

# Ziyi (Andy) Peng

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## Education

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- Sept. 2018  
- June 2022      University of California, Los Angeles  
B.S. Computer Science and Engineering • GPA: 4.00  
- Coursework (taken and current): Intro to CS I & II (Intro to C++ & Data Structures/Algorithms), Multivariable Calculus, Linear Algebra, Discrete Structures  
- Misc. Activities: ACM, Running Club
- Aug. 2014  
- June 2018      Foothill High School - Pleasanton, CA  
Valedictorian • GPA: 4.59 W, 4.00 UW  
- Activities: Math Club (President), MathCounts Coach Club (VP, Volunteer Coach)

## Experience

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- Jan. 2019  
- Present      PARISlab at UCLA - Los Angeles, CA  
Undergraduate Research Assistant  
- Working on machine learning models for the sorption of porous materials
- June 2018  
- Aug. 2018      Wynd Technologies, Inc. - Redwood City, CA  
Backend Software Development Intern, Intern Team Lead  
June 2017  
- July 2017      - Doubled extent of company's dynamic air quality database, implementing additional coverage for pollen and weather data  
- Maintained Node.js/MongoDB scraping backend, updating scripts to ES6 and writing company tutorials and documentation
- July 2017  
- June 2018      Perception Science Internship - Berkeley, CA  
Program Participant, Research Assistant  
- As a group of 4, coded and reported on 2 experiments using MATLAB  
- Designed JavaScript-based interactivity for Qualtrics surveys and online experiments

## Activities/Honors

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- Sept. 2018  
- Present      Unmanned Aerial Systems at UCLA (UAS@UCLA)  
Vision Subteam  
- Working on improving machine learning models using CNNs for target identification/obstacle detection; results will be tested in the AUVSI SUAS drone competition  
- Refactored Python/Socket.IO vision server to implement modularity
- Sept. 2018  
- Present      Bruin Spacecraft Group  
Project Spartan Software Subteam, Admin Team  
- Working on a testing system for this year's modular payload/avionics cubesat  
- Helping maintain club website (bruinspace.com) using Handlebars templating
- Spring 2016/17      USA Mathematical Olympiad Qualifier
- Spring 2017      USA Computing Olympiad - Platinum

## Skills

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Languages      Java, Python, C++, HTML/CSS, JavaScript/Node.js, MATLAB, LaTeX  
Other          Git, Socket.IO, Handlebars, MongoDB, Qualtrics