Phakphum Artkaew ภาคภูมิ อาจแก้ว *Updated September 5, 2026*

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Research interests

Low-resource languages, Interpretability and Analysis of Models for NLP, Commonsense reasoning, Multilinguality

Education

Indiana University Bloomington Bloomington, IN
Ph.D. in Computational Linguistics 08/2025 – Expected 05/2030
Advisor: Luke Gessler
GPA: 3.56/4.00

New York University, Tandon School of Engineering Brooklyn, NY
MS in Computer Engineering 09/2023 – 05/2025
Thesis: Commonsense Reasoning in Multilingual Models: Benchmarking and Merging Approaches
Advisors: Ernest Davis & Chinmay Hegde
GPA: 3.73/4.00

Penn State University, Schreyer Honors College State College, PA
BS in Computer Science 08/2019 – 05/2023
Thesis: Extracting Information from Scientific Figures Using a Natural Language Processing Technique
Advisor: Kenneth Huang
GPA: 3.43/4.00

Selected coursework
Natural Language Understanding and Computational Semantics, Language models: cognitive plausibility and sample efficiency

Honors and scholarships

Graduate School of Engineering Scholarship Award (NYU) 2023-2025
1st place, DevPSUStartup2020 (Penn State ACM) 2020
17th place ICPC ECNA (ACM ICPC) 2019
Finalist (13th Thailand Olympiad in Informatics) 2018
Royal Thai Scholarship Recipient (Government of Thailand) 2018-Present

Research experience

DICE Lab
Advisor: Ernest Davis & Chinmay Hegde (NYU) 06/2024 – 05/2025
Tackled challenges in commonsense reasoning and multilingualism as part of my thesis.
Initiated the translation of English Winograd Schemas into Thai and evaluate it on language models.

Crowd-AI Lab
Advisor: Kenneth Huang (Penn State University) 10/2021 – 05/2023

Innovatively used EasyOCR on scicap dataset for text extraction in figures, devising precise x-y templates from the identified texts.
Led a research initiative focused on the identification of logical fallacies across social media discourse.

Intelligent Vehicles and System Group
Advisor: Sean Brennan (Penn State University) 06/2022 – 08/2022
Led the coordination of the PennDOT-funded initiative focusing on integrating automated vehicles safely into work zones.
Carried out the implementation of the road segments parse xodr , streamlining project processes.

NutriX
Advisor: Mahfuza Farooque (Penn State University) 03/2020 – 02/2021
Engineered text-based machine learning models for the detection of nine specific allergens in diverse food categories.
Collected and cleaned public datasets from Kaggle; performed LinearSVC analysis.

Preprint

Sailor2: Sailing in South-East Asia with Inclusive Multilingual LLMs
Dou, L., Liu, Q., Zhou, F., Chen, C., Wang, Z., … **Artkaew, P.**, … Lin, M.

Workshop paper

Thai Winograd Schemas: A Benchmark for Thai Commonsense Reasoning
Artkaew, P.
SEALP 2025 (COLING 2025 Workshop)

Culturally-Aware Image Captioning for Guaraní with Multimodal Prompting: IUHoosiers at AmericasNLP 2026
Wenchen Shi*, **Phakphum Artkaew***, Luke Gessler (*Equal contribution)
AmericasNLP 2026

Conference paper

Crowdsource, crawl, or generate? creating sea-vl, a multicultural vision-language dataset for southeast asia
Cahyawijaya, S., Lovenia, H., Moniz, J. R. A., Wong, T. H., Farhansyah, M. R., … **Artkaew, P.**, … Limkonchotiwat, P.
ACL 2025

Translation-Induced Label Drift in Natural Language Inference: Evidence from Nine Languages
Abdo, M. S., Benavides P., J., **Artkaew, P.**, Naske, E., Shi, W., Karkoutli, H., Attala e Paiva, E. H., Ashraf, S., Wang, J., Lieffers, M., & Kuebler, S.
EMNLP 2026 (to appear)

Industry experience

Agoda Bangkok, Thailand
Software Engineer Intern Summer 2021
Designed and Developed a Vue.js-based back office tool for content management, enabling generation, viewing, deletion, and cache resetting functions. Constructed and deployed Scala-driven API connections to enable interaction with Couchbase databases.

Talks and tutorials

NutriX: A Smart Way to Recommend Your Foods 06/2021
2021 IEEE EMBS North American Virtual International Student Conference

Skills

Technology
Proficient in: C, C++, Python, Java, Javascript, Vue.js, Scala, Swift.
Familiar with: PHP, Couchbase, Kafka.

Languages
Thai (native), English (fluent)

Service and outreach

Thai Student Association at Penn State 05/2020 – 05/2021
Designed event posters and infographics, and managed club's Instagram and Facebook updates.

Otog.in.th 05/2017 – 09/2019
Managed a programming grader website to support underclassmen in learning competitive programming.

Professional memberships

Penn State Association for Computing Machinery. 12/2020 – 12/2022
Managed club finances, organized an annual university programming contest(CodePSU) with 60+ attendees, and led weekly data structures and algorithms workshops(AlgoPSU).

Other interests

Outside of work, I relax by playing Nintendo Switch games and watching movies. For staying active, I enjoy running, walking, and indulging in sightseeing and snowboarding whenever possible.