

# HONGWEI WANG

Ph.D. Candidate – Shanghai Jiao Tong University – Shanghai, China

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## EDUCATION

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### Ph.D. candidate, Shanghai Jiao Tong University

2014 – present

- Department of Computer Science and Engineering
- Advisor: Prof. Minyi Guo

### B.E., Shanghai Jiao Tong University

2010 – 2014

- Department of Computer Science and Engineering (ACM class)
- Advisor: Prof. Yong Yu

## RESEARCH INTERESTS

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- **Recommender systems** [TCSS 2017] [RecSys 2017] [CIKM 2017] [WWW 2018]
- **Graph representation learning** [WSDM 2018] [AAAI 2018a]
- **Machine learning applications** [ICDCS 2017] [TPDS] [AAAI 2018b]

## PUBLICATIONS

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- **Hongwei Wang**, Fuzheng Zhang, Xing Xie, Minyi Guo, **DKN: Deep Knowledge-Aware Network for News Recommendation**. *The 27th World Wide Web Conference*. **WWW 2018**.
- Zhuo Li, **Hongwei Wang**, Miao Zhao, Wenjie Li, Minyi Guo, **Deep Representation-Decoupling Neural Networks for Monaural Music Mixture Separation**. *The 32nd AAAI Conference on Artificial Intelligence*. **AAAI 2018**.
- **Hongwei Wang**, Jia Wang, Jialin Wang, Weinan Zhang, Miao Zhao, Fuzheng Zhang, Xing Xie, Minyi Guo, **GraphGAN: Graph Representation Learning with Generative Adversarial Nets**. *The 32nd AAAI Conference on Artificial Intelligence*. **AAAI 2018**.
- **Hongwei Wang**, Song Guo, Jiannong Cao, Minyi Guo, **MELODY: A Long-term Dynamic Quality-Aware Incentive Mechanism for Crowdsourcing**. *IEEE Transactions on Parallel and Distributed Systems*. **TPDS**.
- **Hongwei Wang**, Fuzheng Zhang, Min Hou, Xing Xie, Minyi Guo, Qi Liu, **SHINE: Signed Heterogeneous Information Network Embedding for Sentiment Link Prediction**. *The 11th ACM International Conference on Web Search and Data Mining*. **WSDM 2018**.
- **Hongwei Wang**, Jia Wang, Miao Zhao, Jiannong Cao, Minyi Guo, **Joint Topic-Semantic-aware Social Recommendation for Online Voting**. *The 26th ACM International Conference on Information and Knowledge Management*. **CIKM 2017**.
- Jianxun Lian, Fuzheng Zhang, Min Hou, **Hongwei Wang**, Xing Xie, Guangzhong Sun, **Practical Lessons for Job Recommendations in the Cold-Start Scenario**. *The 11th ACM Conference on Recommender Systems*. **RecSys 2017**.
- **Hongwei Wang**, Song Guo, Jiannong Cao, Minyi Guo, **MELODY: A Long-term Dynamic Quality-aware Incentive Mechanism for Crowdsourcing**. *The 37th IEEE International Conference on Distributed Computing Systems*. **ICDCS 2017**.
- Xiwang Yang, Chao Liang, Miao Zhao, **Hongwei Wang**, Hao Ding, Yong Liu, Yang Li, Junlin Zhang, **Collaborative Filtering Based Recommendation of Online Social Voting**. *IEEE Transactions on Computational Social Systems*. **TCSS**.
- Shanshan Chen, Xiaoxin Tang, **Hongwei Wang**, Han Zhao, Minyi Guo, **Towards Scalable and Reliable In-memory Storage System: A Case Study with Redis**. *The 10th IEEE International Conference on Big Data Science and Engineering*. **BigDataSE 2016**.

