

Richard Chen

Undergraduate Student - University of California, Berkeley

@ richard.chen169@berkeley.edu

+1 (301) 661-1933

Berkeley, California

in linkedin.com/in/richardchen169

Formal Education/Degree

BA in Computer Science and Physics

University of California, Berkeley

August 2017 - Ongoing

Berkeley, CA

GPA: 3.71/4

Relevant Coursework: Machine Learning, Deep Neural Networks, Computer Vision and Computational Photography, Probability and Random Processes, Efficient Algorithms and Intractable Problems, Quantum Mechanics, Computational Color

Experience

Goldman Sachs, Quantitative Investment Strategies

Summer Analyst

Incoming Summer 2020

New York, NY

- Employing quantitative techniques to improve existing investment strategies

Berkeley Artificial Intelligence Research (BAIR)

Undergraduate Researcher

January 2020 - Ongoing

Berkeley, CA

- Implementing deep learning architectures and introducing symmetry constraints to improve facial landmark detection and facial intrinsics

Lawrence Berkeley National Laboratory (LBNL)

Undergraduate Researcher

May 2018 - Ongoing

Berkeley, CA

- Analyzed crystal efficiency on gamma ray spectrometer GRETINA using ROOT and C++
- Designing project to test deuteron cross-section interactions with Boron-10 and Boron-11

Rokid R-Lab

Computational Imaging Intern

May 2019 - August 2019

San Carlos, CA

- Implemented deep learning CNN for Super Resolution in camera optics to improve picture quality by 2x
- Created multi-frame Super Resolution with sub pixel registration
- Designed forwarding image pipeline model of camera with Bayer pattern

NBA Dallas Mavericks

Basketball Analyst Intern

January 2019 - May 2019

Dallas, TX

- Created visualization tool for player shooting trends
- Built and deployed web application on AWS for data analytics team
- Employed statistical techniques to interpret trends in Dallas players eagle tracking data

Student Organizations

Immersive Semi-Autonomous Aerial Command System (ISAACS)

Radiation Visualization Product Manager

August 2019 - Ongoing

- Implemented real time radiation streaming onto Microsoft HoloLens
- Supervised by Professor Kai Vetter and Professor Allen Yang in collaboration with Lawrence Berkeley National Laboratory

Honors and Publications

- Journal of Thermal Analysis and Calorimetry Publication Co-author 2019
 - "Sample Pattern and Temperature Distribution in Nanocalorimetry Measurements"
- 1st place in Probability and Random Processes class Final Project 2019
 - Designed AI to play out Settlers of Catan, top scorer in over 80 groups
- Regeneron Science Talent Search Competition (Formerly Intel STS), Semifinalist (2017)

Areas of Interest

- Machine Learning
- Computer Vision
- Big Data

Skills and Libraries

- | | |
|----------|--------------|
| • Python | • Tensorflow |
| • Java | • Pytorch |
| • Matlab | • Pandas |

Hobbies

- | | |
|--------------|---------------|
| • Basketball | • Photography |
|--------------|---------------|