# **CONGZHENG SONG**

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## **EDUCATION**

## Emory University, Atlanta, GA

2012 - 2016

Bachelor of Science in Computer Science with Highest Honor

GPA: 3.96

Thesis: Using Deep Recurrent Neural Networks to Estimate Influenza Prevalence from Mobile Phone Records

## RESEARCH EXPERIENCE

## **Undergraduate Research Assistant**

2015 - 2016

Department of Math & CS, Emory University

Adviser: Prof.Ymir Vigfusson

- ♦ Extracted a set of metrics to describe human behavior from mobile phone records.
- Developed a deep learning model for individual sickness prediction given behavioral features.

## **Undergraduate Research Assistant**

2015 - 2016

Department of Bioinformatics, Emory University

Adviser: Prof.Lee Cooper

- ♦ Developed a neural network combining with Cox regression for survival analysis.
- ♦ Applied covolutional neural network in cancer cell image classification.

## **Summer Research Internship**

2015

Department of Computer Science, UC Irvine

Adviser: Prof.Sharad Mehrotra

- Developed a web framework for collecting, querying and visualizing sensor data.
- Involved in implementing backend server modules to handle user's request for processing sensors' data on multiple platforms.

#### **Undergraduate Research Fellow**

2014 - 2015

Institute for QuanTM, Emory University

Adviser: Prof.Clifford Carrubba

♦ Developed a program for collecting vote from Mexican government's documents.

#### **PUBLICATIONS**

- 1. Safoora Yousefi, **Congzheng Song**, Nelson Nauata, Lee Cooper. Learning Genomic Representations to Predict Clinical Outcomes in Cancer. In International Conference on Learning Representation Workshop (ICLR), San Juan, Puerto Rico, 2016.
- Erik Reinertsen, Niclas Palmius, Congzheng Song, Leon Danon, Gudrun Saemundsdottir, Olafur Magnusson, Gari D Clifford, Ymir Vigfusson. Mobile Phone Activity and Population Movement During an Influenza A (H1N1) Outbreak in Iceland. In Sleep Medicine and Chronobiology Summer Schools Poster Session, Oxford, UK, 2015.

#### TEACHING EXPERIENCE

## **Undergraduate Teaching Assistant**

2013 - 2014

Department of Chemistry, Emory University

Adviser: Prof.Karl Hagen

- ♦ Helped students with problems they occurred during lab experiments.
- ♦ Taught students the basic rules for chemistry lab.

## **AWARDS**

Trevor Evans Award	2016
Deborah Jackson Award	2015
Dean's List	2012 – 2016

## **SKILLS**

Languages: Chinese (Native), English (Professional), Japanese (Basic)

Programming and Scripting Languages: Python, Java, C, JavaScript, Matlab, LATEX

Software and Tools: Theano, Node.js, MongoDB, PostgreSQL

## SELECTED COURSEWORK

**Computer Science**: Natural Language Processing, Data Mining, Artificial Intelligence, Theory of Computing, Competitive Programming, Computer Security

**Mathematics**: Probabilities and Statistics, Partial Differential Equations, Numerical Analysis, Optimization Theory, Differential Equations, Discrete Structures, Linear Algebra

Last Update: 24th April, 2016