Xindi Wang

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RESEARCH INTEREST
- Computational Social Science, Data Science, Machine Learning, Complex Systems

EDUCATION
- **Northeastern University, Boston, MA**   2015-Present
  - Ph.D student in Network Science. GPA: 4.0/4.0
  - Related coursework: **Complex Networks and Application** (Prof. Albert-László Barabási), **Dynamic Processes on Complex Networks** (Prof. Alessandro Vespignani), **Data Mining Techniques** (Prof. Tina Eliassi-Rad), **Computational Statistics** (Prof. Nick Beauchamp), **Bayesian & Network Statistics** (Prof. Nick Beauchamp), **Network Science Data** (Dr. Qian Zhang)
- **University of Electronic Science and Technology of China** (**UESTC**), **Chengdu, China**   2011-2015
  - B.Eng in Electronic Engineering and Computer Science. GPA: 3.93/4.0

RESEARCH EXPERIENCE
- **Research Assistant at CCNR, Northeastern University, Boston, MA**   2015-Present
- **Complex Systems Summer School, Santa Fe Institute, Santa Fe, NM**   2018
  - A highly selective four week intensive summer school with lectures and projects
- **Computational Social Science Summer School, University of South California, Los Angeles, CA**   2018
  - A one week summer school with lectures and projects
  - Received student travel grant and the group project won the "Best project award"
- **Mitacs Globalink Summer Internship, Ryerson University, Canada**   2014
- **Research Assistant in Web Sciences Center in UESTC**   2013-2015

PROJECTS
- **Success of Books and Authors**
  - Using various datasource, utilizing machine learning and data mining techniques to understand how books and authors become successful
- **Fairness in Machine Learning**
  - Understanding and aim to seek fairness in current biased machine learning outcomes
- **Cyberbullying in Instagram**
  - Using natural language processing, sentiment analysis etc. to understand the relationship between cyberbullying and image content and how cyberbullying developed and disappeared
- **Success of Artists**
  - Using artist exhibition history data to analyze artist career trajectories and understand the success of artists
- **Understanding Music with Higher Order Network**
  - Using Music MIDI data and higher order network framework understand structure and characteristics of different genres of music (classical, jazz and pop) and reverse engineering to identify genre of music pieces
- **Clustering Classical Music Using Acoustic Features**
  - Cluster classical music pieces using the scores of them from MusicNet data

- **A Study on Public Transport Mobility Flows in Singapore**
  - Using Singapore metro data, understand public transport mobility flows of different time, different areas and different people
- **Study on Economic and Spatial Clustering of Industries in Singapore**
  - Using Singapore economic section spatial data and industry money flow data to find economic and spatial clustering of industries
- **Chengdu transportation network by analyzing real traffic data**
  - Analyze Chengdu real-time taxi transportation data to understand the transportation pattern of a city

PUBLICATIONS AND TALKS

- Success in Books: A Big Data Approach to Bestsellers, Burcu Yucesoy, Xindi Wang, Junming Huang, Albert-László Barabási, EPJ Data Science, 2018
- Success in Books: Prediction of Book Sales, Xindi Wang, Burcu Yucesoy, Onur Varol, Tina Eliassi-Rad, Albert-László Barabási, EPJ Data Science, 2018 (Submitted)
- Quantifying In-group Favoritism vs Out-group Prejudice, Xindi Wang, Onur Varol, Tina Eliassi-Rad, (Under preparation)
- "Success of Books and Authors," The central winter conference on Network Science (NetSci-X 2018), Hangzhou, China, Jan 2018 (Talk)
- "Learning to Place Objects: A Network-based approach," International Conference on Complex Networks (CompleNet), Boston, Massachusetts, March 2018 (Talk)
- "Classical Music Clustering Based on Acoustic Features Using Networks", International Conference on Complex Networks (CompleNet), Boston, Massachusetts, March 2018 (Poster)

HONORS AND AWARDS

Best Project Award of Computational Social Science Summer School '18   2018

Outstanding Student of University of Electronic Science and Technology of China   2014
  Top 10 out of 5500 senior students of UESTC

National Scholarship   2014

Honorable Mention of Interdisciplinary Contest in Modeling   2014

Tang Lixin Scholarship   2013
  Top 50 out of 25000 undergraduate and graduate students of UESTC

First Prize in Contemporary Undergraduate Mathematical Contest in Modeling   2013

SKILLS

Programming Languages: Python, R, C, Matlab
Machine learning, Data mining and analysis, Statistics
Knowledge and extensive experience in complex networks and systems
Basic Mathematical Modeling methods with rich mathematical modeling contest experience

PERSONAL INTERESTS

Amateur piano and ukulele player, photographer