Jingyue Gao

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EDUCATION

Peking University, Beijing, China **Sep 2018 - Present**
Master of Computer Science, Advisor: Prof. Yasha Wang

- **Research Focus**: Recommender systems and other machine learning/data mining applications
- **Selected Courses**: Machine Learning (Excellent), Database Systems (Excellent), Analysis of Algorithms (Excellent), Digital Image Processing (Excellent).

Peking University, Beijing, China **Sep 2014 - Jul 2018**
Bachelor of Computer Science

- **GPA**: 3.7/4.0 **Rank**: 10/192
- **Selected Courses**: Advanced Mathematics (94), Mathematical Logic (98), Operating Systems (96), Lab. on Operating Systems (97), Web Data Mining (91), Data Warehousing and Data Mining (97), Information Theory (93), Computer network practicum (93)

PUBLICATIONS

* denotes equal contribution

1. **Jingyue Gao**, Xiting Wang, Yasha Wang, Xing Xie. Explainable Recommendation Through Attentive Multi-View Learning. In *Proc. of The 33rd AAAI Conference on Artificial Intelligence.* (**AAAI 2019**) [pdf]
2. **Jingyue Gao***, Yuanduo He*, Yasha Wang, Xiting Wang, Jiangtao Wang, Guangju Peng, Xu Chu. STAR: Spatio-Temporal Taxonomy-Aware Tag Recommendation for Citizen Complaints. To appear in *Proc. of The 28th ACM International Conference on Information and Knowledge Management.* (**CIKM 2019**)
3. **Jingyue Gao**, Xiting Wang, Yasha Wang, Zhao Yang, Junyi Gao, Jiangtao Wang, Wen Tang, Xing Xie. CAMP: Co-Attention Memory Networks for Diagnosis Prediction in Healthcare. To appear in *Proc. of The 19th IEEE International Conference on Data Mining.* (**ICDM 2019**)
4. Xu Chu, Yang Lin, Yasha Wang, Leye Wang, Jiangtao Wang, **Jingyue Gao**. MuLDA: A Multi-Task Semi-Supervised Learning Framework for Drug-Drug Interaction Prediction. To appear in *Proc. of The 28th International Joint Conference on Artificial Intelligence.* (**IJCAI 2019**)
5. **Jingyue Gao**, Yasha Wang, Xu Chu, Yuanduo He, Ziqing Mao. CAPED: Context-Aware Powerlet-Based Energy Disaggregation. In Proc. of The 22nd Pacific-Asia Conference on Knowledge Discovery and Data Mining. (**PAKDD 2018**) [pdf]

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Google, Mountain View, USA **Jun 2019 - Sep 2019**
Host: Dr. Bill Schilit

1. **Story Suggestion in Fuchsia Operating System.** This project is part of the intelligence layer in Fuchsia. We suggest the suitable story (a combination of multiple functional modules) for user based on his/her history interests, current query text, and contextual information, going beyond previous module suggestion in Fuchsia. We adopt the Ledger storage system to provide cross-device support. Ranking policies, matching algorithms, and indexing structures are designed to generate high quality suggestions efficiently.

Research Intern, Microsoft Research Asia, Beijing, China **Sep 2017 - Jul 2018**
Mentor: Dr. Xiting Wang and Dr. Xing Xie

2. **Explainable Recommender Systems.** This project develops an explainable deep recommendation model that combines the advantages of deep learning-based models and existing explainable methods. The basic idea is to build an initial network based on an explainable deep hierarchy (e.g., Microsoft Concept Graph). We propose an attentive multi-view learning framework to ensure accurate recommendation. To mine readable explanations, we formulate explanation generation as a constrained tree node selection problem and propose a dynamic programming algorithm for it. Experiments on public datasets and real user cases show that our model outperforms state-of-the-art methods in terms of both accuracy and explainability.

3. **Auto-generation of Advertisements.** This is a collaborative project with Microsoft ads team. We formulate advertisement generation as a machine translation problem, i.e., generating the item description as target language given item title input as source language. We adopt the state-of-the-art transformer model in this task.

Software Engineering Intern, DiDi, Beijing, China **Apr 2017 - Jun 2017**
Manager: Longzhi Du and Dr. Zang Li

4. **Feature Platform for ML Models.** This project develops a platform that manages massive features for ML applications. I was responsible for the back-end service that processes features in Hadoop distributed file system and provides statistics of feature data to front-end web page.

SELECTED AWARDS

- Award for Excellent Graduate (Peking University, top 3%)
- Outstanding Undergraduate Thesis Award (School of EECS, top 20%)
- MSRA Award of Excellence
- 2018 PAKDD Student Travel Award
- 2017 Huawei Scholarship (School of EECS, top 5%)
- 2017 MCM/ICM Finalist Award (Global, top 0.5%)
- 2016-2017 Peking University Award for Scientific Research; Kwang-Hua Scholarship
- 2015-2016 Peking University Merit Student
- 2014-2015 Peking University Award for Academic Excellents; Kwang-Hua Scholarship,

SKILLS

- **Programming**: Python, Rust, C++, and Linux bash
- Familiar with **Recommender Systems**, Data Mining and Machine Learning
- Familiar with common data structures and algorithms
- Highly motivated and able to learn new things
- **Language**: Chinese (native), English (fluent)

SERVICES

- Reviewer of Pervasive and Mobile Computing
- Sub-reviewer of CIKM 2019