

# XI CHEN

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## EDUCATION

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

## EXPERIENCE

<b>University of Massachusetts, Amherst</b> Developing the largest dataset of annotated multi-lingual news article pairs. Inferenced Causality in social feedback series with Generalized Linear Mixed Model.	2019.9 - present
<b>Institute for Artificial Intelligence, Tsinghua University</b> Traced heterogeneous science funding and corresponding scholars.	2018.3 - 2018.9
<b>Central South University</b> Devised robust and efficient communication for mobile body area network. Devised epidemic routing for vehicular networks with taxi trajectory. Devised adaptive energy equilibrium for wireless sensor network.	2016.3 - 2017.7

## FEATURED 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 in the large database based on similarity evaluation.
- Develop 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.
- Tune 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.

## 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