

Hongfang Lu

Ph.D. Candidate in MSE

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[piecesofreg09.github.io](https://github.com/piecesofreg09)

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Programming Languages

Proficient:

Python, C/C#, Matlab

Familiar:

JavaScript, HTML, CSS

JAVA, Swift

JQuery, Bootstrap

Libraries and Softwares

TensorFlow, Keras

Mathematica, Matlab, Xcode

GitHub

SQLite, Spark, Hadoop, Pig

Illustrator, Photoshop, Premiere

Rhinoceros, CAD, Solidworks

Skills

Strategic Planning

Self-study

Problem solving

Communication

Collaboration

Critical and Logical Thinking

Mathematics and Statistics

Hongfang (Winston) Lu, Ph.D. Candidate in Materials Science and Engineering at Georgia Tech. Research focused on computer simulation. A programmer skilled in Unity (C#), Python and Matlab. Enjoy problem-solving oriented and challenging projects.

Projects

Rotanect It | Developer, designer | March 2016

Published 2D iOS board game developed based using Unity in C#.

Sole developer of algorithms, scene design, UI design and persistence system. Familiar with the process of development and publishing through Apple App Store.

Bookworms | Developer | Spring 2018

Goodreads inspired book exploration and **recommendation system**, with d3 visualization.

Course project of Data and Visual Analytics. Design and implementation of Association Rule Mining, data collection and cleaning, Python packaging, debugging, poster design and documentation. Improvement of visualization using d3 is under way.

Ph.D. Research at Georgia Tech:

Amorphous Material Modelling | 2013 – current

This work uses MATLAB to build a **mathematical model** of physical material and analyze various behaviors shown in a deformation process.

Education

Coursera, Deep Learning Specialization, 2018

Georgia Institute of Technology, Atlanta, GA

Ph.D. Candidate in Material Science and Engineering, 2016 - current

GPA: 4.0, selected courses: High Performance Computation (A), Data and Visual Analytics (A), Awarded Christopher Sanders Endowed Fellowship

Tsinghua University, Beijing, China

Ph.D. Candidate in Material Science and Engineering, 2013 - 2016

Tsinghua University, Beijing, China

Bachelor of Science in Mechanical Engineering, 2009 - 2013

GPA: 90 / 100, Skills learned: C, JAVA, MCU

Outstanding Undergraduate Student (100 / 3600)

Interests

Reading classics literature

Solving problems, drawing, weightlifting, sudoku