

# LEI LI 李磊

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## 🔗 RESEARCH INTERESTS

Explainable Recommendation, Recommender Systems, Natural Language Processing, Causal Inference

## 🎓 EDUCATION

**Hong Kong Baptist University (HKBU)**, Hong Kong, China Aug. 2017 – Present

*Ph.D. Candidate* in Computer Science, expected Feb. 2022

**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* Supervisor: Dr. Li Chen, Mentors: Dr. Yongfeng Zhang & Dr. Ruihai Dong

- Research on explainable recommendation

- *Outputs:*

- Submitted one paper on *Explanation Ranking* to ACM Transactions on Information Systems (TOIS)
- Published one paper on *Transformer based Explanation Generation* in ACL'21
- Published one paper on *Explanation Ranking* in SIGIR'21 Resource
- Published two papers on *Natural Language Explanation Generation* in WWW'20 Demo & CIKM'20
- Published one paper on *Context-aware Explanation* in Journal of Intelligent Information Systems (JIIS)
- Published one paper on *Context-aware Recommendation* in 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* Supervisor: Dr. Weike Pan

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

**Department of Computer Science, HKBU**, Hong Kong, China Mar. 2017 – Jun. 2017

*Research Exchange Student* Supervisor: Dr. Li Chen

- Research on personality for recommender systems

**Suishou Technology**, Shenzhen, China Aug. 2016 – Nov. 2016

*Intern* Supervisor: Dr. Weike Pan

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

## PUBLICATIONS

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- **Lei Li**, Yongfeng Zhang, Li Chen. Learning to Explain Recommendations. ACM Transactions on Information Systems (TOIS), 2021. [submitted]
- **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, Bangkok, Thailand (Virtual), August 1–6, 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, Montreal, Canada (Virtual), July 11–15, 2021.
- **Lei Li**, Li Chen, Ruihai Dong. CAESAR: Context-Aware Explanation based on Supervised Attention for Service Recommendations. Journal of Intelligent Information Systems (**JiIS**), vol. 57(1), pages 147-170, 2021.
- **Lei Li**, Yongfeng Zhang, Li Chen. Generate Neural Template Explanations for Recommendation. In: Proceedings of the 29th ACM International Conference on Information and Knowledge Management (**CIKM'20**), pages 755-764, Galway, Ireland (Virtual), 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 2020 World Wide Web Conference (**WWW'20 Demo**), pages 198-202, Taipei, Taiwan (Virtual), April 20–24, 2020.
- **Lei Li**, Ruihai Dong, Li Chen. Context-aware Co-Attention Neural Network for Service Recommendations. In: Proceedings of 2019 IEEE 35th International Conference on Data Engineering Workshop on Recommender Systems with Big Data (**ICDE'19 Workshop**), pages 201-208, Macau, China, April 8–12, 2019.
- **Lei Li**, Weike Pan<sup>(✉)</sup>, Li Chen, Zhong Ming<sup>(✉)</sup>. RLT: Residual-Loop Training in Collaborative Filtering for Combining Factorization and Global-Local Neighborhood. In: Proceedings of 25th International Conference on Web Services (**ICWS'18**), pages 326-336, Seattle, USA, June 25–30, 2018.

✉ denotes corresponding author.

## PARTICIPATION IN PROPOSAL WRITING

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- 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

## ACADEMIC SERVICES

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- *Program Committee Member* of SAC'21 RS Track
- *Reviewer* of ACM Transactions on Information Systems (TOIS), ACM Transactions on Interactive Intelligent Systems (TiiS), Knowledge-based Systems (KNOSYS), Neurocomputing (NEUCOM), Journal of Intelligent Information Systems (JIIS)
- *External Reviewer* of SIGIR'21, WWW'21, WWW'19, ImpactRS'20, CARS'19
- *Student Volunteer* of EMNLP'19

## AWARDS & HONORS

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- *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, HKBU Jun. 2021
- *Student Travel Grant (Virtual)*, CIKM'20 Oct. 2020
- *Best Presentation Award*, Postgraduate Research Symposium (PG Day), CSD, HKBU Jun. 2020
- *Excellent Teaching Assistant Performance Award*, CSD, HKBU Jun. 2018 & 2019 & 2020

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| • <i>Teaching Assistant Performance Award</i> , CSD, HKBU                | Feb. 2020 |
| • <i>Outstanding Graduate</i> , SZU                                      | Jun. 2017 |
| • <i>Excellent Student of Academic Performance (The 2nd Prize)</i> , SZU | Oct. 2016 |
| • <i>Excellent Student Leader (The 2nd Prize)</i> , SZU                  | Oct. 2015 |
| • <i>Song Shan Hu Scholarship</i> , SZU                                  | Oct. 2014 |
| • <i>National Motivational Scholarship</i> , SZU                         | Oct. 2014 |

## IT SKILLS

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- Programming language: Python, Java, Matlab, C++ (ordered by proficiency)
- Platform and tools: Linux, PyTorch, TensorFlow, L<sup>A</sup>T<sub>E</sub>X, Scikit-learn, MongoDB, Django, XGBoost, Lib-linear, Git

## MISCELLANEOUS

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- Language: Mandarin (native), English (fluent)

Last update: September 29, 2021