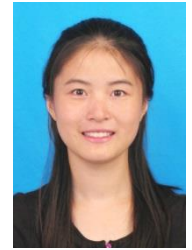


# Jing Yuan



## CONTACT

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## EDUCATION

Ph.D. Informatik	Technische Universität Berlin (TUB) Distributed Artificial Intelligence Lab	Oct. 2012 - <sup>Exp</sup> May 2017
M.Eng. Automation	University of Science and Technology of China (USTC) Joint Lab of Network Communication and Control	Sept. 2009 - Jul. 2012
B.Sc. Information Science	China Agricultural University (CAU) Honor Program (Information Science)	Sept. 2006 - Jul. 2009

## RESEARCH INTERESTS

Recommender Systems, Knowledge Discovery, User Pattern Analysis, Machine Learning, Data Mining, Learning to Rank, Probabilistic Graphical Model

## SELECTED PUBLICATIONS

- [1] **Jing Yuan**, Andreas Lommatzsch, Contextual Factors Involvement for Score Modeling under LambdaRank in Recommender Systems, *workshop Women in Machine Learning, col-located with NIPS, 4-5 Dec. 2016, Barcelona, Spain.*
- [2] **Jing Yuan**, Andreas Lommatzsch and Mu Mu, Applying Topic Model in Context-Aware TV Programs Recommendation, track *KDML in LWDA, 12-14 Sept. 2016, Potsdam.*
- [3] **Jing Yuan**, Andreas Lommatzsch, Benjamin Kille, Clicks Pattern Analysis for Online News Recommendation Systems, *NEWSREEL in CLEF 2016, Sept. 2016, Portugal.*
- [4] **Jing Yuan**, Fikret Sivrikaya, Frank Hopfgartner, Andreas Lommatzsch and Mu Mu, Context-aware LDA: Balancing Relevance and Diversity in TV Content Recommenders, *workshop RecSysTV in conjunction with RecSys 2015, Vienna Austria.*
- [5] **Jing Yuan**, How Adaptive Aggregate Contextual Recommender Benefits IP-based TV Services, *Doctoral Consortium in ACM International Conference on TVX, Newcastle upon Tyne, UK, 26<sup>th</sup>~27<sup>th</sup> Jun. 2014.*
- [6] **Jing Yuan**, Fikret Sivrikaya, Stefan Marx, Frank Hopfgartner, When to Recommend What? A Study on the Role of Contextual Factors in IP-Based TV Services, *Workshop Mind the Gap, Berlin, Germany, 4<sup>th</sup> Mar. 2014*, honored with **Best Paper Award**.
- [7] **Jing Yuan**, Quan Zheng, Zhijun Sun, Song Wang, Research on the Technology of Video Semantic Retrieval Based on Structured Semantic Strings, *International Conference on Intelligent Systems and Knowledge Engineering, Shanghai, China, Dec. 15<sup>th</sup>~17<sup>th</sup>, 2011.*

## PROJECTS

- CLEF NEWSREEL Challenge** Dec. 2015 - Jun. 2016  
Recommend news in real-time for different portals, e.g., Sport1, Tagesspiegel, data stream source: Plista GmbH. Pattern discovered: clicks manifest power law even Zipf's distribution hourly, short head deserves more attention, popularity of most clicked item can last for several days, even longer than we expected.
- Online TV Recommender for "Vision" System of Lancaster University** Jun. 2014 - present  
Study on personalized context-aware recommender for both LiveTV and VoD scenarios. Research topics: study how Extended Latent Dirichlet Allocation, Tensor Factorization in "Learning to Rank" framework and Gradient Boosting Regression Tree dealing with contextual factors differently.
- PC und Telephone für IT-Dienstleistungszentrum Berlin** Oct. 2012 - Dec. 2014  
Integrate enterprise search engine into Cisco telephone system to increase working efficiency (like 115

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inquiring) in Berlin Government System. Skill Used: NoSQL Neo4j, Ext.js, D3.js, Jetty, JTAPI, Semantic Expansion by doing SVD on User-Group Matrix

- PROJECTS**
- Video Anomaly Detection** May 2011 - Jul. 2012  
Measure the anomaly of surveillance video, e.g., jitter, snowflake and noise points.  
Skill Used: OpenCV, MFC, Least Squares Approximating, etc.
- Nationwide Data Mining Competition** Mar. 2011 - May 2011  
Design algorithm to recommend dating partner for a dating website called Shijijiayuan.  
Skill used: user-based Collaborative Filtering.
- Research on the Key Technology of Massive Video Data Space Organization, Storage and Indexing with Support for Semantic Understanding** Sept. 2009 - Apr. 2011  
Lucene index distributed stored, idf recalculating when merging the searching result to generate final ranking list. Realize semantic search with hypernyms and synonyms expansion in WordNet and Chinese Synonyms Forest. Skill Used: Lucene, Java RMI, JQuery, WordNet, Chinese Synonyms Forest, WordNet.

**PROGRAMMING** Java, C/C++, Javascript, Python, Shell/Bash, MySQL/PostgreSQL, NoSQL(Neo4j), Matlab, Latex

- TEACHING**
- Seminar Betreuer: *Advances in Semantic Search* graduate course TU Berlin, 2016, summer  
Project Betreuer: *Semantic Search* graduate course TU Berlin, 2016, summer  
Seminar Betreuer: *Intelligente Software Systemme* undergraduate course TU Berlin, 2015, winter  
Teaching Assistant: *Advanced Computer Network* graduate course USTC, 2010, fall  
Teaching Assistant: *Computer Network* undergraduate course USTC, 2010, spring

- ACTIVITIES**
- Oral presentation of accepted paper in *RecSysTV*, Vienna, Austria, Sept, 2015  
Oral presentation of accepted paper in *ACM TVX*, Newcastle upon Tyen, UK, Jun. 2014  
Oral presentation of accepted paper in *Mind the Gap, best paper award*, Berlin, Jan. 2014  
Demonstration of project "PC und Telephone" in *Cebit*, Hannover, Mar., 2014  
Demonstration of project "Semantic IPTV" in *Cebit*, Hannover, Apr. 2013  
Volunteer of 13<sup>th</sup> Paralympic Games, Beijing, China, Aug. 2008  
Volunteer of 29<sup>th</sup> Olympic Games, Beijing, China, Aug. 2008

- HONORS**
- China Scholarship Council for Ph.D. study in TU Berlin Oct. 2012 – Sept. 2016  
Distinguished Graduate in USTC year of 2012  
Second-Class Scholarship for Excellent Learning in CAU 2007 - 2008  
Second-Class Scholarship for Excellent Learning in CAU 2006 - 2007

- LANGUAGE**
- Chinese Mandarin: mother tongue  
English: professional working proficiency  
German: elementary

- HOBBIES**
- Taekwondo: Blue Stripe Belt  
Chinese Calligraphy  
Chinese Chess