

Quan Yuan

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WORKING EXPERIENCE

09.2017– present	Facebook, Inc. <ul style="list-style-type: none">• Research Scientist	United States
04.2015– 08.2017	University of Illinois Urbana-Champaign <ul style="list-style-type: none">• Postdoctoral Research Associate at Department of Computer Science• Mentor: Prof. Jiawei Han	United States
09.2014– 04.2015	Nanyang Technological University <ul style="list-style-type: none">• Project Officer at School of Computer Engineering	Singapore

EDUCATION BACKGROUND

08.2010– 09.2014	Nanyang Technological University <ul style="list-style-type: none">• Ph.D Degree in Computer Engineering• Supervisor: Assoc. Prof. Gao Cong• Thesis: Exploiting Spatial, Temporal, and Semantic Information for Point-of-interest Recommendation	Singapore
09.2006– 07.2010	Beijing University of Posts and Telecommunications <ul style="list-style-type: none">• Bachelor Degree in Computer Engineering	China

RESEARCH INTERESTS

My main research interests include Data Mining, Machine Learning, and Information Retrieval.

Particularly, I am interested in 1) spatiotemporal mobility modeling for users, 2) recommender systems in social media, and 3) text mining and natural language processing (*e.g.*, classification, event detection, and summarization). As of Sep. 15, 2017, my paper citation count is 813. My h-index and i10-index are 12 and 14, respectively.

PUBLICATION & SUBMISSION LISTS

- [1] **Q. Yuan**, J. Shang, X. Cao, C. Zhang, X. Geng, and J. Han. **TiCom: An Approach to Detecting Multiple Periods for Events from Time Series Data**. In *CIKM*, to be published, 2017
- [2] M. Liu, Z. Liu, C. Zhang, K. Zhang, **Q. Yuan**, T. Hanratty, and J. Han. **Urbanity: A System for Interactive Exploration of Urban Dynamics from Streaming Human Sensing Data**. In *CIKM*, to be published, 2017
- [3] C. Zhang, **Q. Yuan**, and J. Han. **Towards Space and Time Coupled Social Media Analysis**. *CIKM tutorial*, 2017
- [4] C. Zhang, K. Zhang, **Q. Yuan**, F. Tao, L. Zhang, T. Hanratty, L. Kaplan, and J. Han. **ReAct: Recency-Aware Urban Activity Modeling from Geo-Tagged Social Media Streams**. In *SIGIR*, pages 245–254, 2017
- [5] **Q. Yuan**, C. Zhang, and J. Han. **A Survey on Spatiotemporal and Semantic Data Mining**. *Trends in Spatial Analysis and Modelling*, to be published, 2017
- [6] C. Zhang, L. Liu, D. Lei, **Q. Yuan**, H. Zhuang, T. Hanratty, and J. Han. **TrioVecEvent: Embedding-Based Online Local Event Detection in Geo-Tagged Tweet Streams**. pages 595–604, 2017
- [7] C. Yang, L. Bai, C. Zhang, **Q. Yuan**, and J. Han. **Bridging Collaborative Filtering and Semi-Supervised Learning: A Neural Approach for POI recommendation**. In *KDD*, pages 1245–1254, 2017
- [8] **Q. Yuan**, W. Zhang, C. Zhang, X. Geng, G. Cong, and J. Han. **PRED: Periodic Region Detection for Mobility Modeling of Social Media Users**. In *WSDM*, pages 263–272, 2017

