

Matthew Tang

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Education

University of California, Berkeley

2018 – 2022

B.S. Electrical Engineering and Computer Science (EECS) | GPA 4.0

Regents' and Chancellor's Scholar (top 2%)

Relevant Coursework (*Spring 2020)

[CS170] Efficient Algorithms [CS61B] Data Structures & Algorithms [EECS126] Probability & Random Processes*
[CS188] Artificial Intelligence [CS70] Discrete Math & Probability [EE16A/B] Designing Information
[CS186] Databases* [CS61A] Structure of Computer Programs Devices & Systems I and II

Projects

Universal Subtitler – Cal Hacks 2019

- Generate subtitles in any language for videos using Google Speech to Text & Translate API
- Back-end: JavaScript, Frontend: JavaScript (Chrome Extension), Team size: Four

ParkMe – HackMIT 2019

- Crowdsourced parking availability app using computer vision & geocoding for curb detection
- Back-end: JavaScript & Python, Frontend: React, Team size: Four

ShareFund – LA Hacks 2019

- Democratic hedge fund web app using algorithmic trading and machine learning
- Back-end: JavaScript & Python, Frontend: React, Team size: Three

Aux4All – Cal Hacks 2018

- Egalitarian song queue & voting system to bypass the limitation of single Bluetooth connection
- Back-end: JavaScript, Frontend: React Native, Team size: Three

Experience

Capital One – Software Engineer Intern Summer 2019

- Incoming software engineer intern at McLean, Virginia

USC Viterbi Interaction Lab – Summer Undergraduate Researcher 2019

- Developed a novel model to improve human trust and cooperation with socially-assistive autonomous robotic systems.
- Created an action selector for the robot to estimate human beliefs and take actions to correct them using reinforcement learning for dynamic environments with uncertainty.

Golden Gate Science Olympiad – Director of Operations 2018 – Present

- Host annual Science Olympiad invitational with 23 events for 1000+ high school students.
- Improve and update website, develop new resource center page using Jekyll, oversee operations and room reservations, meet weekly for planning purposes. 100+ hours service.

Publications

- Matthew Rueben, **Matthew Tang**, Eitan Rothberg, and Maja Mataric, "Helping Users Develop Accurate Mental Models of Robots' Perceptual Capabilities: A First Approach" SCRITA held in conjunction with IEEE International Conference on Robot & Human Interactive Communication. (New Delhi, India) **2019**
- **Matthew Tang**, Michael Chu, and Michelle Khine, "Design & Fabrication of Nanowrinkled Thin Film Sensors for a Finger Flexion Assessment Glove" AAAS Annual Conference. (Austin, TX) **2018**
- **Matthew Tang**, Michael Chu, and Michelle Khine, "Fabrication & Evaluation of Gold Dry Electrodes in a Long-Term Wireless Heart Monitor System" AAAS Annual Conference. (Boston, MA) **2017**

Awards

- Best Use of Google Cloud API 3rd Place at Cal Hacks (110 teams in category) **2019**
- Dean's Honors List, Edward E. Kraft Award (Freshman 4.0 GPA) **2019**
- MIT Beaver Works Autonomous Robot Car Grand Prix: 2nd Place (13 teams total) **2017**

Activities

Eta Kappa Nu Honors Society, Berke1337 (Cybersecurity), Regents/Chancellor's Scholars Assoc

Skills

Python, Java, JavaScript, React, ROS, RViz, LaTeX, Git, C, MATLAB, Arduino, AutoCAD