

# XI CHEN

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

## EDUCATION

<b>University of Massachusetts, Amherst</b> MS/PhD student in Computer Science Research Area: Machine Learning for Social Science	<b>2019.9 - present</b>
<b>Central South University</b> Bachelor Degree of Engineering Department: Computer Science	<b>2014.9 - 2018.6</b>

## EXPERIENCE

<b>University of Massachusetts, Amherst</b> Developing the largest dataset of multi-lingual news article pairs with statistical active learning framework. Inferenced Causality in social feedback series with Generalized Linear Mixed Model.	<b>2019.9 - present</b>
<b>Institute for Artificial Intelligence, Tsinghua University</b> Automatically traced heterogeneous science funding and corresponding scholars with name disambiguation.	<b>2018.3 - 2018.9</b>
<b>Central South University</b> Devised robust and efficient schemes for mobile body network, vehicular network, and wireless sensor network.	<b>2016.3 - 2017.7</b>

## PROJECT

### Agenda-setting

- Embedded multi-lingual news articles with sentence-bert neural network and ridge regression.
- Extracted name entities with Spacy and Polyglot; bridged multilingual name entities through Wikipedia concepts.
- Query, filter, and refine similar news article pairs based on classifiers with similarity evaluation.
- Tuned query model, evaluate annotator performance and detect behavior (break, cheat or pretend to work) based on statistic analysis of group agreement and individual action series.
- Developed an integrated survey platform for annotators to label and discuss.
- Establish a comprehensive and detail-specified sets of Codebook, Gold-standard examples and survey with rounds of test, calibration and user feedback.

## PUBLICATION

### Multilingual Document-level Similarity

**Xi Chen**, Ali Zeynali, Chico Camargo, Fabian Flock, Devin Gaffney, Przemyslaw Grabowicz, Scott Hale, David Jurgens, Mattia Samory. Semeval, 2021.

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

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

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

**Xi Chen**, Ming Ma, Anfeng Liu. Computers & Electrical Engineering, 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, Algorithm, Probabilistic Graph Model, Natural Language Processing, Stochastic Calculus (audit)

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

**Framework:** Experienced in Pytorch and Tensorflow

## HONOR

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

Ranked global Top50 of Autochess players