

Yuhan Liu

UCLA Computer Science & Engineering and Mathematics Major
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EXPERIENCE

Researcher - PARISlab at UCLA

Jan, 2019 - present

github.com/yliu1021/Sorption-Modeling

Language: Python, C++ / Technology: Keras, TensorFlow

- Developing & researching ways to tackle inverse design problems related to porous materials
 - Optimized preexisting sorption modeling simulation code (~80-100x speedup)
 - Developed, benchmarked, and implemented various deep learning techniques for training generative models

Project Lead/iOS Developer - Nova, Tech for Good

Oct, 2019 - present

Language: Swift / Technology: iOS SDK, SwiftUI, Git/Version Control

- Streamline other nonprofit organizations' work by implementing technological solutions for their problems
 - Designed and developed an iOS app for The Giving Spirit that allows their volunteers to better coordinate donations and kit distributions
 - Worked with Swift/SwiftUI and iOS design, MVC, Storyboards, auto layout, MapKit, CoreLocation, Firebase
 - Collaborated with designers and other coders; delegated work

EDUCATION

University of California, Los Angeles

Sept, 2018 - Jun, 2022

Bachelor of Science in Computer Science & Engineering

Bachelor of Science in Mathematics

GPA: **3.848**

Relevant Computer Science Coursework:

Introduction to Formal Languages and Automata Theory, Systems and Signals, Digital Design Lab, Computer Systems Architecture, Machine Learning, Computer Network Fundamentals, Artificial Intelligence, Programming Languages, Operating Systems, Algorithms and Data Structures

Relevant Mathematics Coursework:

Linear Algebra, Real/Complex Analysis, Systems of Differential Equations, Probability Theory

PROJECTS

Imagepedia

github.com/yliu1021/Imagepedia

Language: Python, JavaScript, HTML

Technology: Flask, Google Vision API

- Classify photos and detect features to organize library
- AIHacks winning entry

Discord bot

github.com/yliu1021/LIHacks

Language: Java

Technology: Wit, Yelp, Wunderground

- NLP to help users make plans
- LIHacks winning entry

Hand Gesture Recognition

github.com/yliu1021/HandGesture

Language: Python

Technology: TensorFlow, Numpy, Data Science

- Hand gesture recognition
- Hack on the Hill winning entry

LANGUAGES

Python	6 years	●●●●●
C	6 years	●●●●○
C++	5 years	●●●●○
Swift	5 years	●●●●○
Objective-C	4 years	●●●○
Java	2 years	●●○○○
JavaScript	1 year	●○○○○
HTML	1 year	●○○○○

FRAMEWORKS

iOS SDK	7 years
TensorFlow/Keras	4 years
Django/WebDev	1 year

AWARDS & MISC

Putnam Score 21

Top 478.5 out of 3,428 2019

USA Computing Olympiad

Gold Division 2017, 2018

USA Physics Olympiad

Honorable Mention 2018

USA Physics Bowl

1st regional (NY) / 66th global 2018

USA Chemistry Olympiad

Nationals Qualifier 2017

UCLA ICPC Team Member

competitive coding team 2019