

YUXUAN LU

✉ luyuxuanleo@gmail.com · in yuxuan-lu · 🌐 https://yuxuan.lu · 📄 📁 📧

🎓 EDUCATION

Beijing University of Technology, Beijing, China

Sep. 2019 – Present

Bachelor of Engineering in Computer Science and Technology, GPA 3.84/4.00 (90.07/100) , Junior year GPA 4.00

- Principle of Compiling 96 | Formal Language 96 | Principle of Operating System 95 | Operations Research 97 | Probability Theory 97 | Design and Analysis of Algorithms 99
- **TA in multiple major courses** (Course Design of System Software, Data Structure and Algorithm, etc.)
- **Won serval scholarships** at school and college levels
- **Lead our Programming Competition Team and Linux User Group**(700+ students participate in our activities every year)

♡ HONORS AND AWARDS

Bronze Medal , 2021 ICPC Asia Regional Contest Shenyang Site	2021
Bronze Medal , 2020 ICPC Asia Regional Contest Yinchuan Site	2021
Global Rank 85(Top 3.5%) , IEEEExtreme 15.0	2021
Bronze Medal , 2019 ICPC Asia Regional Contest Yinchuan Site	2020
Global Rank 42(Top 2%) , IEEEExtreme 14.0	2020

📖 PUBLICATIONS

- **Yuxuan Lu**, Jingya Yan, Zhixuan Qi, Zhongzheng Ge, and Yongping Du, Contextual embedding and model weighting by fusing domain knowledge on Biomedical Question Answering (*ACM-BCB 2022*, with *oral presentation*, arxiv: 2206.12866)
- Yongping Du, Jingya Yan, **Yuxuan Lu**, Yiliang Zhao, Xingnan Jin, Improving Biomedical Question Answering by Data Augmentation and Model Weighting (*IEEE/ACM Transactions on Computational Biology and Bioinformatics*, IF 3.71)
- Yongping Du, Jingya Yan, Yiliang Zhao, **Yuxuan Lu**, and Xingnan Jin, Dual Model Weighting Strategy and Data Augmentation in Biomedical Question Answering (*IEEE BIBM 2021*)
- Hao Chen, Lun Du, **Yuxuan Lu**, Qiang Fu, Xu Chen, Shi Han, Yanbin Kang, Guangming Lu and Zi Li, Heterogeneous knowledge enhanced Person-Job Fit (*WWW 2023 (CCF A)*, In review)
- Yongping Du, Yiliang Zhao, Jingya Yan, **Yuxuan Lu**, Wenyang Guo, Impacts of Multi-task Adversarial Training on Machine Reading Comprehension Model (*IEEE/ACM Transactions on Audio, Speech and Language Processing*, In review)

✍ RESEARCH INTERN EXPERIENCE

Microsoft Research Asia & LinkedIn Beijing, China

Jul. 2022 – Present

Machine Learning Researcher Manager: Guangming Lu (Manager) / Lun Du (Sr. Researcher)

Participated in a joint program between Microsoft Research Asia and LinkedIn, to discover AI applications driven by LinkedIn's large-scale high-quality production data

- Contextual Summary for User Profile Regarding Job Description (main contributor)

- Conducted contextual summarization research on LinkedIn data, including collecting data, designing and evaluating the method, and designing experiments
- Generate a summary for each candidate profile regarding each job description to help HR to know the candidates faster
- Heterogeneous Knowledge-based Person-Job Fit
 - Conducted Person-Job Fit research using heterogeneous GNN pre-training
 - Participated in method designing; responsible for collecting data and running baseline experiments; our paper is submitted to WWW 2023

Tsinghua NLP Lab (THUNLP)

Dec. 2021 – Jun. 2022

Intern Research Assistant Supervisor: Prof. Zhiyuan Liu, Dr. Huadong Wang

- Big Model for Knowledge Graph (BMKG)
 - Developed a toolkit to help **train large Knowledge Embedding models on large KGs and run various downstream tasks**
 - Supports **4 levels of parallel** during the training process of **translation-based or context-based** Knowledge Embedding models
 - Designed the framework and wrote code that needed high performance
- Design / Develop / Maintain multiple demos for NLP models
 - Designed and maintained multiple demos for NLP models to show their performance to non-specialists

Machine Reading Comprehension

Dec. 2020 – Present

Research Assistant Supervisor: Prof. Yongping Du

Supported by a **National-level undergraduate research program**

- Conducted Machine Reading Comprehension research in Biomedical Domain as the project leader, including designing the model, conducting experiments and writing the paper, which was **published in ACM BCB 2022**
- Designed a **contextual embedding** and **model weighting** strategy to **learn domain knowledge** in Biomedical Question Answering task, which **outformed SOTA models by a large margin**

PROJECT EXPERIENCE

Course Grading and Feedback System based on Fault-Cause analysis Apr. 2020 – Jun. 2022

Supported by a **National-level undergraduate research program**

- Worked as the project leader, who was responsible for including designing the system architecture, code reviewing, and full stack developing
- Designed an **autograding system** that can help daily teaching and **give accurate scores and feedback** based our **automatic fault-cause clustering method**; the system includes 60k+ lines of code, and 72% of them are covered by unit tests
- Achieved the performance that is capable of handling **500+ QPS** while other similar systems can only do 20+
- **Found a bug in the go compiler** (see golang/go#44614) Check <https://yuxuan.lu> to learn more

MISCELLANEOUS

- Programming: Multilingual. Fluent in C++, Rust, Python, Go, JavaScript, etc.
- Blog (In Chinese): <http://leoleoasd.me>
- Personal Site: <http://yuxuan.lu>
- Languages: English - Fluent (TOEFL 105), Mandarin - Native speaker