

# XI CHEN

xchen4@umass.edu ◇ <https://melongone.github.io/>

## EDUCATION

University of Massachusetts, Amherst	2022.6 - present
PhD student in Computer Science	
Research Area: Social Network Analysis	
University of Massachusetts, Amherst	2019.9 - 2022.6
MS degree in Computer Science(GPA: 3.9/4 )	
Central South University	2014.9 - 2018.6
Bachelor Degree of Engineering	
Department: Computer Science (GPA 3.9/4)	

## EXPERIENCE

University of Massachusetts, Amherst	2019.9 - present
Developed a large dataset of multilingual news article pairs with human-in-the-loop active learning framework.	
Inferred Causality in social feedback series with Generalized Linear Mixed Model.	
Institute for Artificial Intelligence, Tsinghua University	2018.3 - 2018.9
Automatically traced heterogeneous science funding and corresponding scholars with name disambiguation.	
Central South University	2016.3 - 2017.7
Devised robust and efficient schemes for mobile body network, vehicular network, and wireless sensor network.	

## PROJECT

### Large-scale News Graph Mining

- extract cross-lingual name entities with Spacy , Polyglot, and Wikipedia concepts.
- recall, pre-rank, and rank similar news article pairs based on rules and active learning classifiers.
- predict large-scale news network structure with bi-directional index and transformer.
- validate social science theory hierarchy by comparing predictability of subjectively biased aspects.

### Personalized Opinion Graph Time Series Learning

- Modeled the dynamics of opinions and personalities with probabilistic graph time series.
- Devised an extended EM algorithm for learning the graph time series and get competitive performance.

## PUBLICATION

### Multilingual Document-level Similarity

**Xi Chen**, Ali Zeynali, Chico Camargo, Fabian Flock, Devin Gaffney, Przemyslaw Grabowicz, Scott Hale, David Jurgens, Mattia Samory. Proceedings of The 15th International Workshop on Semantic Evaluation at NAACL(Task paper, oral), 2022.

Dynamic power management and adaptive packet size selection for IoT in e-Healthcare

**Xi Chen**, Ming Ma, Anfeng Liu. Computers & Electrical Engineering, 2018.

Cross Layer Design for Optimizing Transmission Reliability, Energy Efficiency, and Lifetime in Body Sensor Networks

**Xi Chen**, YiXuan Xu, Anfeng Liu. Sensors, 2017.

A Latency and Coverage Optimized Data Collection Scheme for Smart Cities Based on Vehicular Ad-hoc Networks

Yixuan Xu, **Xi Chen**, Anfeng Liu, Chunhua Hu. Sensors, 2017.

## SKILL

**PhD Courses:** Machine Learning, Optimization, Natural Language Processing, Database, Algorithm, Probabilistic Graph Model, Stochastic Calculus

**Programming Language:** Python, C/C++, R, Java, SQL, Linux, Matlab, Assembly Language

**Framework:** Experienced in Pytorch, Tensorflow, Spark

## HONOR

Nomination for Chinese Exceptional Student (1/6500 ISchool undergrads and grads), 2018.

Ranked global Top50 of Autochess players (50/millions)