Junyi Li

Ph.D. in Artificial Intelligence – Renmin University of China – Beijing, China

lijunyi@ruc.edu.cn www.lijunyi.tech turboLJY

Education

Renmin University of China **2020 - present**
- Ph.D. Student, Gaoling School of Artificial Intelligence
- Advisor: Prof. Wayne Xin Zhao
- Jointly supervised by Prof. Jian-Yun Nie, University of Montreal

Renmin University of China **2018 - 2020**
- M.Eng. in School of Information
- Advisor: Prof. Wayne Xin Zhao

Renmin University of China **2014 - 2018**
- B.Eng. in School of Information
- Advisor: Prof. Wayne Xin Zhao

Research Interests

My research focuses on the area of natural language processing, with an emphasis on text generation and their applications such as question answering, dialogue system, and summarization. At the current stage, I am specifically interested in pre-trained language models.

Honors and Awards

- **National Scholarship for Graduate Student** (top 2% students), Ministry of Education of P.R. China, 2021.
- **National Scholarship for Graduate Student** (top 2% students), Ministry of Education of P.R. China, 2019.
- **Second Prize** in Beijing Contest District of China Undergraduate Mathematical Contest in Modeling, 2016.

Publications

ElitePLM: An Empirical Study on General Language Ability Evaluation of Pretrained Language Models
- **Junyi Li**, Tianyi Tang, Zheng Gong, Lixin Yang, Zhuohao Yu, Zhipeng Chen, Jingyuan Wang, Wayne Xin Zhao and Ji-Rong Wen
- *In 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistic.* ***NAACL 2022***

Learning to Transfer Prompts for Text Generation
- **Junyi Li**, Tianyi Tang, Jian-Yun Nie, Ji-Rong Wen and Wayne Xin Zhao
- *In 2022 Annual Conference of the North American Chapter of the Association for Computational Linguistic.* ***NAACL 2022***

A Survey of Vision-Language Pre-Trained Models
- Yifan Du, Zikang Liu, **Junyi Li** and Wayne Xin Zhao
- *In the 31th International Joint Conference on Artificial Intelligence.* ***IJCAI 2022 Survey***.

TextBox: A Unified, Modularized, and Extensible Framework for Text Generation
- **Junyi Li**, Tianyi Tang, Gaole He, Jinhao Jiang, Xiaoxuan Hu, Puzhao Xie, Zhipeng Chen, Zhuohao Yu, Wayne Xin Zhao and Ji-Rong Wen.
- *In the 59th Annual Meeting of the Association for Computational Linguistic.* ***ACL 2021****, System Demonstration.*

Few-shot Knowledge Graph-to-Text Generation with Pretrained Language Models

- **Junyi Li**, Tianyi Tang, Wayne Xin Zhao, Zhicheng Wei, Nicholas Jing Yuan and Ji-Rong Wen.
- *In Findings of the 59th Annual Meeting of the Association for Computational Linguistic.* ***ACL 2021***.

Pretrained Language Model for Text Generation: A Survey

- **Junyi Li**, Tianyi Tang, Wayne Xin Zhao and Ji-Rong Wen.
- *In the 30th International Joint Conference on Artificial Intelligence.* ***IJCAI 2021 Survey***.

Knowledge-based Review Generation by Coherence Enhanced Text Planning

- **Junyi Li**, Wayne Xin Zhao, Zhicheng Wei, Nicholas Jing Yuan and Ji-Rong Wen.
- *In the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval.* ***SIGIR 2021***.

Knowledge-Enhanced Personalized Review Generation with Capsule Graph Neural Network

- **Junyi Li**, Siqing Li, Wayne Xin Zhao, Gaole He, Zhicheng Wei, Nicholas Jing Yuan and Ji-Rong Wen.
- *In the 29th ACM International Conference on Information and Knowledge Management.* ***CIKM 2020***.

Mining Implicit Entity Preference from User-Item Interaction Data for Knowledge Graph Completion via Adversarial Learning

- Gaole He, **Junyi Li**, Wayne Xin Zhao, Peiju Liu and Ji-Rong Wen.
- *In International World Wide Web.* ***WWW 2020***.

Generating Long and Informative Reviews with Aspect-Aware Coarse-to-Fine Decoding

- **Junyi Li**, Wayne Xin Zhao, Ji-Rong Wen and Yang Song.
- *In the 57th Annual Meeting of the Association for Computational Linguistic.* ***ACL 2019***.

Open Source Projects

TextBox: An Open-Source Text Generation Library

- **Unified and Modularized**: TextBox is built upon PyTorch and designed to be highly modularized by decoupling diverse models into a set of highly reusable modules.
- **Comprehensive Models, Datasets, and Tasks**: TextBox covers two main generation tasks including unconditional generation and conditional generation, and supports 21 baseline models within four categories including VAE, GAN, Pretrained Language Models and Seq2Seq models.
- **Extensible and Flexible**: TextBox provides convenient interfaces of various common functions and modules such as Transformer, Attention, and Discriminator.
- **Easy to Get Started**: TextBox provides flexible configuration files, which allows green hands to run experiments without modifying source codes.

Academic Services

- Reviewer:
  - Journal: TALLIP
  - Conference: AAAI 2021-22, IJCAI 2021-22, KDD 2021.
- Chair: CSSNLP 2020 (Co-Chair)