

# Jie Wang

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**INTERESTS** AI Agent & LLMs: Reinforcement Learning, Personalization, Multi-modal Recommendation&IR

**EDUCATION**

<b>University of Glasgow</b> , Glasgow, UK <i>Ph.D.</i> , Computing Science Supervisor: Prof Joemon M. Jose	Oct 2021 - Dec 2025
<b>Xi'an JiaoTong University</b> , Xi'an, China <i>M.S.</i> , Software Engineering	Sep 2018 - June 2021
<b>Dalian University of Technology</b> , Dalian, China <i>B.S.</i> , Software Engineering	Sep 2014 - June 2018

**EXPERIENCE**

<b>Amazon</b> , Seattle, US Applied Scientist Intern; Project: Personalised Video Moment Recommendation <ul style="list-style-type: none"><li>Developed personalized video moments recommender systems via real-world customer-video moment interaction data from Amazon product videos; Both customer and video models leverage CLIP embeddings as the foundation for cold-start user adaptation; Conducted a comprehensive user study with 100 real customers, evaluating video moment recommender systems across 9 metrics.</li></ul>	Jul. 2025 - Oct. 2025
<b>University of Glasgow</b> , Glasgow, UK Teaching Assistant; Courses: Artificial Intelligence, Machine Learning, Web Science <ul style="list-style-type: none"><li>Supervised master thesis projects and delivered tutorials/labs for level M and H students, with responsibilities including coursework design, grading, and academic mentoring.</li></ul>	Dec. 2022 - Sep. 2024
<b>Tencent</b> , Shenzhen, China Research Intern; Project: Mixture-of-Modality Feedback for Transferable Recommender Systems <ul style="list-style-type: none"><li>Developed transferable large-scale recommender systems trained by 1 million user feedback on news from QQBrowser; Content is represented using multi-modal features: textual titles for news articles and visual thumbnails for videos; The model achieves effective cold-start recommendation performance on diverse domains, including deployment on Tencent News.</li></ul>	Dec. 2021 - May 2022

**MAIN HONORS**

- WSDM Travel Grant**, ACM Grant (2025)
- Excellent Graduate**, Xi'an JiaoTong University (2021)
- Postgrad Scholarship**, Xi'an JiaoTong University (2018-2020)
- Undergrad Scholarship**, Dalian University of Technology (2015-2017)

**RECENT PUBLICATIONS**

- Query Decomposition Filtering for Zero-shot Composed Video Retrieval*  
**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Yabin Wang, Joemon Jose  
Under Review
- PDiT-GIM: A Two-Stage Diffusion Framework for Personalized Preference Generation and Decoding*  
**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Joemon Jose  
Under Review
- Reinforcement Learning-based Recommender Systems with Large Language Models for State Reward and Action Modeling*  
**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Joemon Jose  
The 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2024, Full Paper)

*Sparks of Surprise: Multi-objective Recommendations with Hierarchical Decision Transformers for Diversity, Novelty, and Serendipity*

**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Xin Xin, Xuri Ge, Joemon Jose  
33rd ACM International Conference on Information and Knowledge Management (CIKM 2024, Full Paper)

*Large Language Model driven Policy Exploration for Recommender Systems*

**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Joemon Jose  
The 18th ACM International Conference on Web Search and Data Mining (WSDM 2025, Full paper)

*Beyond Accuracy: Decision Transformers for Reward-driven Multi-objective Recommendations*

**Jie Wang**, Alexandros Karatzoglou, Ioannis Arapakis, Joemon Jose, Xuri Ge  
IEEE Transactions on Knowledge and Data Engineering (TKDE)

*TransRec: Learning Transferable Recommendation from Mixture-of-Modality Feedback*

**Jie Wang**, Fajie Yuan, Mingyue Cheng, Joemon M. Jose, Chenyun Yu, Beibei Kong, Zhijin Wang, Bo Hu, Zang Li  
The 8th APWeb-WAIM joint international conference on Web and Big Data (APWebWAIM 2024, Full Paper)

*Empowering Legal Citation Recommendation via Efficient Instruction-Tuning of Pre-trained Language Models*

**Jie Wang**, Kanha Bansal, Ioannis Arapakis, Xuri Ge, Joemon M. Jose  
46th European Conference on Information Retrieval (ECIR 2024, Full Paper)

*IISAN: Efficiently Adapting Multimodal Representation for Sequential Recommendation with Decoupled PEFT*

Junchen Fu, Xuri Ge, Xin Xin, Alexandros Karatzoglou, Ioannis Arapakis, **Jie Wang**, Joemon M. Jose  
The 47th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2024, Full Paper)

*Capturing the Spectrum of Social Media Conflict: A Novel Multi-objective Classification Model*

Oliver Warke, Joemon M. Jose, Jan Breitsohl, **Jie Wang**  
The 10th ACM SIGIR / The 14th International Conference on the Theory of Information Retrieval (ICTIR 2024, Full Paper)

*3SHNet: Boosting Image-Sentence Retrieval via Visual Semantic-Spatial Self-Highlighting*

Xuri Ge, Songpei Xu, Fuhai Chen, **Jie Wang**, Guoxin Wang, Shan An, Joemon M. Jose  
Information Processing & Management (IP&M 2024)

*Exploring adapter-based transfer learning for recommender systems: Empirical studies and practical insights*

Junchen Fu, Fajie Yuan, Yu Song, Zheng Yuan, Mingyue Cheng, Shenghui Cheng, Jiaqi Zhang, **Jie Wang**, Yunzhu Pan  
The 17th ACM International Conference on Web Search and Data Mining (WSDM 2024, Full Paper)

*NineRec: A Benchmark Dataset Suite for Evaluating Transferable Recommendation*

Jiaqi Zhang, Yu Cheng, Yongxin Ni, Yunzhu Pan, Zheng Yuan, Junchen Fu, Youhua Li, **Jie Wang**, Fajie Yuan  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI 2024, Special Issue)

## TEACHING

*Master Thesis Supervision*(2023 -24)  
Teaching Assistant, University of Glasgow (2023 -24)

*COMPSCI2001 Introduction to Object-Oriented Programming, Level 2*  
Teaching Assistant, University of Glasgow (2023 -24)

*COMPSCI1018 Computing Science 1S - Computing Systems, Level 1*  
Teaching Assistant, University of Glasgow (2022 - 23; 2023 - 24)

*COMPSCI4077 Web Science, MSc Level*  
Teaching Assistant, University of Glasgow (2022 -23)

## **SERVICE**

**Reviewer:** WWW, SIGIR, CIKM, WSDM, PAMI, ICLR, AAAI et.al.

## **SKILLS**

**Main:** Python, Pytorch

**Languages:** English, Chinese