## TALKS

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- [When Recommender System Meets Network Representation Learning](#), at ACM-class Student Academic Festival 2018, Shanghai, China, June 3, 2018.
- [DKN: Deep Knowledge-Aware Network for News Recommendation](#), at WWW 2018, Lyon, France, April 25, 2018.
- [GraphGAN: Graph Representation Learning with Generative Adversarial Nets](#), at AAAI 2018, New Orleans, Louisiana, U.S., February 4, 2018.
- [Graph Representation Learning and GraphGAN](#), at PaperWeekly online sharing, January 10, 2018.
- [GraphGAN: Graph Representation Learning with Generative Adversarial Nets](#), at Social Computing group meeting, Microsoft Research Asia, Beijing, China, November 27, 2017.
- [Joint Topic-Semantic-aware Social Recommendation for Online Voting](#), at CIKM 2017, Singapore, November 7, 2017.
- [MELODY: A Long-term Dynamic Quality-aware Incentive Mechanism for Crowdsourcing](#), at ICDCS 2017, Atlanta, Georgia, U.S., June 8, 2017.
- [Network Embedding](#), at Social Computing group meeting, Microsoft Research Asia, Beijing, China, April 26, 2017.
- [Neural Network Models for Sentence Classification](#), at Social Computing group meeting, Microsoft Research Asia, Beijing, China, November 18, 2016.

## ACADEMIC PROJECTS

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|---------------------------------------------------------------------------------|------------------------------|
| <b>Collective-intelligence computing of urban big data</b>                      | <i>09 / 2015 – 07 / 2016</i> |
| ◦ Partner: Ministry of Science and Technology of the People's Republic of China |                              |
| <b>Distributed Redis optimization</b>                                           | <i>06 / 2015 – 10 / 2015</i> |
| ◦ Partner: Shanghai Huawei Technology Co., Ltd                                  |                              |
| <b>Parallel GPU-accelerated deep learning algorithm development</b>             | <i>03 / 2015 – 06 / 2015</i> |
| ◦ Partner: Shenzhen Huawei Technology Co., Ltd                                  |                              |
| <b>“DianDianZhuan” Android application development</b>                          | <i>07 / 2014 – 08 / 2014</i> |
| ◦ Partner: Shanghai Nankang Technology Co., Ltd                                 |                              |

## PROFESSIONAL EXPERIENCES

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|-----------------------------------------------------------------|------------------------------|
| <b>Microsoft Research Asia, full-time internship</b>            | <i>09 / 2016 – present</i>   |
| ◦ Mentor: Dr. Xing Xie                                          |                              |
| <b>The Hong Kong Polytechnic University, research assistant</b> | <i>03 / 2016 – 09 / 2016</i> |
| ◦ Mentor: Prof. Jiannong Cao                                    |                              |
| <b>Microsoft Research Asia, full-time internship</b>            | <i>07 / 2013 – 04 / 2014</i> |
| ◦ Mentor: Dr. Feng Zhao                                         |                              |

## HONORS & AWARDS

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- **Overseas Alumni Doctoral Students Scholarship (Top 5%)**, Shanghai Jiao Tong University, 2017
- **The 5th place in RecsysChallenge 2017**, RecSys Challenge, 2017

- **The 2nd prize of China Graduate Mathematical Contest in Modeling**, Shanghai Jiao Tong University, 2015
- **The 3rd prize of China Graduate Mathematical Contest in Modeling**, Shanghai Jiao Tong University, 2014
- **Outstanding Doctoral Freshman Scholarship (Top 10%)**, Shanghai Jiao Tong University, 2014
- **GPA 2nd / 29**, ACM class, Shanghai Jiao Tong University, 2010-2014
- **SJTU Outstanding Undergraduate**, Shanghai Jiao Tong University, 2014
- **Arawana Scholarship (Top 5%)**, Shanghai Jiao Tong University, 2013
- **Tung OOCL Scholarship (Top 5%)**, Shanghai Jiao Tong University, 2012
- **The 2nd prize of China Undergraduate Mathematical Contest in Modeling**, Shanghai Jiao Tong University, 2012
- **National Scholarship for Encouragement (Top 10%)**, Shanghai Jiao Tong University, 2011
- **The 2nd prize of Chinese Undergraduate Physics Competition**, Shanghai Jiao Tong University, 2011
- **The 3rd prize of Chinese Senior High School Chemistry Competition**, Wuhu No. 1 Middle School, 2009
- **The 3rd prize of Chinese Senior High School Physics Competition**, Wuhu No. 1 Middle School, 2009
- **The 1st prize of Chinese Senior High School Mathematics Competition**, Wuhu No. 1 Middle School, 2009