

SHUAI ZHANG

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RESEARCH INTEREST

Recommender Systems, Data Mining, Deep Learning

EDUCATION

University of New South Wales *Nov.2016-Present*
Ph.D candidate in School of Computer Science and Engineering
Supervisors: Lina Yao, Xiwei Xu and Liming Zhu

Nanjing University *Sept.2010-Jul.2014*
Bachelor in Information Management and Information System
Thesis: Semantic Web based Question Answering System for Library Linked Data
Advisor: Prof. Shiyan Ou

PUBLICATIONS

Accepted

- ◇ Deep Neural Networks meet Recommender Systems. **Shuai Zhang**, Lina Yao, Aixin Sun, Guibing Guo, Xiwei Xu, Liming Zhu. *to appear in the book "Big Data Recommender Systems: Recent Trends and Advances", Institution of Engineering and Technology* (Invited Book Chapter).
- ◇ NeuRec: On Nonlinear Transformation for Personalized Ranking. **Shuai Zhang**, Lina Yao, Aixin Sun, Sen Wang, Guodong Long, Manqing Dong. *The 27th International Joint Conference on Artificial Intelligence (IJCAI, Core Rank: A*)*. 2018. Stockholm, Sweden.
- ◇ AutoSVD++: An Efficient Hybrid Collaborative Filtering Model via Contractive Auto-encoders. **Shuai Zhang**, Lina Yao, Xiwei Xu. *The 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR, Core Rank: A*)*. 2017. Tokyo, Japan.
- ◇ Coupled Linear and Deep Nonlinear Method for Meetup Service Recommendation. **Shuai Zhang**, Lina Yao, Xiaodong Ning, Chaoran Huang, Xiwei Xu, Shiyan Ou. *The 16th International Conference on Web Services (ICWS, Core Rank: A)*. 2018. Seattle, United States.
- ◇ Hybrid Collaborative Recommendation via Semi-AutoEncoder. **Shuai Zhang**, Lina Yao, Xiwei Xu, Sen Wang, Liming Zhu. *The 24th International Conference On Neural Information Processing (ICONIP 2017, Core Rank: A)*, Guangzhou, China.
- ◇ Data-Augmented Regression with Generative Convolutional Network. Xiaodong Ning, Lina Yao, Xianzhi Wang, Boualem Benatallah, **Shuai Zhang**. *The 19th International Conference on Web Information Systems Engineering (WISE, Core Rank: A)*. 2018. Dubai, United Arab Emirates.
- ◇ Expert Recommendation via Tensor Factorization with Regularizing Hierarchical Topical Relationships. Chaoran Huang, Xianzhi Wang, Lina Yao, Boualem Benatallah, **Shuai Zhang**, Manqing Dong. 16th International Conference on Service Oriented Computing (**ICSOC, Core Rank: A**). Hanzhou, China, Nov 12 - Nov. 15, 2018.
- ◇ Rating Prediction via Generative Convolutional Neural Networks based Regression. Xiaodong Ning, Lina Yao, Xianzhi Wang, Boualem Benatallah, Manqing Dong, **Shuai Zhang**. *Pattern Recognition Letters, SJR Q2*. 2018

- ◇ An Ontology & Linked Data Driven Semantic Integration Method of Library Information Resources and Its Evaluation (Chinese). Shiyan Ou, Shan Hu, **Shuai Zhang**. *Library and Information Service* (CSSCI), 2014, 58(2)

Under Review & Revision

- ◇ Deep Learning based Recommender System: A Survey and New Perspectives. **Shuai Zhang**, Lina Yao, Aixin Sun. *ACM Computing Surveys, SJR Q1 (Major Revision)*, 2017).
- ◇ Metric Factorization: Recommendation beyond Matrix Factorization. **Shuai Zhang**, Lina Yao, Yi Tay, Xiwei Xu, Xiang Zhang, Liming Zhu. *arXiv preprint arXiv:1802.04606*, 2018.
- ◇ Internet of Things Meets Brain-Computer Interface: A Unified Deep Learning Framework for Enabling Human-Thing Cognitive Interactivity. Xiang Zhang, Lina Yao, **Shuai Zhang**, Salil S. Kanhere, Quan Z. Sheng, Yunhao Liu. *IEEE Internet of Things Journal (Major Revision)*.

PROFESSIONAL SERVICES

Project Funded by National Social Science Fund of China

Jun.2017 - Present

- ◇ Member of a project on Linked Data for Academic Literature. Director: Shiyan Ou

Invited Talk by RMIT University

Nov.2017

- ◇ Topic: Deep Learning for Recommender Systems, school of Computer Science and Information Technology, RMIT University

Reviewer

- ◇ Invited Reviewer: IEEE TKDE, IEEE Access, Neurocomputing, Pattern Recognition Letter
- ◇ External Reviewer: CIKM 2018, TKDD, Artificial Intelligence Review 2018, IJCAI 2018, ICWS 2017

Membership

- ◇ ACM student membership *Mar.2017*
- ◇ IEEE student membership *Jan.2017*
- ◇ China Computer Federation student membership *May.2017-Present*

WORK EXPERIENCE

Software Engineer, OPPO

Jul.2014-Jun.2016

- ◇ Android mobile applications development.
- ◇ Designed and developed Android widgets.
- ◇ Bug fixing and Maintenance.

SCHOLARSHIP AND AWARDS

- ACM SIGIR 2017 Travel Grant *2017*
- UNSW Tuition Fee Scholarship, UNSW *Nov.2016-2020*
- Data61 Student Scholarship, Data61, CSIRO *Nov.2016-2020*
- Excellent Student, School of Information Management, Nanjing University *Feb.2012*
- People Scholarship, Nanjing University *2011,2012,2013*