

# XUEJIAN WANG

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## RESEARCH INTERESTS

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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

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**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

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- [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, Yong Yu. Neural Link Prediction over Aligned Networks, accepted to *Proc. AAAI*, 2018

## RESEARCH EXPERIENCES

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**Personalized Article Recommendation** Sep. 2017 - Present  
*Advisor: Prof. Yong Yu* *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 and tuned parameters
- 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

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**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

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**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**

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- 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**

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<b>Machine Learning:</b>	Tensorflow, Scikit-Learn, xGBoost, Keras
<b>Programming Languages:</b>	Python, MATLAB, C++, R, Verilog and L <sup>A</sup> T <sub>E</sub> X
<b>Standard Tests :</b>	TOEFL: 101 (R 29, L 26, S 20, W 26) , GRE: V153, Q170

**LEADERSHIP & EXTRACURRICULAR ACTIVITIES**

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<b>Student Union of School</b>	May 2015 - May 2016
Minister of Publicity Department	
<b>Student Union of SJTU</b>	Nov. 2015 - Feb. 2016
Minister of Communication Department of the Committee	
<b>Outstanding Volunteers</b>	Shanghai International Marathon (2014&2016), SJTU 120 <sup>th</sup> Anniversary