

RENHAO LI

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EDUCATION

Sichuan University, Chengdu, China 09/2020 – 06/2023 (expected)

Master in Electronic Information, School of Computer Science, GPA: 3.40 / 4

Sichuan University, Chengdu, China 09/2016 – 06/2020

Bachelor in Computer Science and Technology, Computational Finance Track, GPA: 3.39 / 4, CET6: 567

PUBLICATIONS

- **Renhao Li**, Lei Duan, Guicai Xie, Shan Xiao and Weipeng Jiang, “AdCSE: An Adversarial Method for Contrastive Learning of Sentence Embeddings,” in **DASFAA’22 (Research Track)**, [Link], [Code]
In this work, a method named *AdCSE* was proposed for unsupervised sentence embedding. We demonstrated that high-quality negative representations introduced by adversarial training help to learn expressive sentence embeddings together with contrastive learning. Fine-grained analysis and experiments on several STS tasks further validated its superiority.
- Zhengshan Guo, Jie Zuo, Lei Duan, **Renhao Li**, Chengxin He, Yingjie Xiao and Peiyan Wang, “A Generative Adversarial Negative Sampling Method for Knowledge Hypergraph Link Prediction,” in **Journal of Computer Research and Development’22**, [Link]
- Shan Xiao, Lei Duan, Guicai Xie, **Renhao Li**, Zihao Chen, Geng Deng and Jyrki Nummenmaa, “HMNet: Hybrid Matching Network for Few-Shot Link Prediction,” in **DASFAA’21 (Research Track)**, [Link]

EXPERIENCE

DELI Artificial Intelligence & Law Lab,

Shenzhen Institutes of Advanced Technology (SIAT) Shenzhen, China

Research Assistant, Advisor: Prof. Min Yang 03/2022 – 08/2022

- **Research on knowledge base question answering (KBQA) task:** Found a problem of language bias within KBQA which significantly reduce the robustness of the model. To alleviate this issue and capture the decisive information guiding question answering under reasoning path signal, we are trying to introduce contrast objectives into the model for better text alignment from different perspectives (such as question-contexted answers, contexted answer-questions and question-reasoning paths).

Knowledge Discovery & Data Engineering (KDDE) Group, Sichuan University Chengdu, China

Group Member, Advisor: Prof. Lei Duan 09/2020 – 08/2022

- **Research on medical KG construction:** For KG construction, investigated unstructured text knowledge extraction methods with scarce manual annotation. Constructed specific domain ontologies to provide users with a better information retrieval experience.
- **Project on data collection and management of material data:** Tried to solve the problem of semi-automatic construction knowledge graph for material data with GDB (e.g. Neo4j). While accelerating the intelligent query process by introducing structured templates.

SELECTED AWARDS

- Scholarship of Zili Zhidong (2019), First Prize Scholarship of SCU (2020)
- Meritorious Winner of MCM/ICM Contest (2018), First Prize of APMCM Contest (2019)

SKILLS

Programming Languages: Python, Bash

Tools and Frameworks: PyTorch, L^AT_EX, Git