Yang Wang

✉ y.wang4@sheffield.ac.uk   📱 +44 7840157260   🏠 Personal Website

Education

University of Sheffield (*Distinction*)   **Sheffield, UK**
MSc Computer Science with Speech and Language Processing   *Oct 2020 - Sept 2021*

National Chung Hsing University   **Taichung, TW**
BSc Applied Mathematics   *Sept 2014 - June 2018*

Working Experience

The University of Sheffield   **Sheffield, UK**
ML and NLP Engineer, KTP Associate   *April 2023 – Present*

- Proposed a novel textual adversarial defence method to mitigate text-based adversarial attacks, achieving a 30% improvement in system robustness by reducing performance drop rates.
- Developed CONFIT, an advanced audio fine-tuning framework that integrates contrastive-based fine-tuning, parameter-efficient fine-tuning, and supervised fine-tuning techniques to enhance model performance.

Automated Analytics   **Doncaster, UK**
Research Intern   *November 2021 - September 2022*

- Undertook the development of an advanced call categorisation system, achieving a 20% increase in classification accuracy and significantly outperforming the current in-house model.
- Developed a custom in-house Whisper-based transcription model using distillation techniques, achieving 3x faster inference while maintaining on-par performance with the original model.

VoiceBase Centre   **Sheffield, UK**
Research Intern   *May 2021 - May 2022*

- Designed a speaker embeddings de-mixing framework using VoiceBase mini-framework.

Publications

1. **Y. Wang**, C. Lin, *Tougher Text, Smarter Models: Raising the Bar for Adversarial Defence Benchmarks*, Proceedings of the 31st International Conference on Computational Linguistics (**COLING 2025**), **Oral Presentation**. **Link**: https://aclanthology.org/2025.coling-main.432/.
2. G. Tomas, **Y. Wang**, C. Lin, C. Chung-Chi, *From Facts to Insights: A Study on the Generation and Evaluation of Analytical Reports for Deciphering Earnings Calls*, Proceedings of the 31st International Conference on Computational Linguistics (**COLING 2025**), **Oral Presentation**. **Link**: https://aclanthology.org/2025.coling-main.705/.
3. **Y. Wang**, C. Xiao, Y. Li, S. Middleton, N. Moubayed, C. Lin, *Adversarial Defence without Adversarial Defence: An Instance-level Principal Component Removal Approach*, Transactions of the Association for Computational Linguistics (**TACL**), *Under Review*.
4. **Y. Wang**, Q. Liang, C. Xiao, Y. Li, N. Moubayed, C. Lin, *Audio Contrastive based Fine-tuning*, Transactions on Audio, Speech, and Language Processing (**TASLP**), *Under Review*. **Link**: https://arxiv.org/abs/2309.11895.

Additional Experience

1. Team member of England National Volleyball Team in NVL Super League 2021/2022.
2. Team member of Yorkshire Men's Super League (currently 1st ranking) 2023/2024.
3. Leeds Malaysian Games 1st place in 2025 administered by Malaysian Society.