

YUTING NING

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EDUCATION

- Master in Computer Science**, University of Science and Technology of China June, 2024 (expected)
 Research Interest: Data Mining, Natural Language Processing, Intelligent Education
 Advisor: [Enhong Chen](#)
 GPA: 4.11 / 4.3
- Bachelor in Computer Science**, University of Science and Technology of China June, 2021
 Hua Xia Talent Program in Computer Science and Technology
 GPA: 3.93 / 4.3

RESEARCH EXPERIENCE

- Research Assistant**, University of Science and Technology of China September, 2021 - Present
[BDAA-BASE Group](#)
 Hefei, China
 Advisor: [Enhong Chen](#)
- Research on natural language processing and intelligent education
 - Design a contrastive pre-training method for holistically understanding mathematical questions (AAAI'2023)
- Research Intern**, Microsoft Research Asia July, 2020 - December, 2020
 Social Computing Group
 Beijing, China
 Mentor: [Fangzhao Wu](#) and [Xing Xie](#)
- Mainly research on news recommendation and advertisement recommendation
 - Implement many advanced news recommendation methods

PUBLICATIONS

1. **Yuting Ning**, Zhenya Huang, Enhong Chen, Shiwei Tong, Zheng Gong, Shijin Wang. Towards a Holistic Understanding of Mathematical Questions with Contrastive Pre-training. The 37th AAAI Conference on Artificial Intelligence (AAAI), 2023. [\[PDF\]](#) [\[Code\]](#)
2. **Yuting Ning**, Jiayu Liu, Longhu Qin, Tong Xiao, Shangzi Xue, Zhenya Huang, Qi Liu, Enhong Chen, Jinze Wu. A Novel Approach for Auto-Formulation of Optimization Problems. arXiv preprint, 2023. [\[PDF\]](#) [\[Code\]](#)
3. Qi Liu, Jinze Wu, Hao Wang, Zhenya Huang, **Yuting Ning**, Ming Chen, Enhong Chen. Federated User Modeling from Hierarchical Information. ACM Transactions on Information Systems (TOIS). 2022, accepted. [\[PDF\]](#)
4. Jinze Wu, Qi Liu, Zhenya Huang, **Yuting Ning**, Hao Wang, Enhong Chen, Jinfeng Yi and Bowen Zhou, Hierarchical Personalized Federated Learning for User Modeling, The 30th International World Wide Web Conference (WWW), 2021. [\[PDF\]](#)
5. **Yuting Ning**, Ye Liu, Zhenya Huang, Haoyang Bi, Qi Liu, Enhong Chen, Dan Zhang, Stable and Diverse: A Unified Approach for Computerized Adaptive Testing, 2021 IEEE 7th International Conference on Cloud Computing and Intelligent Systems (CCIS), 2021. [\[PDF\]](#)

COMPETITIONS

- NeurIPS Competition: Natural Language for Optimizing Modeling (NL4Opt)** [\[Web\]](#) 2022
 3rd place in subtask2, 4th place in subtask1
- Kaggle: Feedback Prize - Evaluating Student Writing** [\[Web\]](#) 2022
 Silver Prize, top5% in 2058 teams
- MOOCCube: Predicting Student Performances** 2021
 2nd place

PROJECTS

EduNLP [\[Code\]](#), [\[Doc\]](#) 2021.09 - Present

EduNLP is a library for advanced Natural Language Processing towards multi-modal educational items.

- Work as a team leader and organize the project
- Implement many educational question representation models (e.g., QuesNet)
- Build the EduNLP modelhub for pre-trained model management
- Implement several downstream tasks with pre-trained models (e.g., similarity prediction)

LUNA [\[Web\]](#) 2021.02 - Present

Intelligent Educational Knowledge Graph (LUNA) aims to analyze massive educational resources deeply and provide intelligent education services.

- Implement question search service
- Introduce the pre-trained question representation models to boost question-based downstream tasks

News Recommendation [\[Code\(Keras\)\]](#), [\[Code\(PyTorch\)\]](#) 2020.06 - 2020.07

Implement several news recommendation methods with **MIND dataset** (e.g., NAML) in both PyTorch and Keras.

TEACHING EXPERIENCE

Machine Learning and Knowledge Discovery September, 2022 - February, 2023

Teaching assistant, University of Science and Technology of China

HONORS & AWARDS

First Prize Academic Scholarship, University of Science and Technology of China 2022, 2023

Top 5% Outstanding Graduates of USTC, University of Science and Technology of China 2021

Outstanding Graduates of Anhui Province, Education Department of Anhui Province 2021

Baosteel Outstanding Student Scholarship (1/1800+ in USTC), Baosteel Education Fund 2020

National Scholarship, Ministry of Education of the People's Republic of China 2019

Gold Award for Outstanding Student Scholarship, University of Science and Technology of China 2018

SKILLS

Programming Languages Python, C, SQL

Frameworks Pytorch, Keras, Flask

Tools \LaTeX , Git

TOEFL 102 (Reading: 28; Listening: 29; Speaking: 21; Writing: 24)