LEI LI 李磊

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◀ RESEARCH INTERESTS

Explainable Recommendation, Recommender Systems, Natural Language Processing, Bias & Fairness

EDUCATION

Hong Kong Baptist University (HKBU), Hong Kong, China

Aug. 2017 – Present

Ph.D. Candidate in Computer Science, expected Aug. 2022

Thesis: Natural Language Explanation for Recommendations and Beyond

Shenzhen University (SZU), Shenzhen, China

Sep. 2013 – Jun. 2017

B.Eng. in Computer Science & B.Sc. in Mathematics

* Selected by College of Computer Science and Software Engineering for a special program, where less than 30 students out of 60 successfully obtained the double degree

EXPERIENCES

Department of Computer Science (CSD), HKBU, Hong Kong, China

Aug. 2017 – Present

Ph.D. Student Advisor: Dr. Li Chen, Mentors: Dr. Yongfeng Zhang & Dr. Ruihai Dong

- Research on explainable recommendation
- Outcome:
 - Published 1 co-author paper on *User Survey on Explanation* at Frontiers in Big Data
 - Published 1 co-author paper on Visual Explanation Generation at ACL'22
 - Published 1 paper on Explanation Ranking at SIGIR'21 Resource
 - Published 3 papers on Natural Language Explanation Generation at WWW'20 Demo & CIKM'20 & ACL'21
 - Published 1 paper on Context-aware Explanation at JIIS
 - Published 1 paper on Context-aware Recommendation at ICDE'19 Workshop

Inspir.ai, Beijing, China

Jun. 2019 – Aug. 2019

Intern Mentor: Dr. Peng Peng

- Research on explaining the decision-making process of reinforcement learning (RL) agents
- Visualization of the replay data of a computer game StarCraft II

Big Data Institute, SZU, Shenzhen, China

Jul. 2016 – Aug. 2017

Undergraduate Research Assistant Advisor: Dr. Weike Pan

- Research on recommendation algorithms, especially collaborative filtering and matrix factorization
- Outcome: published one paper on Recommendation Algorithm at ICWS'18

Department of Computer Science, HKBU, Hong Kong, China

Mar. 2017 – Jun. 2017

Research Exchange Student Advisor: Dr. Li Chen

- Research on personality for recommender systems

Suishou Technology, Shenzhen, China

Aug. 2016 - Nov. 2016

Intern Advisor: Dr. Weike Pan

- Utilize machine learning tools (Liblinear and XGBoost) to mine potential customers for personalized advertising
- Outcome: increased the company's revenue on financial products by 4 times

PUBLICATIONS

- Shijie Geng, Zuohui Fu, Yingqiang Ge, **Lei Li**, Gerard de Melo, Yongfeng Zhang. Improving Personalized Explanation Generation through Visualization. In: Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (**ACL'22**), pages *-*, Dublin, Ireland, May 22–27, 2022.
- Zhirun Zhang^(□), Li Chen, Tonglin Jiang^(□), Yutong Li, **Lei Li**. Effects of Feature-based Explanation and Its Output Modality on User Satisfaction with Service Recommender Systems. Frontiers in Big Data, volume 5, article 897381, pages 1-17, May 2022.
- Lei Li, Yongfeng Zhang, Li Chen. Personalized Transformer for Explainable Recommendation. In: Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics (ACL'21), pages 4947-4957, Online, Thailand, August 1–6, 2021. (oral paper)
- Lei Li, Li Chen, Ruihai Dong. CAESAR: Context-Aware Explanation based on Supervised Attention for Service Recommendations. Journal of Intelligent Information Systems (JHS), volume 57 (1), pages 147-170, August 2021.
- Lei Li, Yongfeng Zhang, Li Chen. EXTRA: Explanation Ranking Datasets for Explainable Recommendation. In: Proceedings of the 44th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR'21 Resource), pages 2463-2469, Virtual Event, Canada, July 11–15, 2021.
- Lei Li, Yongfeng Zhang, Li Chen. Generate Neural Template Explanations for Recommendation. In: Proceedings of the 29th ACM International Conference on Information & Knowledge Management (CIKM'20), pages 755-764, Virtual Event, Ireland, October 19–23, 2020.
- Lei Li, Li Chen, Yongfeng Zhang. Towards Controllable Explanation Generation for Recommender Systems via Neural Template. In: Companion Proceedings of the Web Conference 2020 (WWW'20 Demo), pages 198-202, Taipei, Taiwan, April 20–24, 2020.
- Lei Li, Ruihai Dong, Li Chen. Context-aware Co-Attention Neural Network for Service Recommendations. In: 2019 IEEE 35th International Conference on Data Engineering Workshops (ICDE'19 Workshop), pages 201-208, Macao, China, April 8–12, 2019.
- Lei Li, Weike Pan^(□), Li Chen, Zhong Ming^(□). RLT: Residual-Loop Training in Collaborative Filtering for Combining Factorization and Global-Local Neighborhood. In: 2018 International Conference on Web Services (ICWS'18), pages 326-336, Seattle, USA, June 25–30, 2018.

