Wish Suharitdamrong

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Bio & Research Interests

I am a second-year PhD student at the Surrey Institute for People-Centred AI (PAI), University of Surrey, working on multimodal large language models and multimodal representation learning, supervised by Dr. Sara Atito, Dr. Muhammad Awais and Dr. Xiatian Zhu. Before my PhD, I completed an MSc in Artificial Intelligence at Surrey, where my dissertation on parameter-efficient fine-tuning of vision-language foundation models for multi-task visual grounding was supervised by Dr. Muhammad Awais and co-supervised by Tony Alex. I also completed a BSc in Computer Science at Surrey, where my dissertation on audio-visual lip synthesis was supervised by Prof. Zhenhua Feng.

I am interested in how multimodal models combine information from different modalities, such as language, vision, and audio, into a unified understanding and representation. My research focuses on designing multimodal large language models and representation learning methods, and on understanding how these models process information from each modality internally. Knowing what happens inside these models is what allows us to build ones that are more capable, efficient, and reliable.

- Multimodal Representation Learning *(Currently Working)*
- Multimodal Foundation Models
- Mechanistic Interpretability of Multimodal Large Language Models (MLLMs)
- Parameter Efficient Fine-Tuning

Publications

W. Suharitdamrong, M. Awais, X. Zhu, S. Atito. "From Senses to Decisions: The Information Flow of Auditory and Visual Perception in Multimodal LLMs." *Advances in Neural Information Processing Systems (NeurIPS)*, 2026.

W. Suharitdamrong, T. Alex, M. Awais, S. Ahmed. "CoLA: Cross-Modal Low-rank Adaptation for Multimodal Downstream Tasks." *International Conference on Machine Learning (ICML)*, 2026.

Preprints

W. Suharitdamrong, T. Alex, M. Awais, S. Atito. "The Hidden Evolution of Disguised Visual Context inside the VLM." *arXiv preprint arXiv:2606.20077*, 2026. (Under review at ICLR 2027)

T. Alex*, **W. Suharitdamrong***, S. Atito, A. Mustafa, P. J. B. Jackson, I. Razzak, M. Awais. "PAL: Probing Audio Encoders via LLMs: Audio Information Transfer into LLMs." *arXiv preprint arXiv:2506.10423*, 2025. (Under review at EACL 2027, joint first author)

T. Alex, **W. Suharitdamrong**, S. Atito, A. Mustafa, M. Awais, P. J. B. Jackson, J. Deng, I. Elezi. "Listen, Reason, and Segment: Aligning LALMs with Editorial Judgment for Media Chapterization." *arXiv preprint arXiv:2608.16539*, 2026. (Under review at TMLR)

Under Review

"Self-Supervised Learning with Explicit Intra-Image Repulsion." *Under review at International Journal of Computer Vision (IJCV)*. (Joint first author)

Education

University of Surrey Guildford, United Kingdom
PhD in Artificial Intelligence *Apr 2025 – Mar 2029*

- Research area: Multimodal Foundation Models
- Supervisors: Dr. Sara Atito, Dr. Muhammad Awais and Dr. Xiatian Zhu
- Current research: working on Multimodal Large Language Models (MLLMs) and Multimodal Representation Learning

MSc Artificial Intelligence *Feb 2024 – Feb 2025*

- Grade: Distinction
- Supervisor: Dr. Muhammad Awais; Co-supervisor: Tony Alex
- *Dissertation*: "Parameter Efficient Finetuning of Vision-Language Foundation Model for Multi-Task Visual Grounding"

BSc Computer Science *Sep 2020 – Jul 2023*

- Grade: First Class Honours
- Supervisor: Prof. Zhenhua Feng
- *Dissertation*: "Audio Visual Lip Synthesis via Intermediate Landmark Representation"

International Foundation Year in Engineering and Physical Sciences *Sep 2019 – Jul 2020*

Home School (Self Studies) Jun 2017 – Nov 2017
International General Certificate of Secondary Education (IGCSE) Examination *Bangkok, Thailand*

- Computer Science (A*)
- *Awarded*: Outstanding Cambridge Learner Award for the highest IGCSE Computer Science score in Thailand

Genesis Global School Jun 2016 – Jun 2017
Secondary School, Grade 9 *Noida, India*

Saint Joseph North Point Oct 2013 – May 2016
Secondary School, Grades 7 to 8 *Darjeeling, India*

Saint Gabriel's College 2007 – Sep 2013
Primary School, Grades 1 to 6 *Bangkok, Thailand*

Work Experience

Teaching Assistant Sep 2025 – Present
School of Computer Science and Electronic Engineering, University of Surrey *Guildford, United Kingdom*

- EEEM066 Fundamentals of Machine Learning (Sep 2026 – Dec 2026)
- COM3025 Deep Learning and Advanced AI (Feb 2026 – Present)
- EEEM068 Applied Machine Learning (Feb 2026 – Present)
- COM3013 & COMM062 Computational Intelligence (Sep 2025 – Dec 2025)

University of Surrey Summer FEPS Summer Vacation Internship 20 July – 26 August 2022
University of Surrey *Guildford, United Kingdom*

- Conducted research on Speech Driven Talking Face Generation using deep generative models. Project code: github.com/peterwisu/lip-synthesis

Awards & Honors

Outstanding Cambridge Learner Award IGCSE Cambridge 2017

Cambridge Assessment International Education *Bangkok, Thailand*

- Awarded for an Outstanding Cambridge Learner Award IGCSE Cambridge "Computer Science" in Oct/Nov 2017 IGCSE examination as a highest score in Thailand

Technical Skills

Operating System: Linux,MacOs,Windows
Other tools: HTCondor, SLURM
Language: Thai (Native), English (Fluent)