

Cheng-Kuang (Brian) Wu

Senior Research Scientist

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EXPERIENCE

Senior Research Scientist @ Appier, Taipei, Taiwan 2024.01 – present

- Core topics: robustness and trustworthiness issues of LMs, with recent focus on calibration and uncertainty quantification.

Machine Learning Scientist Intern @ Vysioneer, Taipei, Taiwan 2023.07 – 2023.10

- Designed, implemented, and trained 3D ResNets from scratch to classify MRI modalities (e.g., T1, T1c, T2, and FLAIR).

Medical Intern @ National Taiwan University Hospital (NTUH), Taipei, Taiwan 2019.08 – 2021.06

- Also worked as a part-time research assistant on a joint project between the NTUH Emergency Medicine Department and NTU Computer Science Department, developing multi-label classification models based on ICD diagnostic codes.

EDUCATION

National Taiwan University, Taipei, Taiwan 2022.02 – 2024.07
Master of Science (MSc) in Computer Science Cumulative GPA: 4.20/4.30

National Taiwan University, Taipei, Taiwan 2015.09 – 2021.06
Doctor of Medicine (M.D.) Cumulative GPA: 4.22/4.30
Dean's List, 7 semesters

PUBLICATIONS

Conference Proceedings

* denotes equal contributions

- [C9] Zhi Rui Tam, **Cheng-Kuang Wu**, Chieh-Yen Lin, Yun-Nung Chen. “None of the Above, Less of the Right Parallel Patterns in Human and LLM Performance on Multi-Choice Questions Answering”. In *ACL 2025 (Findings)*.
- [C8] **Cheng-Kuang Wu***, Zhi Rui Tam*, Chieh-Yen Lin, Yun-Nung Vivian Chen, Hung-yi Lee. “StreamBench: Towards Benchmarking Continuous Improvement of Language Agents”. In *NeurIPS 2024 (Datasets and Benchmarks Track)*.
- [C7] **Cheng-Kuang Wu***, Zhi Rui Tam*, Chao-Chung Wu, Chieh-Yen Lin, Hung-yi Lee, Yun-Nung Chen. “I Need Help! Evaluating LLM’s Ability to Ask for Users’ Support: A Case Study on Text-to-SQL Generation”. In *EMNLP 2024*.
- [C6] Zhi Rui Tam*, **Cheng-Kuang Wu***, Yi-Lin Tsai, Chieh-Yen Lin, Hung-yi Lee, and Yun-Nung Chen. “Let Me Speak Freely? A Study On The Impact Of Format Restrictions On Large Language Model Performance”. In *EMNLP 2024 (Industry Track)*.
- [C5] Sheng-Lun Wei, **Cheng-Kuang Wu**, Hen-Hsen Huang, Hsin-Hsi Chen. “Unveiling Selection Biases: Exploring Order and Token Sensitivity in Large Language Models”. In *ACL 2024 (Findings)*.
- [C4] Wei-Lin Chen*, **Cheng-Kuang Wu***, Yun-Nung Chen, Hsin-Hsi Chen. “Self-ICL: Zero-Shot In-Context Learning with Self-Generated Demonstrations”. In *EMNLP 2023*.
- [C3] Wei-Lin Chen, **Cheng-Kuang Wu**, Hsin-Hsi Chen, Chung-Chi Chen. “Fidelity-Enriched Contrastive Search: Reconciling the Faithfulness-Diversity Trade-Off in Text Generation”. In *EMNLP 2023*.
- [C2] Wei-Lin Chen, An-Zi Yen, **Cheng-Kuang Wu**, Hen-Hsen Huang, Hsin-Hsi Chen. “ZARA: Improving Few-Shot Self-Rationalization for Small Language Models”. In *EMNLP 2023 (Findings)*.
- [C1] **Cheng-Kuang Wu***, Wei-Lin Chen*, Hsin-Hsi Chen. “Large Language Models Perform Diagnostic Reasoning”. In *ICLR 2023 (Tiny Papers Track)*.

Books

- [B1] Jun-Zhen Yang and **Cheng-Kuang Wu**. “Detailed Solutions to the 2020 Taiwanese Medical Doctor Licensing Exam: Basic Medical Sciences”. By *Ho-Chi Book Publishing Co.*, Taipei, Taiwan. 2020. ISBN13: 9789863683841.

Tutorials

- [T2] **Cheng-Kuang Wu**, Zhi Rui Tam, Oscar Chew, Kuan-Hao Huang. “On Robustness of Vision-Language Models” Submitted to *Joint Call for Tutorial Proposals (EACL/ACL) 2026*. (Under review)
- [T1] **Cheng-Kuang Wu**, Zhi Rui Tam, Kuan-Hao Huang. “Towards Robust and Trustworthy Large Language Models: Issues and Mitigation Strategies”. In *The 17th Asian Conference on Machine Learning (ACML 2025)*. December 2025.

Preprints

- [P2] Zhi Rui Tam, **Cheng-Kuang Wu**, Yu Ying Chiu, Chieh-Yen Lin, Yun-Nung Chen, Hung-yi Lee. “[Language Matters: How Do Multilingual Input and Reasoning Paths Affect Large Reasoning Models?](#)” *arXiv preprint arXiv:2505.17407*
- [P1] **Cheng-Kuang Wu**, Zhi Rui Tam, Chieh-Yen Lin, Yun-Nung Chen, Hung-yi Lee. “[Answer, Refuse, or Guess? Investigating Risk-Aware Decision Making in Language Models](#)”. *arXiv preprint arXiv:2503.01332*

PROJECTS

async-llms: An Open-Source Python Library for Asynchronous LLM Calls

- I developed a light-weight package for making asynchronous LLM inference calls to accelerate experiments.

PROFESSIONAL SERVICES

Reviewer

Journals:

- Nature (April 2025, review identifier: [4c7923e8d5a1ce8ff3a57b8686b78cab](#))

Conferences:

- ICLR 2026
- NeurIPS 2025
- ACL Rolling Review (2024, 2025)

Area Chair/Action Editor

Conferences:

- ACL Rolling Review (October 2024) (NAACL 2025 Cycle)

Student Volunteer

Conferences:

- SIGIR 2023