☑ denotes corresponding author.

Participation in Proposal Writing

- Research on Generating Explainable Serendipity-Oriented Recommendations based on Knowledge Graph
 - Principal Investigator: Dr. Li Chen
 - Funded by General Research Fund (GRF) in 2020
- Engaging the Audience with AI-powered News Chatbot
 - Principal Investigator: Dr. Li Chen
 - Funded by HKBU IRCMS Project in 2019

₽ TALKS

• Research Experience Sharing

Nov. 11, 2021

- CSD, HKBU
- How to Come up with Ideas and Do Research: Experience Sharing
 - COMP7160 Research Methods in Computer Science, CSD, HKBU

Oct. 19, 2021

ACADEMIC SERVICES

- Program Committee Member: RecSys'22, SocInfo'22, SAC'22 & SAC'21 RS Track
- Reviewer:
 - ACM Transactions on Information Systems (TOIS)
 - ACM Transactions on Interactive Intelligent Systems (TiiS)
 - IEEE Transactions on Big Data (TBD)
 - Neurocomputing (NEUCOM)
 - Knowledge-based Systems (KNOSYS)

- Journal of Intelligent Information Systems (JIIS)
- External Reviewer: SIGIR'21, WWW'21, WWW'19, ImpactRS'20, CARS'19
- Student Volunteer: EMNLP'19

* Awards & Honors

• RPg Performance Award, CSD, HKBU	Sep. 2021
Research Postgraduate Studentship, HKBU	Aug. 2017 – Aug. 2021
• Student Travel Grant (Virtual), SIGIR'21	Jul. 2021
• Research Excellence Award, Postgraduate Research Symposium (PG Day), CSD	Jun. 2021
• Student Travel Grant (Virtual), CIKM'20	Oct. 2020
• Best Presentation Award, Postgraduate Research Symposium (PG Day), CSD, F	IKBU Jun. 2020
• Excellent Teaching Assistant Performance Award, CSD, HKBU	Jun. 2018 & 2019 & 2020
• Teaching Assistant Performance Award, CSD, HKBU	Feb. 2020
Outstanding Graduate, SZU	Jun. 2017
• Excellent Student of Academic Performance (The 2nd Prize), SZU	Oct. 2016
• Excellent Student Leader (The 2nd Prize), SZU	Oct. 2015
• Song Shan Hu Scholarship, SZU	Oct. 2014
 National Motivational Scholarship, SZU 	Oct. 2014

🗱 IT SKILLS

- Programming language: Python, Java, Matlab, C++ (ordered by proficiency)
- Platform and tools: Linux, PyTorch, TensorFlow, LATEX, Scikit-learn, MongoDB, Django, XGBoost, Liblinear, Git

i Miscellaneous

- Language: Mandarin (native), English (fluent)
- Google Scholar: citations (80+), h-index (5), h10-index (2)
- Github: stars (140+)

Last update: May 6, 2022