ZHENGXIAO DU

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Department of Computer Science and Technology
Tsinghua University, P.R. China

EDUCATION

Tsinghua University Fall 2016 - Fall 2020
B.S. in Computer Science *Beijing, P.R. China*

- GPA: 3.91/4.00 (rank 1/171); admitted on basis of performance on national college admission exam (3/330000)
- Selected awards: Outstanding University Student Award by China Computer Federation (100 winners nationwide, only 4 in Tsinghua); Award for Comprehensive Quality in Tsinghua University (top 5%, awarded due to outstanding academic performance and research experience)
- Selected to *Spark Innovative Talent Cultivation Program* in Tsinghua University (top 3%, on basis of outstanding research performance)

PUBLICATION

1. **Zhengxiao Du**, Chang Zhou, Ming Ding, Hongxia Yang, and Jie Tang. Cognitive Knowledge Graph Reasoning for One-shot Relational Learning. CoRR abs/1906.05489, 2019.
2. **Zhengxiao Du**, Xiaowei Wang, Hongxia Yang, Jingren Zhou, and Jie Tang. Sequential Scenario-Specific Meta Learner for Online Recommendation. In KDD, 2019.
3. Yifeng Zhao, Jie Tang, and **Zhengxiao Du**. EFCNN:A Restricted Convolutional Neural Network for Expert Finding. In PAKDD, pages 96-107, 2019.
4. **Zhengxiao Du**, Jie Tang, and Yuhui Ding. POLAR: Attention-Based CNN for One-Shot Personalized Article Recommendation. In ECML/PKDD, pages 675-690, 2018.

RESEARCH EXPERIENCE

Department of Computer Science, Cornell University June 2019 - Present
Research Assistant to Professor Thorsten Joachims *Ithaca, USA*

- Working on learning ranking policy with fairness constraint from biased, implicit feedback.

Department of Computer Science and Technology June 2017 - June 2019
Research Assistant to Professor Jie Tang *Beijing, China*

- We proposed an attention-based CNN for related article recommendation and combine a one-shot function to provide personalized recommendation and completed empirical evaluations. A first-author paper was accepted by ECML/PKDD 2018.
- We extended the previous CNN article recommender model with active learning, to solve the cold-start problem in article recommendation and completed empirical experiments. A first-author paper is under review in IEEE Transactions on Knowledge and Data Engineering(TKDE).
- *Collaborating with Alibaba* we proposed to apply meta learning to solve scenario-award recommendation in cold-start scenarios and completed empirical experiments. A first-author paper was accepted by KDD 2019.
- *Collaborating with Alibaba* we proposed a novel algorithm to infer new facts from existing knowledge graphs with explainable reasoning processes, especially on relation types with only a few training instances and completed empirical experiments. A first-author paper is under review in NeurIPS 2019.

· I also helped to run the experiment on one of the three datasets in the paper *EFCNN:A Restricted Convolutional Neural Network for Expert Finding*, which was accepted by PAKDD 2019.

SELECTED AWARDS AND HONORS

- Outstanding University Student Award by China Computer Federation (100 winners nationwide, only 4 in Tsinghua) 2019
- Huawei Scholarship (top 5%, awarded to those with outstanding comprehensive quality) 2018
- Hongqian Electronics Scholarship 2017
- Freshman Scholarship (top 10%, awarded to those with excellent performance on national college admission exam) 2016

WORK EXPERIENCE

DAMO Academy, Alibaba Group Sep 2018 - June 2019
Intern *Beijing, China*

· Worked with Hongxia Yang to improve the Guess-what-you-like session on Taobao App by providing personalized recommendation for different purchase purposes.

ADDITIONAL INFORMATION

Additional Professional and Extracurricular Experiences

· worked in the Student Association of Science and Technology in the department in the second year and helped to organize several techonology contests.

Interests

· Debating: joined the debate team of the department and led the team to take part in the campus debate contest in Tsinghua University in 2018.

Language Skills

· **TOEFL**: Total 111 Reading 30 Listening 29 Speaking 22 Writing 30
· **GRE**: Total Total 332 Verbal 162 Quantitative 170