

XUEJIAN WANG

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RESEARCH INTERESTS

The broad areas of machine learning and applications in various domains such as recommender system and network embedding. In general:

- Mining underlying patterns of human interaction and behaviors
- Developing practical machine learning algorithms and scalable tools to solve real-world problems

EDUCATION

Shanghai Jiao Tong University (SJTU), Shanghai, China Sep. 2014 - Jun. 2018 (expected)
B.S in Cyberspace Security School of Electronic Information and Electric Engineering

PUBLICATIONS

- [1]**Xuejian Wang**, Lantao Yu, Kan Ren, Guanyu Tao, Weinan Zhang, Yong Yu, and Jun Wang. Dynamic attention deep model for article recommendation by learning human editors' demonstration. In *Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, pages 2051-2059. **KDD 2017**
- [2]Xuezhi Cao, Haokun Chen, **Xuejian Wang**, Weinan Zhang, and Yong Yu. Neural link prediction over aligned networks. 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 CNN 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

- 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 - May 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

AWARDS

- KDD Student Travel Award 2017
- Rongchang Science and Technology Innovation Scholarship (Top 30 in SJTU) 2017
- Shanghai Jiao Tong University Excellent Scholarship 2017&2016
- Shanghai Jiao Tong University Excellent Student Award (Top 5%) 2017&2016
- Second Prize, province-level CUMCM 2016 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: 101 (R 29, L 26, S 20, W 26) , 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