

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. Shiyao Ou

PUBLICATIONS

Under Review & Revision

- *2018*: **Shuai Zhang**, Lina Yao, Yi Tay, Xiwei Xu, Xiang Zhang, Liming Zhu. Metric Factorization: Recommendation beyond Matrix Factorization. *IEEE International Conference on Data Engineering (ICDE, Under Review)*.
- *2018*: Xiang Zhang, Lina Yao, Xianzhi Wang, Wenjie Zhang, **Shuai Zhang**, Yunhao Liu. Know Your Mind: Adaptive Brain Signal Classification with Reinforced Attentive Convolutional Neural Networks. *IEEE International Conference on Data Engineering (ICDE, Under Review)*.
- *2018*: Xiang Zhang, Lina Yao, **Shuai Zhang**, Salil S. Kanhere, Quan Z. Sheng, Yunhao Liu. Internet of Things Meets Brain-Computer Interface: A Unified Deep Learning Framework for Enabling Human-Thing Cognitive Interactivity. *IEEE Internet of Things Journal (Under Review)*.
- *2018*: Manqing Dong, Lina Yao, Xianzhi Wang, Boualem Benatallah, **Shuai Zhang**. GrCan: Gradient Boost Convolutional Autoencoder with Neural Decision Forest. *IEEE Transactions on Knowledge and Data Engineering (Under Review)*.
- *2018*: **Shuai Zhang**, Lina Yao, Aixin Sun, Guibing Guo, Xiwei Xu, Liming Zhu. Deep Neural Networks meet Recommender Systems. *Institution of Engineering and Technology (Invited Book Chapter, Under Review)*.
- *2017*: **Shuai Zhang**, Lina Yao, Aixin Sun. Deep Learning based Recommender System: A Survey and New Perspectives. *ACM Computing Surveys (Major Revision)*.

Accepted

- *2018*: **Shuai Zhang**, Lina Yao, Aixin Sun, Sen Wang, Guodong Long, Manqing Dong. NeuRec: On Nonlinear Transformation for Personalized Ranking. *The 27th International Joint Conference on Artificial Intelligence (IJCAI 2018)*, Stockholm, Sweden.
- *2018*: **Shuai Zhang**, Lina Yao, Xiaodong Ning, Chaoran Huang, Xiwei Xu, Shiyao Ou. Coupled Linear and Deep Nonlinear Method for Meetup Service Recommendation. *The 16th International Conference on Web Services (ICWS 2018)*, Seattle, USA.
- *2017*: **Shuai Zhang**, Lina Yao, Xiwei Xu. AutoSVD++: An Efficient Hybrid Collaborative Filtering Model via Contractive Auto-encoders. *The 40th International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2017)*, Tokyo, Japan.

- 2017: **Shuai Zhang**, Lina Yao, Xiwei Xu, Sen Wang, Liming Zhu. Hybrid Collaborative Recommendation via Semi-AutoEncoder. The 24th International Conference On Neural Information Processing (**ICONIP 2017**), Guangzhou, China.
- 2014: Shiyao Ou, Shan Hu, **Shuai Zhang**. An Ontology & Linked Data Driven Semantic Integration Method of Library Information Resources and Its Evaluation (Chinese). **Library and Information Service** (CSSCI), 2014, 58(2)

ACADEMIC ACTIVITIES

Project

Jun. 2017 -Present

- Member of a project on Linked Data for Academic Literature
- Supported by **The National Social Science Fund of China** (Key Program)
- Director: Shiyao Ou

Invited Talk

Nov. 2017

- Deep Learning for Recommender Systems
- School of Computer Science and Information Technology, RMIT University

Reviewer

- ACM International Conference on Information and Knowledge Management (CIKM)
- IEEE Transactions on Knowledge and Data Engineering (Invited Reviewer)
- ACM Transactions on Knowledge Discovery from Data
- Artificial Intelligence Review, Springer
- International Joint Conference on Artificial Intelligence (IJCAI)
- Neurocomputing, Elsevier (Invited Reviewer)
- The International Conference on Web Services (ICWS)

Membership

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

WORK EXPERIENCE

OPPO

Jul.2014-Jun.2016

Software Engineer, ColorOS

- 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