

Xiaopeng Li

Ph.D. Student

The Hong Kong University of Science and Technology
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<http://eelxpeng.github.io>

Research Interests

Machine Learning, Deep Learning, Bayesian Networks and Graphical Models, Bayesian Deep Learning and applications on Recommender Systems, Natural Language Processing and Computer Vision, etc.

Education

PhD Candidate, Computer Science and Engineering, HKUST	2014–2019
B.A. Electronics and Information, Sun Yat-sen University	2008–2012

Employment

Software Engineer Intern @ Google, US. Jun.– Sep. 2018
Worked on AutoML Recommendations with Google Brain and Cloud AI team, mainly focusing on sequence modeling with Convolutional Neural Networks, Recurrent Neural Networks and Attention Networks for recommendation.

Publications

CONFERENCE ARTICLES

1. **X. Li**, Z. Chen, Leonard K. M. Poon and Nevin L. Zhang. Learning Latent Superstructures in Variational Autoencoders for Deep Multidimensional Clustering. In *Proceedings of International Conference on Learning Representations*, 2019. (Accepted)
2. **X. Li**, Z. Chen and Nevin L. Zhang. Building Sparse Deep Feedforward Networks using Tree Receptive Fields. In *Proceedings of International Joint Conference on Artificial Intelligence*, Jul. 2018.
3. **X. Li** and J. She. Collaborative Variational Autoencoder for Recommender Systems. In *Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, Aug. 2017.
4. **X. Li** and J. She. Relational Variational Autoencoder for Link Prediction. In *Proceedings of ACM International Conference on Multimedia Thematic Workshop*, Oct. 2017.
5. **X. Li**, M. Cheung and J. She. Connection Discovery using Shared Images by Gaussian Relational Topic Model. In *Proceedings of IEEE International Conference on Big Data*, Dec. 2016.

JOURNAL ARTICLES

6. **X. Li**, M. Cheung and J. She. A Distributed Streaming Framework for Connection Discovery Using Shared Videos. *ACM Transactions on Multimedia Computing, Communications, and Applications*, Sep. 18, 2017.
7. J. Wen, J. She, **X. Li** and H. Mao. Dance Background Image Recommendation with Deep Matrix Factorization. *ACM Transactions on Multimedia Computing, Communications, and Applications*, Jan., 2018.

Teaching

1. Teaching Assistant | The Hong Kong University of Science and Technology 2015-2018
 COMP 5213: Introduction to Bayesian Networks
 COMP 2711: Discrete Mathematics for Computer Science
 ELEC 6910q: Analytics and Systems for Social Media and Big Data Applications
 ELEC 2400: Electronic Circuits
 ELEC 1200: A System View of Communications: from Signals to Packets

Professional Service

JOURNAL REVIEWING

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| IEEE Transactions on Big Data | 2017 |
| IEEE Transactions on Multimedia | 2017 |
| ACM Transactions on Multimedia Computing, Communications, and Applications | 2017 |

CONFERENCE REVIEWING

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| Annual Conference on Neural Information Processing Systems | 2017 |
| AAAI Conference on Artificial Intelligence | 2018 |
| International Conference on Machine Learning | 2018 |
| Annual Conference on Neural Information Processing Systems | 2018 |

PROFESSIONAL MEMBERSHIPS

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| IEEE Student Member | 2016-2017 |
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