

Chen Chen

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RESEARCH INTERESTS

Large scale data mining in graphs, Real-world network analysis and Information dissemination in applications to social media mining and healthcare

EDUCATION

Ph.D. in Computer Science Expected Oct.2018
Arizona State University, Arizona, USA
Advisor: Prof. Hanghang Tong

Ph.D. in Computer Science Sept.2013-May.2014
Graduate Center, City University of New York, New York, USA (Transfer to ASU)
Advisor: Prof. Hanghang Tong

M.S. in Computer Science Sept.2011-May.2013
Courant Institute of Math and Science, New York University, New York, USA

B.Eng. in Computer Science and Engineering Sept.2007-Jul.2011
Beihang University, Beijing, China

HONORS AND AWARDS

- SBP-BRiMS Doctor Consortium Travel Award 2017
- Bests of KDD 2016 2016
- KDD Travel Award 2016
- ICDM Travel Award 2015
- Bests of SDM 2015 2015
- SDM Travel Award 2015
- Science Fellowship, Graduate Center, City University of New York 2013-2014
- Tencent Scholarship, Beihang University (2/166) 2008-2009
- All-around student of Beihang University, Beihang University 2008-2009
- Academic excellence awards for two consecutive years, Beihang University (top 5%) 2007-2009

RESEARCH

Research Intern, Futurewei Technologies, Inc. May. 2016-Aug. 2016
Mentor: Dr. Hui Zang, Dr. Yinglong Xia
Area of Research: Graph mining, recommender systems

- Worked on the recommendation problems in dynamic networks

Research Assistant, Arizona State University Sept. 2014-Present
Area of Research: Graph mining, information diffusion

- Lead the project of multi-layered network mining
- Work on the project of network connectivity optimization

Research Assistant, City University of New York Sept.2013-May.2014
Area of Research: Graph mining, information diffusion and bioinformatics

- Worked on graph manipulation algorithms to control the diffusion process in network
- Analyzed the graph structure on biological data set to discover critical connections among biological entities

Research Assistant, NYU Proteus Project Group for Natural Language Processing Jun. 2012-Jan. 2013
Area of Research: Named entity extraction

- Developed and optimized the Named Entity expansion system with active learning scheme

Research Assistant, Beihang University

Jun. 2010 -Jul. 2011

Area of Research: 3D model retrieval

- Proposed a view based 3D model retrieval algorithm with Bag of Words algorithm

TEACHING

Teaching Assistant, Arizona State University

- Statistical Machine Learning
- Semantic Web Mining

Spring 2016

Spring 2015

PUBLICATIONS

Journal Papers:

- **Chen Chen**, Jingrui He, Nadya Bliss, Hanghang Tong, “Towards Optimal Connectivity on Multi-layered Networks”, IEEE Transactions on Knowledge and Data Engineering 2017
- **Chen Chen**, Hanghang Tong, Lei Xie, Lei Ying, Qing He, “Cross-Dependency Inference in Multi-layered Networks: A Collaborative Filtering Perspective”, ACM Transactions on Knowledge Discovery from Data, Special Issue of “Bests of KDD 2016”
- **Chen Chen**, Hanghang Tong, “On the Eigen-Functions of Dynamic Graphs: Fast Tracking and Attribution Algorithms”, SAM Special Issue of “Best of SDM 2015”
- **Chen Chen**, Hanghang Tong, B Aditya Prakash, Charalampos Tsourakakis, Tina Eliassi-Rad, Christos Faloutsos, Duen Horng Chau, “Node Immunization on Large Graphs: Theory and Algorithms”, IEEE Transactions on Knowledge and Data Engineering 2016
- **Chen Chen**, Hanghang Tong, B Aditya Prakash, Tina Eliassi-Rad, Michalis Faloutsos, Christos Faloutsos, “Eigen-Optimization on Large Graphs by Edge Manipulation”, ACM Transactions on Knowledge Discovery from Data 2016

Conference Papers:

- Jundong Li*, **Chen Chen***, Hanghang Tong, Huan Liu, “Multi-Layered Network Embedding”, Proceedings of SDM, 2018 (**Equal Contribution*)
- **Chen Chen**, Hanghang Tong, Lei Xie, Lei Ying, Qing He, “FASCINATE: Fast Cross-Layer Dependency Inference on Multi-layered Networks”, Proceedings of SIGKDD, 2016 (***Bests of KDD 2016***)
- **Chen Chen**, Jingrui He, Nadya Bliss, Hanghang Tong, “On the Connectivity of Multi-layered Networks: Models, Measures and Optimal Control”, Proceedings of IEEE ICDM, 2015
- **Chen Chen**, Hanghang Tong, “Fast Eigen-Functions Tracking on Dynamic Graphs”, Proceedings of SDM, 2015 (***Bests of SDM 2015***)

Doctor Consortium:

- **Chen Chen** “Network Connectivity in Complex Networks: Measures, Inference and Optimization”, Proceedings of WSDM, Doctor Consortium, 2018
- **Chen Chen**, Hanghang Tong, “Network Connectivity in Complex Networks: Measures, Inference and Optimization”, Proceedings of SBP-BRiMS, Doctor Consortium, 2017

SERVICES

- Program Committee:
The 26th ACM International Conference on Information and Knowledge Management (CIKM 2017)
- Program Committee:
The 6th CCF Conference on Natural Language Processing and Chinese Computing (NLPC 2017)

TECHNICAL SKILLS

- Programming Language: Matlab, Python, Java, C/C++
- Operating System: Window, Linux
- SDK: Visual Studio, Eclipse, Android Studio