly stipend.

Awarded the fully-funded MOE Taiwan Scholarship, granted to top Thai candidates based on academic merit and competitive selection.

Certificate of Academic Excellence

2017, 2018

Recognized for maintaining high academic standing at Kasetsart University.

KU King Bhumibol Scholarship (Excellent Academic Achievement Award)

2017

Awarded to the top 5 students in each faculty at Kasetsart University based on academic performance.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

Sep. 2021 - Apr. 2024

Appman Co, Ltd.

Bangkok, Thailand

- Developed and deployed information extraction models for automating data extraction from OCR outputs in image documents.
- Built a Thai-English machine translation system using the BART model, enhancing spoken language translation.
- Created a grounded chatbot for sales scenarios, utilizing large language models for accurate, knowledge-based responses.

PRESENTATIONS

Oral Presentation, “Question-Answer Pairing from IM Conversations via Message Merging and Reply-to Prediction”, PACLIC 2022, 2022, Online.

Oral Presentation, “Chat-log Disentanglement via Same-Thread Classification and Direct-Reply Prediction”, PACLIC 2022, 2022, Online.

LEADERSHIP

President of KU Computer Science Students

2018

Led student activities and coordinated academic events for the computer science department.

EXTRACURRICULAR ACTIVITIES

NCU's Badminton Athlete/University Games of Taiwan	2020, 2021
KU's Badminton Athlete/University Games of Thailand	2017, 2018

REFERENCES

Dr. Tipajin Thaipisutikul – Faculty of ICT, Mahidol University
Email: tipajin.tha@mahidol.edu

Dr. Chia-Hui Chang - Computer Science and Information Engineering, National Central University
Email: chiahui@g.ncu.edu.tw

Dr. Chakrit Watcharopas – Computer science, Kasetsart University
Email: chakrit.w@ku.th