

CONGZHENG SONG

Curriculum Vitae

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CONTACT

301 Gates Hall
Cornell University
Ithaca, NY, 14850

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EDUCATION

Cornell University, Ithaca, NY 2016 – present
PhD student in Computer Science
Research Interests: Security and Privacy in Machine Learning

Emory University, Atlanta, GA 2012 – 2016
Bachelor of Science in Computer Science with Highest Honor
Thesis: *Using Deep Recurrent Neural Networks to Estimate Influenza Prevalence from Mobile Phone Records*

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.

RESEARCH EXPERIENCE

Graduate Research Assistant 2016 – present
Department of Computer Science, Cornell University Adviser: Prof. Vitaly Shmatikov
∞ Exploring privacy leakage in machine learning models.

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 convolutional 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.

TEACHING EXPERIENCE

CS 3410 Graduate TA

Department of Computer Science, Cornell University

Fall 2016

Adviser: Prof. Anne Bracy

Chem 141 Undergraduate Lab TA

Department of Chemistry, Emory University

Fall 2013

Adviser: Prof. Karl Hagen

AWARDS

∞ Trevor Evans Award

2016

∞ Deborah Jackson Award

2015

∞ Dean's List

2012 – 2016

SKILLS

Programming and Scripting Languages: Python, Java, C, JavaScript, HTML & CSS, \LaTeX

Software and Tools: Tensorflow, Theano, Matlab, R studio, Node.js, MongoDB, PostgreSQL

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

SELECTED COURSEWORK

Computer Science: Analysis of Algorithm, Bayesian Machine Learning, Advanced Programming Languages, Natural Language Processing, Data Mining, Artificial Intelligence, Theory of Computing, Discrete Structures, Competitive Programming, Computer Security

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