

Tanawan Premisri

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Education

Michigan State University

PH.D. IN COMPUTER SCIENCE

- Cumulative GPA: 4.00/4.00; Major GPA: 4.00/4.00

East Lansing, MI, USA

Aug. 2023 – May 2028 (expected)

Michigan State University

B.S. IN COMPUTER SCIENCE

- Cumulative GPA: 4.00/4.00 Major GPA: 4.00/4.00
- Dean's List Fall 2019 - Spring 2023

East Lansing, MI, USA

Aug. 2019 - May 2023

Experience

IVADO

VISITING GRADUATE RESEARCHER

- Conducted research in collaboration with IVADO, focusing on the spatial understanding of language models.

Montreal, Canada

Sep 2025 - Oct 2025

Michigan State University

RESEARCH ASSISTANT

- Conduct and design the experiment on evaluating spatial ability and spatial reasoning of language models, including large language models and multimodal large language models.
- Implement deep learning tasks inside the DomiKnowS framework with the integration of an executable program with a neural-symbolic approach
- Prepared data for reports, presentation, and submission to a peer-reviewed journal publication

East Lansing, MI, USA

Aug 2023 - Present

Michigan State University

SUMMER RESEARCH ASSISTANT INTERN

- Implemented and analyzed the machine learning experiments related to natural language processing via the DomiKnowS framework, HLR developed framework
- Prepared data for reports, presentation, and submission to a peer-reviewed journal publication

East Lansing, MI, USA

May 2022 - Aug 2022

Michigan State University

UNDERGRADUATE LEARNING ASSISTANT

- Provided suggestions and guided students on data structure and algorithm course to solve problems and other difficulties related to this class.
- Implemented programming projects and problems for students to earn and practice several data structures and algorithms

East Lansing, MI, USA

Jan. 2021 - May. 2023

Publications

- Tanawan Premisri**, P. Kordjamshidi. *For-SALE: Frame of Reference-guided Spatial Adjustment in LLM-based Diffusion Editing*. arXiv preprint, 2025.
- Tanawan Premisri**, P. Kordjamshidi. *ForEST: Frame of Reference Evaluation in Spatial Reasoning Tasks*. Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP), 2025. **SAC Highlight Award**.
- S. Sinha, **Tanawan Premisri**, P. Kordjamshidi. *Toward a Clearer Characterization of Neuro-Symbolic Frameworks: A Brief Comparative Analysis*. Proceedings of Machine Learning Research (PMLR), 2025.
- Tanawan Premisri**, P. Kordjamshidi. *Neuro-symbolic Training for Reasoning over Spatial Language*. In *Findings of the Association for Computational Linguistics: NAACL 2025*, 2025.
- S. Sinha, **Tanawan Premisri**, P. Kordjamshidi. *A Survey on Compositional Learning of AI Models: Theoretical and Experimental Practices*. Transactions on Machine Learning Research (TMLR), 2024.
- H.R. Faghihi, A. Nafar, C. Zheng, R. Mirzaee, Y. Zhang, A. Uszok, A. Wan, **Tanawan Premisri**, P. Kordjamshidi, et al. *Gluecons: A generic benchmark for learning under constraints*. Proceedings of the AAAI Conference on Artificial Intelligence, 2023.

Related Coursework and Projects

TUMOR CLASSIFICATION: MRI IMAGE CLASSIFICATION

- Developed a multimodal vision-language model for MRI tumor classification, improving predictive accuracy.
- Apply data pre-processing techniques and prompt engineering to the recent vision and language model to perform the task effectively.
- Analyze the results and provide the discussion on the potential works in the area to improve the performance further

PREDICTION OF FRAUD IN THE DENTAL INSURANCE

- Implemented and designed a supervised learning machine learning model to predict the risk score of being fraudulent based on the given data set.
- Analyzed and turned the model based on the result of the model to improve the performance.
- Design the web interface for the user to interact and provide a criteria score to filter the potential fraud.

Honors & Awards

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| 2025 | SAC Highlight Award , EMNLP 2025 — FoREST (First Author) | <i>Suzhou, China</i> |
| 2019 - 2023 | Dean's Honor List , Michigan State University | <i>MI, USA</i> |
| 2018 | Full scholarship covering study in the United States , IPST, Thailand | <i>Thailand</i> |
| 2017 | Highest score and gold medal , Thailand Olympiad in Informatics | <i>Thailand</i> |

Services & Activities

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| 2025 | Reviewer , SpaVLE Workshop'25, AAAI'26, ILCR'26 | <i>MI, USA</i> |
| 2020 | Web-Manager , Thai Club | <i>MI, MSU</i> |