- [9] K. Zhao, **Q. Yuan**, and G. Cong. **Spatio-temporal topic detection from social media**. *Encyclopedia of Social Network Analysis and Mining*, pages 1–9, 2017
- [10] C. Zhang, D. Lei, **Q. Yuan**, H. Zhuang, L. Kaplan, S. Wang, and J. Han. **GeoBurst+: Effective and Real-Time Local Event Detection in Geo-Tagged Tweet Streams**. *TIST*, to be published, 2017
- [11] Y. Liu, P. N. T. Anh, G. Cong, and **Q. Yuan**. **An Experimental Evaluation of Point-of-interest Recommendation in Location-based Social Networks**. *PVLDB*, 10(10):1010–1021, 2017
- [12] S. Zhao, M. Jiang, **Q. Yuan**, C. Zhai, and T. Liu. **ContextCare: Incorporating Contextual Information Networks to Representation Learning on Medical Forum Data**. In *IJCAI*, pages 3497–3503, 2017
- [13] C. Zhang, **Q. Yuan**, and J. Han. **Bringing Semantics to Spatiotemporal Data Mining: Challenges, Methods, and Applications**. *ICDE tutorial*, 2017
- [14] C. Zhang, K. Zhang, **Q. Yuan**, H. Peng, Y. Zheng, T. Hanratty, S. Wang, and J. Han. **Regions, Periods, Activities: Uncovering Urban Dynamics via Cross-Modal Representation Learning**. In *WWW*, pages 361–370, 2017
- [15] K. Zhao, Y. Liu, **Q. Yuan**, L. Chen, Z. Chen, and G. Cong. **Towards Personalized Maps: Mining User Preferences from Geo-textual Data**. *PVLDB*, 9(13):1545–1548, 2016
- [16] W. Zhang, **Q. Yuan**, J. Han, and J. Wang. **Collaborative Multi-Level Embedding Learning from Reviews for Rating Prediction**. In *IJCAI*, pages 2986–2992, 2016
- [17] C. Zhang, K. Zhang, **Q. Yuan**, L. Zhang, T. Hanratty, and J. Han. **GMove: Group-Level Mobility Modeling Using Geo-Tagged Social Media**. In *KDD*, pages 1305–1314, 2016
- [18] C. Zhang, G. Zhou, **Q. Yuan**, H. Zhuang, Y. Zheng, L. M. Kaplan, S. Wang, and J. Han. **GeoBurst: Real-Time Local Event Detection in Geo-Tagged Tweet Streams**. In *SIGIR*, pages 513–522, 2016
- [19] **Q. Yuan**, G. Cong, K. Zhao, Z. Ma, and A. Sun. **Who, Where, When and What: A Non-parametric Bayesian Approach to Context-aware Recommendation and Search for Twitter Users**. *TOIS*, 33(1):2, 2015
- [20] X. Li, T. N. Pham, G. Cong, **Q. Yuan**, X. Li, and S. Krishnaswamy. **Where You Instagram?: Associating Your Instagram Photos with Points of Interest**. In *CIKM*, pages 1231–1240, 2015
- [21] S. Feng, X. Li, Y. Zeng, G. Cong, Y. M. Chee, and **Q. Yuan**. **Personalized Ranking Metric Embedding for Next New POI Recommendation**. In *IJCAI*, pages 2069–2075, 2015
- [22] Z. Ma, A. Sun, **Q. Yuan**, and G. Cong. **A Tri-role Topic Model for Domain-specific Question Answering**. In *AAAI*, pages 224–230, 2015
- [23] K. Zhao, G. Cong, **Q. Yuan**, and K. Q. Zhu. **SAR: A Sentiment-aspect-region Model for User Preference Analysis in Geo-tagged Reviews**. In *ICDE*, pages 675–686, 2015
- [24] **Q. Yuan**, G. Cong, and A. Sun. **Graph-based Point-of-interest Recommendation with Geographical and Temporal Influences**. In *CIKM*, pages 659–668, 2014
- [25] Z. Ma, A. Sun, **Q. Yuan**, and G. Cong. **Tagging Your Tweets: A Probabilistic Modeling of Hashtag Annotation in Twitter**. In *CIKM*, pages 999–1008, 2014
- [26] **Q. Yuan**, G. Cong, and C. Lin. **COM: A Generative Model for Group Recommendation**. In *KDD*, pages 163–172, 2014
- [27] B. Liu, **Q. Yuan**, G. Cong, and D. Xu. **Where Your Photo is Taken: Geolocation Prediction for Social Images**. *JASIST*, 65(6):1232–1243, 2014
- [28] **Q. Yuan**, G. Cong, Z. Ma, A. Sun, and N. Magnenat-Thalmann. **Who, Where, When and What: Discover Spatio-temporal Topics for Twitter Users**. In *KDD*, pages 605–613, 2013
- [29] **Q. Yuan**, G. Cong, Z. Ma, A. Sun, and N. Magnenat-Thalmann. **Time-aware Point-of-interest Recommendation**. In *SIGIR*, pages 363–372, 2013
- [30] X. Cao, G. Cong, B. Cui, C. S. Jensen, and **Q. Yuan**. **Approaches to Exploring Category Information for Question Retrieval in Community Question-answer Archives**. *TOIS*, 30(2):7, 2017
- [31] Z. Ma, A. Sun, **Q. Yuan**, and G. Cong. **Topic-driven Reader Comments Summarization**. In *CIKM*, pages 265–274, 2012
- [32] **Q. Yuan**, G. Cong, A. Sun, C. Lin, and N. Magnenat-Thalmann. **Category Hierarchy Maintenance: A Data-driven Approach**. In *SIGIR*, pages 791–800, 2012

