Wang Han, PhD Student.

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🌐 https://scholar.google.com.sg/citations?user=vAOOVEMAAAAJ&hl=en

Education

2023 – Now 🔖 **Ph.D. Information Systems Technology and Design, Singapore University of Technology and Design (SUTD)**
GPA: 5/5
Specialisation Tracks: *Multimodal Social Tasks*

2018 – 2022 🔖 **Bach (Honours). Information Systems Technology and Design, Singapore University of Technology and Design (SUTD)**
GPA: 4.4/5
Specialisation Tracks: *Data Analytics and Artificial Intelligence*

Employment History

2022 – Now 🔖 **Research Assistant,** Singapore University of Technology and Design (SUTD)
2025 May – 2025 Aug 🔖 **Summer Internship,** Tencent

Scholarship and Awards

Senior Middle 2 Scholarship 🔖 Full Undergraduate Scholarship Funded by the Singapore Government

Data Analytics Track Award 🔖 Top Student Award in SUTD Data Analytics Track

Sharp Program Certificate 🔖 SUTD Honours Research Program

Research Publications

Conference Proceedings

1. **Wang, H.**, R. Y. Tan, and R. K. W. Lee, "Cross-modal transfer from memes to videos: Addressing data scarcity in hateful video detection," in *Proceedings of the ACM on Web Conference 2025 (WWW)*, 2025, pp. 5255–5263.

2. **Wang, H.**, Z. Wang, and R. K.-W. Lee, "Hateclipseg: A segment-level annotated dataset for fine-grained hate video detection," in *Proceedings of the 33nd ACM International Conference on Multimedia (ACM MM)*, 2025.

3. **Wang, H.** and R. K. W. Lee, "Memecraft: Contextual and stance-driven multimodal meme generation," in *Proceedings of the ACM on Web Conference 2024 (WWW)*, May 2024, pp. 4642–4652.

4. **Wang, H.**, T. R. Yang, U. Naseem, and R. K. W. Lee, "Multihateclip: A multilingual benchmark dataset for hateful video detection on youtube and bilibili," in *Proceedings of the 32nd ACM International Conference on Multimedia (ACM MM)*, 2024, pp. 7493–7502.

5. N. Prakash, **Wang, H.**, N. K. Hoang, M. S. Hee, and R. K. W. Lee, "Promptmtopic: Unsupervised multimodal topic modeling of memes using large language models," in *Proceedings of the 31st ACM International Conference on Multimedia (ACM MM)*, Oct. 2023, pp. 621–631.

6   **Wang, H.**, M. S. Hee, M. R. Awal, K. T. W. Choo, and R. K. W. Lee, "Evaluating gpt-3 generated explanations for hateful content moderation," in *The 32nd International Joint Conference on Artificial Intelligence (IJCAI)*, Aug. 2023, pp. 6255–6263.

7   **Wang, H.**, N. Prakash, N. K. Hoang, M. S. Hee, U. Naseem, and R. K. W. Lee, "Prompting large language models for topic modeling," in *2023 IEEE International Conference on Big Data (BigData)*, 2023, pp. 1236–1241.

Ongoing Project

AAAI 2026   We propose a binary self-training framework for low-resource offensive content detection, using collaborative pseudo-labeling with MA-VLMs and a novel PNU loss to leverage limited labeled and abundant unlabeled data, outperforming baselines.

WWW 2026   We propose a bi-modal framework for social related tasks detection in streaming video, where a small model predicts first and adaptively invokes the LLM only when necessary, achieving near-LLM performance while reducing LLM usage by 80%.