

XUEJIAN WANG

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RESEARCH INTERESTS

The broad areas of machine learning including deep learning, reinforcement learning and applications in various domains such as recommender systems and network embeddings. In general:

- Mining underlying patterns of human interaction and behaviors
- Designing efficient and effective learning algorithms to solve real-world problems

EDUCATION

Carnegie Mellon University

Pittsburgh, USA

- PhD in Information System Management, Starting from Fall 2018

Shanghai Jiao Tong University (SJTU)

Shanghai, China

B.S in Information Security

Sep. 2014 - Jun. 2018 (expected)

- Research Assistant, APEX Data & Knowledge Management Lab
- Advisor: Prof. Weinan Zhang, Prof. Yong Yu and Prof. Jun Wang (University College London)

PUBLICATIONS

Large-Scale Interactive Recommendation via Tree-Structured Policy Gradient

- Submitted to **RecSys 2018**

Dynamic attention deep model for article recommendation by learning human editors' demonstration

- **Xuejian Wang***, Lantao Yu*(equal contribution), Kan Ren, Guanyu Tao, Weinan Zhang, Yong Yu, Jun Wang.
- In *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*. **KDD 2017**

Neural link prediction over aligned networks

- Xuezhi Cao, Haokun Chen, **Xuejian Wang**, Weinan Zhang, and Yong Yu.
- In *Proceedings of the 32nd AAAI Conference on Artificial Intelligence (AAAI-18)*. **AAAI, 2018**

RESEARCH EXPERIENCES

Personalized Article Recommendation

Sep. 2017 - Present

Advisor: Prof. Weinan Zhang

APEX Data & Knowledge Management Lab, SJTU

- This study focuses on recommending most relevant textual advertisements to users to maximize the Click-Through-Rate, in which the major challenge is how to match user interests with proper articles
- Employing hierarchical attention mechanism to obtain article embeddings and construct user interests

Neural Link Prediction over Aligned Networks

Aug. 2017 - Sep. 2017

Advisor: Prof. Yong Yu

APEX Data & Knowledge Management Lab, SJTU

- Implemented baseline *LINE: Large-scale Information Network Embedding* in Tensorflow for comparison and tuned parameters to best performance
- Revised the whole paper for 3 times and contributed over 100 submits
- Surveyed papers about social networks and extended the idea of two aligned networks to multi-aligned networks which we left as future work

Dynamic Attention Deep Model for Article Recommendation by Learning Human Editors' Demonstration

Oct. 2016 - Feb. 2017

Advisor: Prof. Weinan Zhang

APEX Data & Knowledge Management Lab, SJTU

- Built a text classification network to model the editors' underlying criterion varied with many factors such as time, current affairs, etc., for a famous Chinese media website
- Employed attention mechanism to address data drift problem, resulting in more robust and stable predictions
- Proposed a Dynamic Attention Deep Model (DADM) which outperformed other baselines in an A/B test
- Our paper was accepted to KDD 2017 and the proposed DADM model was utilized in practical cases, automating the quality article selection process to alleviate the editors' working load

PROFESSIONAL ACTIVITIES

Review Activities

CIKM 2017, WSDM 2018, AAAI 2018, SIGIR 2018

- Gave reviews for paper submissions in relevant domains for reference, which were mostly adopted
- Learnt how to evaluate academic papers from a reviewer perspective and developed tastes for papers

INTERNSHIP EXPERIENCE

ULU Technologies Inc.

Nov. 2016 - Feb. 2017

R&D Engineer Intern

- Developed a practical algorithm for article recommendation which is used in production
- Improved coding ability, learned how to independently conduct experiments and developed communication skills

HONORS & AWARDS

KDD Student Travel Award

2017

- A glorious recognition to KDD attendees awarded by ACM KDD

Rongchang Science and Technology Innovation Scholarship (Nomination)

2017

- Top 30 undergraduate scholars in Shanghai Jiao Tong University

Shanghai Jiao Tong University Excellent Scholarship

2017&2016

- Awarded to students for their excellent academic performance

Shanghai Jiao Tong University Excellent Student Award (Top 5%)

2017&2016

- Awarded to top 5% students for comprehensive performance, selected by peers

Second Prize, China Undergraduate Mathematical Contest in Modeling 2016, Shanghai

2016

Second Prize, "Data Bang" Data Innovation Contest (Top 2)

2015

SKILLS

Machine Learning:

Tensorflow, Scikit-Learn, XGBoost, Keras

Programming Languages:

Python, MATLAB, C++, R, Verilog and L^AT_EX

Standard Tests:

TOEFL: 104 (R26, L27, S22, W29) , GRE: V153, Q170, W3.5

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Student Union of School

May 2015 - May 2016

Minister of Publicity Department

Student Union of SJTU

Nov. 2015 - Feb. 2016

Minister of Communication Department of the Committee

Outstanding Volunteers

Shanghai International Marathon (2014&2016), SJTU 120th Anniversary