

# Kaixin (Mayer) Ma

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## EDUCATION

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**Emory University**, Atlanta, GA

August 2014 - May 2018 (Expected)

*Master of Science in Computer Science*

*Bachelor of Science in Computer Science (Honors) & Bachelor of Science in Applied Mathematics*

Cumulative GPA: 3.82/4.00, Major GPA: 3.87/4.00

Dean's List Fall 2015

**Relevant Coursework:** Artificial Intelligence, Natural Language Processing, Machine Learning, Data Structure, Algorithms, Operating System, System Programming, Compiler Construction, Optimization Theory

**Languages:** Python, Java, C, C++, MATLAB, Assembly, Scheme, HTML, CSS

**Tools & Frameworks:** TensorFlow, Keras, Theano, Lasagne, TFLearn, Elasticsearch, Flask, Linux, Hadoop, Spark

## PUBLICATIONS & PROJECTS

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**Text-based Speaker Identification on Multiparty Dialogues Using Multi-document CNN.**

2017

Authors: **Kaixin Ma**, Catherine Xiao, Jinho D. Choi. *In proceedings of the 55<sup>th</sup> Annual Meeting of the Association for Computational Linguistics: Student Research Workshop, ACL: SRW'17, Vancouver, Canada*

**Sentence Completion:** Research on identifying anonymized entity in cloze-style question by reading dialogue

**HOCA OS:** A micro kernel consisting trap, interruption, memory management and process synchronization modules

**C-- Compiler:** An end-to-end compiler for a language consisting a subset of context-free grammar of C

**Perfect Number Finder:** An inter-machinery multi-processes multi-threads system to compute perfect numbers

## EXPERIENCE

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**Emory Natural Language Processing Lab**

Spring 2016 - Present

*Researcher*

Atlanta, GA

- Develop attention based models for machine sentence completion tasks on transcripts of TV shows
- Built text-based Multi-Document Convolutional Neural Networks to classify speakers in multi-party dialogue
- Designed heuristics to detect and correct the entity labels in dialogue data missed by Name Entity Recognizer

**Emory University Technical Support**

Summer 2017

*Technician Assistant*

Atlanta, GA

- Ensured CS lab system stability by testing and debugging the updated software from CentOS to Ubuntu
- Assisted students with virtual environment set-up and customized package installation

**Singapore Institute of Manufacturing Technology**

Summer 2016

*Software Engineer Intern*

Singapore

- Created pre-processing algorithm in Pig to extract features and produce effective representation of raw data
- Implemented supervised classification models in Spark to cluster the signals of crack detection system
- Organized presentations to demonstrate classified signals and analysis of results to supervisor

## COMMUNITY ENGAGEMENT

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**CS 450/551 System Programming**

Fall 2017 - Present

*Teaching Assistant*

Atlanta, GA

- Generate bash scripts to automate homework collection and solutions testing procedure
- Hold help sessions to teach students the usage of debugging software and resolved questions

**Emory Equestrian Team**

Fall 2015 - Present

*Point Rider of Class 1*

Atlanta, GA

- Won 2<sup>nd</sup> place out of 30 riders in the walk-trot group at the Auburn University IHSA Show
- Secure safety of disabled riders by acting as Horse-leader and Side-Walker during volunteer therapy sessions

## ADDITIONAL SKILLS AND INTERESTS

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*Language:* Native in Mandarin | Bilingual proficient in English | Intermediate Japanese

*Artistic Skills:* Level 10 piano Certificate by Central Conservatory of Music