

## Education

### The University of Texas, Austin

Overall GPA: 3.91  
Bachelor of Science, Computer Science, Turing Scholars Honors  
Master of Science, Computer Science

December 2015  
May 2017

## Technical Skills

<b>Proficient in:</b> Python, Java	<b>Tools:</b> Git, JIRA
<b>Comfortable with:</b> C/C++, HiveQL	NumPy, SciPy, matplotlib
<b>Exposure to:</b> R, MATLAB, HTML/CSS/JavaScript, SQL	Apache Hadoop, Apache Hive

## Experience

**Apple Inc.**, Applied Machine Learning, Intern (*Cupertino, CA*) Summer 2015

- Improving product recommendations on the Apple Online Store

**Applied Research Laboratories**, Space & Geophysics Lab, Honors Scholar & Researcher (*Austin, TX*) Summer 2013 – Spring 2015

- Implemented and evaluated new algorithms for modeling the ionosphere
- Analyzed large amounts of data from GPS satellites with an emphasis on data visualization

**Apple Inc.**, iCloud Application Engineering, Intern (*Cupertino, CA*) Summer 2014

- Designed and prototyped a cluster management system that auto-scales in response to resource demand
- Proposed new architecture for a specific application to make use of this new auto-scaling infrastructure

**UT Engineering Department**, Tutor (*Austin, TX*) Spring 2013

- Selected by professor to tutor his Introduction to Chemical Engineering Analysis course
- Worked with students individually and in groups to assist with understanding abstract concepts

**Institute for Advanced Technology**, Science and Engineering Intern, Student Researcher (*Austin, TX*) Summer 2011

- Studied and analyzed blast characteristics of electric arc discharges in air
- Presented formal, comprehensive report to panel of judges; awarded honorable mention

## Projects

**Fifteen Puzzle Game AI** Fall 2014

- Used multiple A\* searches in serial to tackle enormous state space
- Compared different search strategies and methods of dividing the search into phases

**The Pacman Projects**, learn and implement fundamental Artificial Intelligence concepts Spring 2014

- A\*, minimax, expectimax search; reinforcement learning; classification; probabilistic inference
- Won first place in the Capture the Flag tournament among other honors AI students

**PolyDrop**, a game for the Leap Motion Controller that won first place in a hackathon competition Spring 2014

- Players catch falling polygons and balance them on a platform controlled with their hand
- Has over 40,000 downloads on the Airspace App Store

**LetterPress Game AI** Winter 2012

- Designed effective evaluation function to assign a value to any game state
- Graphically displays best possible game states one turn into the future

**Physics Simulator**, models gravitational motion and elastic collisions Spring 2012

- User plays with gravity, modifying particles and gravitational fields with simple GUI
- Helps visualize conservation of momentum and the inverse square law

## Research

**Intelligent Feature Extraction for Egocentric Video Classification** Fall 2014 - present

- Working with Dr. Kristen Grauman to develop a thesis in the areas of computer vision and machine learning

## Awards

Winner of Compare Metrics/Leap Motion hackathon	2014
Honors Scholar of College of Natural Sciences	2013 - 2015
Honors Scholar of Cockrell School of Engineering	2013