

XIN ZHANG

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EDUCATION

Peking University, School of Electronics Engineering and Computer Science Beijing, China
Bachelor of Science in Intelligence Science and Technology | **GPA: 3.52/4.00** *September 2016 - July 2020*
Selected Courses: Programming in C&C++, Data Structure and Algorithm, Introduction to Computer Systems,
Computer Net and Web Technology, Probability Theory and Statistics, Linear Algebra, Pattern Recognition

EXPERIENCES

Institute of Network Computing and Information Systems, Peking University Beijing, China
Undergraduate Dissertation, advised by Prof. Bin Cui *September 2019 - June 2020*

- Investigated in the asymmetric influence between different subgroups of users in the scenario of recommendation systems, and proposed a framework incorporating such asymmetric influence into user-based collaborative filtering algorithms.
- Improved the accuracy and recall of recommendation algorithms like User-Based CF and Collaborative Memory Networks by applying our framework to them.

Institute of Computational Linguistics, Peking University Beijing, China
Research Assistant, advised by Prof. Sujian Li *June 2018 - March 2019*

- Wrote a literature review to compare and summarize techniques and corpora in the field of machine reading comprehension (MRC), helping dozens of junior undergraduates get started quickly.
- Proposed quantitatively evaluating the difficulty of questions in MRC datasets such as SQuAD by calculating TF-IDF similarity between questions and the most similar context sentences.

Microsoft Research Asia Beijing, China
Software Engineer Intern *March 2020 - June 2020*

- Developed an anomaly-diagnosis algorithm by analyzing fault signals both spatially and temporally; Improved machine-level A/B testing by considering failures' dispersion.
- Developed a web API using Flask, WSGI and SQLite3 and deployed it using Docker to enable prompt impact assessment of software rollouts and root cause analysis of detected anomalies.

Baidu (China) Co., Ltd Beijing, China
Big Data and Data Mining Intern *April 2019 - October 2019*

- Investigated in the similarity of users using cluster algorithms such as K-means and DBSCAN and analyzed over 20 factors influencing similarity using dimensionality reduction methods such as PCA and t-SNE.
- Optimized the control group selection procedure in the A/B test using Spark and Python and increased the credibility of the department's testing framework for a certain kind of experiment.

PUBLICATION

Xin Zhang, An Yang, Sujian Li, Yizhong Wang. Machine Reading Comprehension: a Literature Review. Preprint on arXiv, 2019.

HONORS AND AWARDS

Excellent Graduate, Beijing Department of Education (top 2% overall in school) *July 2020*
Merit Student, Peking University (top 10% overall in school) *September 2017, 2018, 2019*
Huawei Scholarship, Peking University (top 10% overall in school) *September 2017, 2018, 2019*

SKILLS

Programming Languages: Python, C++, C, SQL, Shell
Tools: Spark, Hadoop, Hive, Git, Docker, LaTeX