CONGZHENG SONG

605 Asbury Cir   (678)-882-8741
Emory University   csong27@outlook.com
Atlanta, GA, 30322   http://csong27.github.io

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.

2. 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