

# 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](#)  
 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

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**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

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

Teaching assistant, University of Science and Technology of China

## HONORS & AWARDS

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**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

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**Programming Languages**      Python, C, SQL

**Frameworks**      Pytorch, Keras, Flask

**Tools**       $\LaTeX$ , Git

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