

# LEI LI 李磊

✉ csleili@comp.hkbu.edu.hk · ☎ (+852) 3411-5019 · 🌐 lileipisces.github.io

📍 RM625, David C. Lam Building, 34 Renfrew Road, Kowloon Tong, Hong Kong, China

## 🔗 RESEARCH INTERESTS

Explainable Recommendation, Recommender Systems, Natural Language Processing, Deep Learning

## 🎓 EDUCATION

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

*Ph.D. Candidate* in Computer Science, expected Aug. 2021

**Shenzhen University (SZU)**, Shenzhen, China Sept. 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, Consultants: Dr. Yongfeng Zhang & Dr. Ruihai Dong

- Research on explainable recommendation

- *Outcome:*

- Published two papers on *Natural Language Explanation Generation* in WWW'20 Demo and 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* Advisor: Dr. Peng Peng

- Research on explaining the decision-making process of reinforcement learning (RL) agents

- Visualizing the replay data of a video 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* in 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

**Shenzhen Suishou Technology Co., Ltd.**, 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

- **Lei Li**, Li Chen, Ruihai Dong. CAESAR: Context-Aware Explanation based on Supervised Attention for Service Recommendations. Journal of Intelligent Information Systems (JIIS), vol. \*(\*), pages \*-\*, 2020.

- **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 ICDE'19 Workshop on Recommender Systems with Big Data (RSBD), 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 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

## ACADEMIC SERVICES

- *Reviewer* of ACM Transactions on Information Systems (TOIS), Knowledge-based Systems (KBS), Neurocomputing, SAC'21
- *External Reviewer* of WWW'19, WWW'21, Journal of Intelligent Information Systems (JIIS), CARS'19, ImpactRS'20
- *Student Volunteer* of EMNLP'19

## AWARDS & HONORS

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|--|-------------------------|
| • <i>Research Postgraduate Studentship</i> , HKBU  | Aug. 2017 – Present     |
| • <i>SIGIR Student Travel Grant (Virtual)</i> , CIKM'20                                  | Oct. 2020               |
| • <i>Best Presentation Award</i> , Research Postgraduate Symposium (PG Day) of CSD, HKBU | Jun. 2020               |
| • <i>Excellent Teaching Assistant Performance Award</i> , CSD, HKBU                      | Jun. 2018 & 2019 & 2020 |
| • <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

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

## MISCELLANEOUS

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

Last update: November 28, 2020