

Patomporn Payoungkhamdee

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Research Interests

Multilingual Post-Training, Tool-Use, and Evaluations

Education

Vidyasirimedhi Institute of Science and Technology (VISTEC)

DOCTOR OF PHILOSOPHY PROGRAM IN INFORMATION SCIENCE AND TECHNOLOGY

2021 - 2026

- Advisor: Assoc. Prof. Sarana Nutanong

Mahidol University

MASTER OF SCIENCE IN PHYSICS

2018 - 2020

- Advisor: Asst. Prof. Warit Mitthumsiri

Mahidol University

BACHELOR OF SCIENCE IN PHYSICS (FIRST CLASS HONORS)

2014 - 2017

- Advisor: Asst. Prof. Warit Mitthumsiri

Selected Publications

- **Exploring Extrinsic and Intrinsic Properties for Effective Reasoning with Code Interpreter**

Patomporn Payoungkhamdee, Napat Laosaengpha, Jenta Wonglertsakul, Pittawat Taveekitworachai, Pume Tuchinda, Panjapong Poobanchuen, Ekapol Chuangsuwanich, Can Udomcharoenchaikit, Samuel Cahyawijaya, Peerat Limkonchotiwat, Sarana Nutanong (**TMLR 2026**)

- **DuDi: Dual-Signal Distillation with Cross-Lingual Verbalizer**

Patomporn Payoungkhamdee*, Tinnakit Udsa*, Jian Gang Ngui, Sarana Nutanong, Alham Fikri Aji, Peerat Limkonchotiwat (**AACL 2026**)

- **SEATauBench: Adapting Tool-Agent-User Evaluation Into Low-Resource Southeast Asian Languages**

My Chiffon Nguyen, Aulia Adila, Saksorn Ruangtanusak, Kittiphat Leesombatwathana, Vissuta Gunawan Lim, Patomporn Payoungkhamdee, Samuel Cahyawijaya (**Findings of EMNLP 2026**)

- **Exploring Cross-Client Memorization of Training Data in Large Language Models for Federated Learning**

Tinnakit Udsa, Can Udomcharoenchaikit, Patomporn Payoungkhamdee, Sarana Nutanong, Norrathep Rattanavipanon (**ACL 2026**)

- **Towards Better Understanding of Program-of-Thought Reasoning in Cross-Lingual and Multilingual Environments**

Patomporn Payoungkhamdee, Pume Tuchinda, Jinheon Baek, Samuel Cahyawijaya, Can Udomcharoenchaikit, Potsawee Manakul, Peerat Limkonchotiwat, Ekapol Chuangsuwanich, Sarana Nutanong (**Findings of ACL 2025**)

- **An Empirical Study of Multilingual Reasoning Distillation for Question Answering**

Patomporn Payoungkhamdee, Peerat Limkonchotiwat, Jinheon Baek, Potsawee Manakul, Can Udomcharoenchaikit, Ekapol Chuangsuwanich, Sarana Nutanong (**EMNLP 2024**)

- **Mitigating Spurious Correlation in Natural Language Understanding with Counterfactual Inference**

Can Udomcharoenchaikit, Wuttikorn Ponwitayarat, Patomporn Payoungkhamdee, Kanruethai Masuk, Weerayut Buaphet, Ekapol Chuangsuwanich, Sarana Nutanong (**EMNLP 2022**)

Voluntary Service

2026 **Mentor in SEACrowd 2026 Apprentice**, Multilingual Agentic for Underrepresented Regions

2025-2026 **Reviewer of ARR**, (ACL Rolling Review)

Experience

- Jan 2026 – Jun 2026 **Visiting Scholar, AI Singapore**
Developed DuDi, a distillation framework for small LM post-training in Southeast Asian languages.
- Jul 2020 – Mar 2022 **Data Scientist, Backyard**
Engineered scalable batch and streaming data pipelines on big data platforms to deploy geospatial and time-series forecasting models, while contributing to NLP research on model faithfulness.
- Jan 2020 – Jun 2020 **Data Scientist, Listenfield**
Analyze time series data, containerize an agriculture model, and implement an automated forecasting data pipeline to keep the results in the data warehouse.
- Jun 2019 – Aug 2019 **Summer Student, CERN**
Working in the Data Quality Monitoring (DQM) unit as part of the Compact Muon Solenoid (CMS) detector. Developed semi-supervised learning by applying unsupervised traditional ML models and multi-flavor of Autoencoders for distinguish outlier data to certify data quality in lumisection level.
- Nov 2018 – May 2019 **Full-stack Developer, Freelance**
Digest customer requirements in SMEs' business to help them digitize their transactions. Design relational databases, building API and summary visualizations, as well as a paperwork generator.
- Aug 2017 – Jul 2018 **Junior Developer (Part-Time), Divertise Asia**
Research and prototyping deep learning models: i) Soccer Prediction from NLP-like technique for predicting probabilistic results ii) Fighting Game: Design Imitation Learning algorithm by taking vision input to imitate player behavior and build Reinforcement Learning for teaching an initial agent
- Jun 2018 – Aug 2017 **Summer Research Intern, University of Pisa**
Improve measurement precision of gamma-ray spectrum and determined the variation of incident cosmic rays by using Monte Carlo simulation.