JUNJIE WU

Tel: (+86)-18902384735   Email: junjie.wu@connect.ust.hk   Website: https://wujunjie1998.github.io

EDUCATION

- **Hong Kong University of Science and Technology** *Sep 2020 – Dec 2025*
  Ph.D. in Artificial Intelligence   Advised by **Prof. Dit-Yan Yeung**

- **Sun Yat-sen University, Guangzhou, China** *Sep 2016 – Jun 2020*
  Bachelor in Statistics, School of Mathematics, Major GPA: 3.8/4.0
  (Second-class, Third-class Scholarship of Sun Yat-sen University, 2016-2017, 2017-2018)

EXPERIENCES

- **GenAI, Meta** *Jun 2025 – Jan 2026*
  Research Scientist Intern   Advised by **Kaitai Zhang**
  Overview: *Deploying an unified MLLM-as-a-Judge framework with enhanced post-training techniques for advertisement generation.*
- **Yale NLP Lab, Yale University** *Sep 2024 – Feb 2025*
  Visiting Ph.D. Student   Advised by **Prof. Arman Cohan**
  Overview: *Investigating and enhancing the long context understanding capability of large language models.*
- **Pattern Recognition Center, WeChat AI, Tencent** *May 2024 – May 2025*
  Research Intern   Advised by **Mo Yu, Lemao Liu**
  Overview: *Investigating and enhancing the reasoning capabilities, intelligence, and AGI level of large language models. Training improved embedding models for information retrieval and retrieval-augmented generation (RAG).*
- **Tencent AI Lab** *Jul 2021 – Jan 2024*
  Research Intern   Advised by **Lemao Liu, Wei Bi**
  Overview: *Investigating and enhancing the robustness of machine translation systems.*
- **CoAI Lab, Tsinghua University** *Oct 2019 – Aug 2020*
  Research Intern   Advised by **Prof. Minlie Huang**
  Overview: *Tracking and controlling topic transition in document-grounded dialog system.*
- **Blablablab, University of Michigan** *Jul 2019 – Jun 2020*
  Research Intern   Advised by **Prof. David Jurgens**
  Overview: *Predicting prosocial (defined by many metrics like healthy, supportive, politeness) outcomes in online conversations from a large-scale Reddit dataset.*
- **NGN Lab, Tsinghua University** *Jul 2018 – Aug 2018, Jan 2019 – May 2019*
  Research Intern   Advised by **Prof. Yongfeng Huang**
  Overview: *English and Chinese text emotion analysis and classification.*

PREPRINTS (*: EQUAL CONTRIBUTION.)

1. SitEmb-v1.5: Improved Context-Aware Dense Retrieval for Semantic Association and Long Story Comprehension
   ***Junjie Wu**, Jiangnan Li, Yuqing Li, Lemao Liu, Liyan Xu, Jiwei Li, Dit-Yan Yeung, Jie Zhou, Mo Yu*
   - Introduce the first situated embedding model designed to incorporate a chunk's contextual information directly into its embedding, enabling a deeper understanding of the chunk itself.

2. Mindscape-Aware Retrieval Augmented Generation for Improved Long Context Understanding
   *Yuqing Li, Jiangnan Li, Zheng Lin, Ziyan Zhou, **Junjie Wu**, Weiping Wang, Jie Zhou, Mo Yu*
   - Propose MiA-RAG, a mindscape-aware RAG framework that injects global semantic context into both retrieval and generation, significantly improving long-context and bilingual evidence-based reasoning.

3. SCAT: Robust Self-supervised Contrastive Learning via Adversarial Training for Text Classification
   ***Junjie Wu**, Dit-Yan Yeung*

- Propose a novel contrastive learning-based approach to enhance the robustness of NLP classification models against various textual adversarial attacks.

ACCEPTED PAPERS (*: EQUAL CONTRIBUTION.)

1. [**ACL 2025**] Ref-Long: Benchmarking the Long-context Referencing Capability of Long-context Language Models
   Junjie Wu*, Gefei Gu*, Yanan Zheng, Dit-Yan Yeung, Arman Cohan
   - Introduce Ref-Long, a long-context benchmark that systematically evaluates the long-context referencing capability of LCLMs, which leads to several findings through experimenting on it.

2. [**NAACL 2025, Oral**] Understanding LLMs' Fluid Intelligence Deficiency: An Analysis of the ARC Task
   Junjie Wu, Mo Yu, Lemao Liu, Dit-Yan Yeung, Jie Zhou
   - Systematically investigate the challenges LLMs face on inductive reasoning tasks through a series of experiments, and conclude many findings that could facilitate future works.

3. [**NAACL 2025, Oral**] The Stochastic Parrot on LLM's Shoulder: A Summative Assessment of Physical Concept Understanding
   Mo Yu*, Lemao Liu*, Junjie Wu*, Tsz Ting Chung*, Shunchi Zhang*, Jiangnan Li, Dit-Yan Yeung, Jie Zhou
   - Introduce a novel physical concept understanding task called PhysiCo, revealing that the SOTA LLMs exhibit a significant gap compared to humans, showing evidence of the Stochastic Parrot phenomenon in these LLMs.

4. [**TMLR 2025**] Unified Triplet-Level Hallucination Evaluation for Large Vision-Language Models
   Junjie Wu*, Tsz Ting Chung*, Kai Chen*, Dit-Yan Yeung
   - Introduce a new framework to evaluate LVLMs' hallucination on triplet-level, with a benchmark dataset for evaluation and a mitigation method based on the paper's findings.

5. [**ICASSP 2024**] Rethinking Targeted Adversarial Attacks for Neural Machine Translation
   Junjie Wu, Lemao Liu, Wei Bi, Dit-Yan Yeung
   - Point out a serious issue in current NMT targeted adversarial attacks, then propose a new setting to remedy this issue and a novel targeted adversarial attack method that outperforms previous methods.

6. [**EMNLP 2023**] Towards General Error Diagnosis via Behavioral Testing in Machine Translation
   Junjie Wu, Lemao Liu, Dit-Yan Yeung
   - Design a novel bilingual translation pair generation based behavioral testing approach for machine translation systems, which could provide comprehensive and faithful behavioral testing results for general error diagnosis.

   (Presented at the GenBench workshop at EMNLP 2023.)

7. [**WWW 2021**] Conversations Gone Alright: Quantifying and Predicting Prosocial Outcomes in Online Conversations
   Jiajun Bao*, Junjie Wu*, Yiming Zhang*, Eshwar Chandrasekharan, David Jurgens
   - Identify factors that are related to the prosocial outcomes in online conversations, then design a model to predict whether a conversation will lead to prosocial outcomes or not.

8. [**NAACL 2021, DeeLIO**] Augmenting Topic-Aware Knowledge-Grounded Conversations with Dynamic Built Knowledge Graphs
   Junjie Wu, Hao Zhou
   - Propose a method to dynamically build knowledge graphs from the conversation history, which helps to enhance the quality of the generated dialogs.

ACADEMIC SERVICES

Programme Committee: ACL (2023)
Reviewer: NeurIPS (2024, 2025), ICLR (2025, 2026), ICML (2025), ACL Rolling Review (ARR)

TECHNICAL SKILLS AND OTHERS

Programming: Python, Pytorch, Matlab, R, Latex

TOEFL: 105   **GRE**: V155 Q170 AW4.0

Miscs: I like playing basketball, and I am the team member of the school basketball team from 2016-now.