SHUAI ZHANG

+61-44-908-6684 ⋄ shuai.zhang@student.unsw.edu.au

K17, CSE, UNSW, Sydney, NSW 2052, Australia

Homepage: www.cse.unsw.edu.au/~z5122282

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*