

# Kunze Wang

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## Education

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**The University of Sydney, Doctor of Philosophy** 2020.3 ~ 2023.3

- Research Topics: **Graph Neural Networks** in NLP, **Abusive Language Detection**, **Knowledge Graph**
- Visiting Student of the University of Hong Kong: medical-related Knowledge Base Question Answering system

**The University of Sydney, Master of IT and IT Management** 2017.7 ~ 2019.12

- Weighted Average Mark: 83.1 (Distinction average)
- Awards: **2 Postgraduate High Honor Rolls**(2018, 2019), Summer Research Scholarship from School of Computer Science.

**Nanjing University, Bachelor in Geology, Geophysics** 2011.9 ~ 2015.6

- Weighted Average Mark: 4.33/5 (top 10%)
- Awards: **Graduated with honours**, People's Scholarship and other scholarships from Nanjing University.
- Student Activities: Vice President of Students Union, Vice President of Singers Association, Moderator of NJU BBS.

## Working Experience

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**ROKT, Machine Learning Engineer** 2023.3 ~ Now

- **Recommendation System, Computational Advertising, Customer Data Platform, Identity Graph**
- **Lookalike Audience for Targeting**: expand the existing lists customers of the demand sides for targeting with lower CPA
- **User behavior information for CTR Prediction**: apply DIN and embedding methods to improve model performance.
- **Customer attributes prediction**: real-time prediction models on users' attributes for candidate selection
- **Identity Graph Confidence Score**: design a mechanism to assign confidence score for past sessions for higher precision
- Promoted from **L2** to **L3A**, then to **L3B** within one year, the only exception.

**Meituan Company, Machine Learning Researching Engineer** 2022.3 ~ 2022.6

- Optimized Meituan Search Engine by updating the data and model in a **query understanding** module – where/what.
- Contributions: dataset enlargement, data cleaning based on rules and learned models, improvement of model architecture.

**The University of Sydney, TA and Tutor** 2020.3 ~ 2021.7

- Course: COMP5046 **NLP**(highest students feedback score), COMP5318 **Machine Learning**, COMP5703 **Capstone**.
- Assisted in preparing coding material, answered questions, taught code, and marked assignments and exams.
- GoogleExploreCSR@Sydney, led students to conduct research on speech recognition projects and reported the results.

**Beijing Jiyuzhoutian IT Co., Ltd, Data-Driven Project Manager** 2015.7 ~ 2016.7

- Data Analysis and data mining (Python, SQL), basic webpage design (Html, CSS), and google SEO strategy design.

## Publications

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[1] **Wang, K.**, Ding, Y., & Han, S. C. (2023). Graph neural networks for text classification: a survey. Accepted at *Artificial Intelligence Review*.

[2] **Wang, K.**, Han, C., & Poon, J. (2023, December). Re-Temp: Relation-Aware Temporal Representation Learning for Temporal Knowledge Graph Completion. In *Findings of the Association for Computational Linguistics: EMNLP 2023* (pp. 258-269).

[3] **Wang, K.**, Han, C. and Poon, J., 2022. InducT-GCN: Inductive Graph Convolutional Networks for Text Classification. In *26TH International Conference on Pattern Recognition*.

[4] **Wang, K.**, Han, C., Long, S. and Poon, J., 2022. ME-GCN: Multi-dimensional Edge-Embedded Graph Convolutional Networks for Semi-supervised Text Classification. In *ICLR 2022 Workshop on Deep Learning on Graphs for Natural Language Processing*.

[5] **Wang, K.**, Lu, D., Han, C., Long, S. and Poon, J., 2020. Detect All Abuse! Toward Universal Abusive Language Detection Models. In *Proceedings of the 28th International Conference on Computational Linguistics* (pp. 6366-6376).

- [6] Han, C., Yuan, Z., **Wang, K.**, Long, S. and Poon, J., 2022. Understanding Graph Convolutional Networks for Text Classification. In *Deep Learning for Graphs at AAAI Conference on Artificial Intelligence 2022*.
- [7] Weld, H., Huang, G., Lee, J., Zhang, T., **Wang, K.**, Guo, X., Long, S., Poon, J. and Han, C., 2021. CONDA: a CONtextual Dual-Annotated dataset for in-game toxicity understanding and detection. In *Findings of the Association for Computational Linguistics: ACL-IJCNLP 2021* (pp. 2406–2416).
- [8] Han, C., Long, S., Luo, S., **Wang, K.** and Poon, J., 2020. VICTR: Visual Information Captured Text Representation for Text-to-Vision Multimodal Tasks. In *Proceedings of the 28th International Conference on Computational Linguistics* (pp. 3107-3117).

## Competitions

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- Fake News Detection: KDD 2020 challenge, fuse BERT and TextGCN, public leaderboard 1/19, private leaderboard 5/19.
- NSW Crime Data Analytics Competition: Analyze the data with Tableau and write reports, Champion.

## Academic Service

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- Leaderboard Chair of the AJCAI 2022 workshop on Toxic Language Detection.
- Student Volunteer in the 35th Australasian Joint Conference on Artificial Intelligence (AJCAI 2022).
- Reviewer of AAAI, COLING

## Other Information

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- Hobbies: Games (Steam, Switch), Music (pop, rap, band)
- Self-evaluation: Self-Study, Working under pressure, Communication skills, Optimistic, Leadership