Changyu Yan

Sproul Hall 371, 330 De Neve Dr. Los Angeles CA 90024 | changyannnnnn@gmail.com

EDUCATION

University of California, Los Angeles   **Los Angeles, CA**
Major: Mathematics of Computation   Minor: Statistics   *September 2015 - June 2019*
- Awards: Dean's Honors List, June 2016, June 2017
- Relative Coursework: Software Construction Laboratory, Design and Analysis of Algorithms, Computer Systems, Introduction to Computer Science, Artificial Intelligence, Introduction to Statistical Programming in R, Probability Theory, Mathematical Statistics, Numerical Analysis, Discrete Structures, Graph Theory, Differential Equations, Linear Algebra, Calculus

Babson College   **Babson Park, MA**
Entrepreneurship Summer Program   *July 2014 - August 2014*
- Took various summer classes on entrepreneurship with 70 students from 25 countries.
- Worked on the New Venture Initiative mock business project with Professor Peter Bagley
- Worked on the Triple Bottom Line project with Professor Sinan Erzurumlu

Cornell University   **Ithaca, NY**
Summer College Engineering Program   *June 2013 - August 2013*
- Courses Taken: Introduction to Computing using Python; Relativity, Cosmology, and Black Holes; Calculus for Engineers

SKILLS & ABILITIES

- Proficient in C++ and Python programming languages
- Proficient in Microsoft Word, Excel, and PowerPoint
- Familiar with R, MATLAB, HTML, and Swift
- Experience in C, Lisp, JavaScript, Linux Shell Script, and Assembly Language
- Familiar with Probability Theories and Common Statistical Models
- Familiar with Machine Learning Algorithms
- Experience with common software construction tools such as the gdb debugger, GNU Coreutils, and Emacs
- Familiar with GitHub
- Languages: Chinese Mandarin (Native), English (Fluent)

PROJECTS AND PRESENTATIONS

- **Time Series Analysis in Finance (**Stats 199**)**   *April 2018 - Present*
- **Morphological Active Contour Models (**Computer Vision Personal Paper Presentation**)**   *March 2018*
- **Left-Ventricle Segmentation by Deep Learning and Active Contours (**Computer Vision Group Project**)**   *March 2018*
- **Shuriken (**A Naruto-themed video game built using PyGame**)**   *February 2018*
- **Concentration (**Concentration game implemented using Swift**)**   *November 2017*
- **Iceman (**Video game implemented using C and C++**)**
                                                                                                                                  August 2017

WORK EXPERIENCE

Center for Vision, Cognition, Learning, and Autonomy (VCLA) at UCLA   **Los Angeles, CA**
Undergraduate Researcher   *June 2017 - October 2017*
- Worked with Dr. Quanshi Zhang on Interpretable Convolutional Neural Network (CNN) research
- Designed and managed Amazon Mechanical Turk sites using HTML and Excel, for collecting research data
- Worked with MATLAB and the Matconvnet toolbox, which implements CNN for computer vision application
- Created and managed functions and trained CNN models for various categories of input files
- Took Machine Learning 15-781 online course from Carnegie Mellon University

UCLA Neurology at the David Geffen School of Medicine   **Los Angeles, CA**
Lab Assistant   *September, 2016 - February, 2017*
- Worked with Dr. Jason Hinman and the team on Microvascular Stroke experiments
- Manufactured Microfluidic Chips needed for the research
- Analyzed crucial data using Excel and other software

Kayne Anderson Capital Advisors   **Los Angeles, CA**
Accounting Intern   *September, 2016 - December, 2016*
- Ran "daily trade reports" using accounting software Geneva for distribution to Execs and PM's by EOD
- Calculated individual IRR for high net worth clients
- Assisted Accounts Payable with processing invoices, allocation schedules, and contacting vendors
- Performed tax basis calculation for Hedge and Private Equity investments
- Organized and distributed capital call and distribution letters for individual investors