

# 吕超

☎ (+86) 135-2036-6380 | ✉ lvchao@pku.edu.cn | 🏠 ziaolang.github.io | 📱 ziaolang | 🌐 chaolv

## 教育背景

北京大学	计算机科学硕士	Sep. 2014 - Jul. 2017
南京大学	计算机科学学士	Sep. 2010 - Jul. 2014

## 专业技能

编程语言	Python, C++, C#, Java, Object-C, PHP, Javascript and Lua
英语水平	英语六级
研究领域	信息检索, 深度学习和推荐系统
项目开发	软件开发, 网页开发和移动端游戏开发 (IOS/Android/HTML5)

## 项目经历

### 微软亚洲研究院实习

在微软亚洲研究院实习期间，主要的工作集中在个性化工作助手中的推荐系统。利用基于 word2vec 的算法进行关键词抽取，再使用这些关键词对用户和文件进行兴趣建模。最终，基于兴趣相似度模型，相关的用户、文件和新闻会每日定时推送给目标用户。

### TREC2015 微博推荐评测

微博推荐任务中，实时监测微博流，通过实时聚类的方法进行事件聚类，将热门中心事件推送给用户。同时维护历史推动记录，避免相似事件的重复推送。组队参赛，最终排名第 1 名。。

### TREC2014 微博检索评测

微博检索任务中，利用 URL 扩展、Freebase 扩展、Google 扩展等方式减缓词汇稀疏不匹配问题，利用排序学习方法融合 TFIDF 模型、BM25 模型、语言模型等，附加微博质量特征以过滤低质量检索结果。组队参赛，最终排名第 1 名。

### 阿里移动推荐算法

移动推荐任务中，通过御膳房 OPDS 平台，从十亿级用户历史操作数据中提取特征，利用机器学习的方法对用户网购模式进行建模，预测用户未来的将会发生的购买行为。个人参赛，最终排名第 26 名。

## 论文列表

- **Chao Lv**, Runwei Qiang, Feifan Fan and Jianwu Yang. Knowledge-based Query Expansion in Real-Time Microblog Search. *AIRS 2015*.
- **Chao Lv**, Runwei Qiang, Lili Yao and Jianwu Yang. EEST: Entity-driven Exploratory Search for Twitter. *AIRS 2015*.
- **Chao Lv**, Feifan Fan, Runwei Qiang, Yue Fei and Jianwu Yang. PKUICST at TREC 2014 Microblog Track: Feature Extraction for Effective Microblog Search and Adaptive Clustering Algorithms for TTG. *TREC 2014*.
- Yue Fei, **Chao Lv**, Yansong Feng and Dongyan Zhao. Real-time Filtering on Interest Profiles in Twitter Stream. *JCDL 2016*.
- Feifan Fan, Yue Fei, **Chao Lv**, Lili Yao, Jianwu Yang and Dongyan Zhao. PKUICST at TREC 2015 Microblog Track: Query-biased Adaptive Filtering in Real-time Microblog Stream. *TREC 2015*.
- Feifan Fan, Runwei Qiang, **Chao Lv** and Jianwu Yang. Improving Microblog Retrieval with Feedback Entity Model. *CIKM 2015*.
- Feifan Fan, Runwei Qiang, **Chao Lv**, Wayne Xin Zhao and Jianwu Yang. Tweet Timeline Generation via Graph-based Dynamic Greedy Clustering. *AIRS 2015*.

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## Education

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<b>Peking University</b>	M.S. in Computer Science	Sep. 2014 - Jul. 2017
<b>Nanjing University</b>	B.S. in Computer Science	Sep. 2010 - Jul. 2014

## Skills

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<b>Programming</b>	Python, C++, C#, Java, Object-C, PHP, Javascript and Lua
<b>English</b>	CET6
<b>Research</b>	Information Retrieval, Deep Learning and Recommender System
<b>Engineering</b>	Software Dev, Web Dev and Mobile Game Dev (IOS/Android/HTML5)

## Experience

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### Microsoft Research Asia Internship

During the internship in MSRA, I mainly focus on recommender system in Personalized Work Assistant. In particular, I extract tags from users' files via a word2vec based algorithm, then use these tags to reflect the interest distribution of users and files. For a target user, I will recommend related users, files and news to him based on interest distribution similarity.

### TREC2015 Twitter Recommender

In this competition, we use a real-time clustering method to do events cluster via detecting tweets stream, and push popular tweets to users. We keep a push history at the same time to avoid similar tweets been pushed. We win the championship in the end.

### TREC2014 Twitter Retrieval

In this competition, we use lots of query expansion methods to retard mismatch problem. Different retrieval models are combined via ranking learning. Meanwhile, low quality tweets are filtered from retrieval results. We win the championship in the end.

### Ali Mobile Recommendation Competition

In this competition, I extract features from billions of data about user history behaviors on OPDS platform, to find the shopping pattern via machine learning, and predict what users will buy in the future. Top26 in the end.

## Publications

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- **Chao Lv**, Runwei Qiang, Feifan Fan and Jianwu Yang. Knowledge-based Query Expansion in Real-Time Microblog Search. *AIRS 2015*.
- **Chao Lv**, Runwei Qiang, Lili Yao and Jianwu Yang. EEST: Entity-driven Exploratory Search for Twitter. *AIRS 2015*.
- **Chao Lv**, Feifan Fan, Runwei Qiang, Yue Fei and Jianwu Yang. PKUICST at TREC 2014 Microblog Track: Feature Extraction for Effective Microblog Search and Adaptive Clustering Algorithms for TTG. *TREC 2014*.
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