- [33] **Q. Yuan**, G. Cong, and N. Magnenat-Thalmann. **Enhancing Naive Bayes with Various Smoothing Methods for Short Text Classification**. In *WWW(Companion Volume)*, pages 645–646, 2012
- [34] **Q. Yuan**, X. Ren, W. He, C. Zhang, C.-Y. Lin, H. Ji, and J. Han. **Open-Schema Event Profiling for Massive News Corpora**. In *Submitted to WSDM*, 2017

PROFESSIONAL ACTIVITIES

08.2013– 11.2013	Research Intern <ul style="list-style-type: none"> • Knowledge Mining Group, Microsoft Research • Mentor: <i>Dr. Chin-Yew Lin</i> • Research Topic: Recommender System for Groups of Users 	China
07.2009– 06.2010	Research Intern <ul style="list-style-type: none"> • Data and Information Management Group, Peking University • Supervisor: <i>Prof. Bin Cui</i> • Research Topic: Advisor Recommender System for Undergraduate Students 	China
10.2014– present	Reviewer <ul style="list-style-type: none"> • ICDE '18, CIKM '17, ADMA '17, APWeb-WAIM '17, CCL '17, IJCIS '17, JASIST '17, DSAA '16, TKDE '16, '15, TOIS '16, KAIS '17, '16, IPM '15, WWWJ '16, NEUCOM '15, PMC '15, PRL '14, JISE '16, '15, '14, FCS '16, JCST '16, T-ASE '16, TSC '17, '16, TiiS '17 	
05.2011– present	External Reviewer <ul style="list-style-type: none"> • KDD '15, '14, '13, WWW '14, '13, WSDM '15, SIGMOD '16, PVLDB '13, ICDE '16, '12, ICDM '13, '12, CIKM '14, '13, '12, '11, SDM '14, '13, RecSys '16, DASFAA '12, PAKDD '13, '12, TOIST '12, NAACL-HLT '12, WAIM '14 	

TECHNOLOGY DISCLOSURES

10.2015	Who, Where, When and What: A Non-parametric Bayesian Approach to Context-aware Recommendation and Search for Twitter Users <ul style="list-style-type: none"> • Inventors: Quan Yuan and Gao Cong 	Ref. No.: TD-151-15
12.2013	Time-aware Point-of-interest Recommendation <ul style="list-style-type: none"> • Inventors: Quan Yuan and Gao Cong • Licensed to: TechBiz Xccelerator Pte Ltd. 	Ref. No.: TD-040-14
12.2013	Who, Where, When and What: Discover Spatio-temporal Topics for Twitter Users <ul style="list-style-type: none"> • Inventors: Quan Yuan, Gao Cong and Aixin Sun • Licensed to: TechBiz Xccelerator Pte Ltd. 	Ref. No.: TD-039-14

AWARDS

07.2014	Student Travel Grant	ACM SIGKDD Conference
07.2013	Student Travel Grant	ACM SIGKDD Conference
06.2013	Student Travel Grant	ACM SIGIR Conference
06.2012	Student Travel Grant	ACM SIGIR Conference
09.2010	NTU PhD Scholarship	Nanyang Technological University
11.2009	National Scholarship of China	Ministry of Education of China

SKILLS

- Programming Language: Java, Python, C++
- Language: Mandarin (native), English (fluent)