

Zhengbao Jiang

Education

- 2015–2018 **M.S.**, *Renmin University of China*, Computer Science, *GPA: 3.85/4*.
Research Focus: Information Retrieval, NLP, Machine Learning, Data Mining.
Advisor: Zhicheng Dou, Ji-Rong Wen.
- 2011–2015 **B.Eng.**, *Renmin University of China*, Computer Science, *GPA: 3.81/4*.
Thesis: Generating Query Facets Using Knowledge Bases.

Publication

- CIKM'18 **Personalizing Search Results Using Hierarchical RNN with Query-aware Attention.**
Songwei Ge, Zhicheng Dou, Zhengbao Jiang, Jian-Yun Nie, Ji-Rong Wen
(to appear)
- TKDE'18 **Supervised Search Result Diversification via Subtopic Attention.**
Zhengbao Jiang, Zhicheng Dou, Wayne Xin Zhao, Jian-Yun Nie, Ming Yue, Ji-Rong Wen
IEEE Transactions on Knowledge and Data Engineering, 2018
- SIGIR'17 **Learning to Diversify Search Results via Subtopic Attention.**
Zhengbao Jiang, Ji-Rong Wen, Zhicheng Dou, Wayne Xin Zhao, Jian-Yun Nie, Ming Yue
40th SIGIR Conference on Research and Development in Information Retrieval 2017 (pp. 545-554).
- TKDE'17 **Generating Query Facets Using Knowledge Bases.**
Zhengbao Jiang, Zhicheng Dou, Ji-Rong Wen
IEEE Transactions on Knowledge and Data Engineering, 2017, 29(2): 315-329.
- TKDE'16 **Automatically Mining Facets for Queries from Their Search Results.**
Zhicheng Dou, Zhengbao Jiang, Sha Hu, Ji-Rong Wen, Ruihua Song
IEEE Transactions on Knowledge and Data Engineering, 2016, 28(2): 385-397.

Experience

- 2017.10–2018.3 **Research Intern**, *AI Labs, Alibaba Group*.
Mentor: Zaiqing Nie.
Research Topic: probabilistic graphical model, dialog generation.
 - dialog segmentation: automatically segment a multi-turn dialog based on underlying intents to better maintain long-term consistency.
- 2017.7–2017.10 **Research Intern**, *Big Data Mining Group, Microsoft Research Asia*.
Mentor: Zaiqing Nie.
Research Topic: dialog system, natural language representation.
 - probabilistic word embedding: formalize Skig-Gram model as a hierarchical generative process, which naturally models meaning variation of a word.
- 2015.3–2018.6 **Research Assistant**, *Beijing Key Lab of Big Data Management and Analysis Methods*.
Advisor: Zhicheng Dou, Wayne Xin Zhao, Jian-Yun Nie, Ji-Rong Wen.
Research Topic: search result diversification, query facets mining.
 - diversify search results in an intent-aware learning approach: use RNN to model the sequence of selected documents and attention mechanism to decide which subtopic to pay attention to.
 - using the entities and their relationship contained in KB to generate or expand query facets.

2014.2–2014.12 **Software Engineer, OfferCalendar/职业笔记**, Beijing.

OfferCalendar (www.offercal.com) is a job-hunting management tool for college graduates. Responsible for front-end development.

- front-end is completely separated from back-end by (1) using Flask as user state manager and page router (2) using RESTful API as the only interface between two ends.
- static pages and rich-interaction pages are rendered by Flask and AngularJS respectively, which enhances the user experience and maintains the efficiency at the same time.

Skills

Programming Python, JavaScript, Java, C#, C++, C, HTML, Matlab

Language Chinese: native

English: fluent, TOEFL 104(R28,L25,S26,W25) GRE 326(V156,Q170)+3.5

Awards

2017 **Wu Yuzhang Scholarship**, highest honor in Renmin University of China, *10/24000*.

2016, 2017 **National Scholarship for Graduates**.

2016 **Kaggle Avito Duplicate Ads Detection**, *16th/548*.

Work as the team leader to detect dup ads using various text and vision techniques.

- large amounts of features ranging from handcrafted ones to learned representations (w2v for text and VGG for image).
- use FM to model the non-linear interaction among the words of the two ads.
- stack multiple models (XGB, MLP, FM, RF) trained on different feature subsets to further improve performance.

2015 **Excellent Graduate Student Award of Renmin University of China**.

2014 **Kwang-Hua Scholarship**.

2013 **First-Class Scholarship of Renmin University of China**.

Professional Activities

Journal Reviewer TKDE, TIST

Conf Reviewer SIGIR'16, SIGIR'17, CIKM'17, WSDM'17, AAAI'18, SIGMOD'18