

XINLEI PEI

 Email ·  Github ·  Homepage ·  Chinese

EDUCATION



Shandong University of Finance and Economics, Jinan, China 2020.09 – 2023.06

M.S. in Computer Applied Technology (Supervisor: Prof. [Zheng Liu](#), GPA: 3.7/4.0, Ranking: 1/28)












Shandong University of Finance and Economics, Jinan, China 2016.09 – 2020.06

B.S. in Computer Science and Technology (GPA: 3.4/4.0, Ranking: Top 15%)

RESEARCH INTERESTS

Interested in deep learning, information retrieval, data mining, multimodal large language models, etc. Focus on cross-modal retrieval (e.g., image-text matching). You can check my publications with  [Google Scholar](#) or  [Semantic Scholar](#).

PUBLICATIONS

- **Xinlei Pei**, Zheng Liu, Shanshan Gao, Yijun Su. *Complementarity is the king: Multi-modal and multi-grained hierarchical semantic enhancement network for cross-modal retrieval*. *Expert Systems with Applications*, 2023, 216: 119415.
✧ JCR: [Q1](#) ✧ IF: [8.6](#) ✧ [CCF-C](#)  [Link](#)  [PDF](#)  [Code](#)
- Zheng Liu, **Xinlei Pei**, Shanshan Gao, Changhao Li, Jingyao Wang, Junhao Xu. *Perceive, Reason, and Align: Context-guided cross-modal correlation learning for image-text retrieval*. *Applied Soft Computing*, 2024, 154: 111395.
✧ JCR: [Q1](#) ✧ IF: [8.7](#)  [Link](#)  [PDF](#)
- Junhao Xu, Zheng Liu, **Xinlei Pei**, Shuhuai Wang, Shanshan Gao. *FB-Net: Dual-Branch Foreground-Background Fusion Network With Multi-Scale Semantic Scanning for Image-Text Retrieval*. *IEEE Access*, 2023, 11: 36516-36537.
✧ JCR: [Q2](#) ✧ IF: 3.9  [Link](#)  [PDF](#)
- Shuhuai Wang, Zheng Liu, **Xinlei Pei**, Junhao Xu. *HAAN: Learning a Hierarchical Adaptive Alignment Network for Image-Text Retrieval*. *Sensors*, 2023, 23(5): 2559.
✧ JCR: [Q2](#) ✧ IF: 3.9  [Link](#)  [PDF](#)
- Zheng Liu, Shaojing Yuan, **Xinlei Pei**, Shanshan Gao, Huijian Han. *Cross-media retrieval via fusing multi-modality and multi-grained data*. *Scientia Iranica*, 2023, 30(5): 1645-1669.
✧ JCR: [Q2](#) ✧ IF: 1.4  [Link](#)  [PDF](#)

HONORS AND AWARDS

Honorary Titles

- **Excellent Graduate Student** of Shandong University of Finance and Economics. (**Top 5%**) 2023.06
- **Excellent Master Dissertation Award** of Shandong University of Finance and Economics. (**Top 5%**) 2023.06
- **Excellent Individual in Postgraduate Research Achievements** of Shandong University of Finance and Economics. (**Top 1%**) 2022.11
- Excellent Postgraduate Student of Shandong University of Finance and Economics. (**Top 5%**) 2021.11
- Excellent Bachelor Dissertation Award of Shandong University of Finance and Economics. (**Top 5%**) 2020.06

Competition Awards

- **1st Prize** of *The 6th “Kunpeng Cup” Shandong New Energy · Software Innovation and Entrepreneurship Competition*, Department of Industry and Information Technology of Shandong Province, China. (**3rd member**) 2022.11
- **1st Prize** of *The 13th “Challenge Cup” Shandong Provincial Undergraduate Entrepreneurship Plan Competition*, Shandong Association for Science & Technology, China. (**2nd member**) 2022.10
- **2nd Prize** of *“Pu Yi Award” The 6th National College Student Translation Competition*, Oversea English, China. (**Solo**) 2022.06
- **1st Prize** of *The 15th “SPSSPRO Cup” Mathematics China Mathematical Modeling Network Challenge*, Inner Mongolia Mathematical Society, China. (**Leader**) 2022.01
- **3rd Prize** of *“Huawei Cup” 18th China Postgraduate Mathematical Modeling Contest*, Association of Chinese Graduate Education, China. (**2nd member**) 2021.12
- **1st Prize** of *National Undergraduate Mathematical Modeling Contest (Shandong Division)*, China Society for Industrial and Applied Mathematics, China. (**Leader**) 2019.10

Scholarships & Fellowships

- **Excellent Academic Achievement Scholarship** of Shandong University of Finance and Economics. (**Top 1%**) 2023.05
- **Graduate “Lu Xin” Research Scholarship** of Shandong University of Finance and Economics. (**Top 1%**) 2023.03
- **1st Prize** Scholarship of Shandong University of Finance and Economics. (**Top 5%**) 2022.11
- **1st Prize** Scholarship of Shandong University of Finance and Economics. (**Top 5%**) 2021.11
- **2nd Prize** Scholarship of Shandong University of Finance and Economics. 2020.11
- **2nd Prize** Scholarship of Shandong University of Finance and Economics, 4 Times. 2016-2019

SKILLS

Programming Languages

- Python, MATLAB, Shell/Bash. (**Proficient**)
- Java, SQL, JavaScript, HTML/CSS. (Know all about)
- C/C++, Lua, Ruby. (Understand)

Frameworks & Tools

- PyTorch, PaddlePaddle, Pandas, Scikit-learn, Keras, Jupyter Lab/Notebook, Git. (**Proficient**)
- Huggingface-transformers, LangChain, TensorFlow, Mysql. (Know all about)
- Hadoop, Kafka, Zookeeper, Redis, SpringBoot. (Understand)

Others

- Languages: CET-6
- \LaTeX , Markdown, PowerPoint, Excel, Visio