

# JUNJIE WU

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## EDUCATION

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- **Hong Kong University of Science and Technology** *September 2020 - Present*  
Ph.D. in Artificial Intelligence Advised by **Prof. Dit-Yan Yeung**
  - **Sun Yat-sen University, Guangzhou, China** *September 2016 - June 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

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- **GenAI, Meta** *June 2025 - Present*  
*Research Scientist Intern* Advised by **Kaitai Zhang**  
Overview: *Investigating the application of a unified MLLM-as-a-Judge framework in commercial advertisement generation.*
  - **Yale NLP Lab, Yale University** *Sept 2024 - Feb 2025*  
*Visiting Ph.D. Student* Advised by **Prof. Arman Cohan**  
Overview: *Investigating 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 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** *July 2021 - Jan 2024*  
*Research Intern* Advised by **Lemao Liu, Wei Bi**  
Overview: *Investigating 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** *July 2019 - June 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** *July 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.)

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1. Situated Embedding Models for Context-Aware Dense Retrieval  
*Junjie Wu, Mo Yu, Lemao Liu, Liyan Xu, Jiangnan Li, Jiwei Li, Dit-Yan Yeung, Jie Zhou*
    - Introduce the first situated embedding model designed to incorporate a chunks contextual information directly into its embedding, enabling a deeper understanding of the chunk itself.
  2. 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.)

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1. Ref-Long: Benchmarking the Long-context Referencing Capability of Long-context Language Models (**ACL 2025**)  
*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. Understanding LLMs Fluid Intelligence Deficiency: An Analysis of the ARC Task (**NAACL 2025 Oral**)  
*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. The Stochastic Parrot on LLM’s Shoulder: A Summative Assessment of Physical Concept Understanding (**NAACL 2025 Oral**)  
*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. Unified Triplet-Level Hallucination Evaluation for Large Vision-Language Models (**TMLR, Accept with minor revision**)  
*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. Rethinking Targeted Adversarial Attacks for Neural Machine Translation (**ICASSP 2024**)  
*Junjie Wu, Lemao Liu, Wei Bi, Dit-Yan Yeung*
  - Point out a serious issue in current NMT targeted adversarial attacks, then propose a new attack setting to remedy this issue and a novel targeted adversarial attack method that outperforms previous methods.
- 6. Towards General Error Diagnosis via Behavioral Testing in Machine Translation (**EMNLP 2023**)  
*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. Conversations Gone Alright: Quantifying and Predicting Prosocial Outcomes in Online Conversations (**WWW 2021**)  
*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. Augmenting Topic-Aware Knowledge-Grounded Conversations with Dynamic Built Knowledge Graphs (**DeeLIO at NAACL 2021**)  
*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

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**Programme Committee:** ACL (2023)

**Reviewer:** NeurIPS (2024, 2025), ICLR (2025), ICML (2025), ACL Rolling Review (ARR)

## TECHNICAL SKILLS AND OTHERS

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**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.