

# Peter Hong

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High school senior and aspiring social entrepreneur. Passionate about **business** and **technology**.

## EXPERIENCE

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### Brain Health Alliance, Educational Research Program

Scientific Computing Research Intern; [www.bhavi.us](http://www.bhavi.us)

- Worked under the mentorship of Dr. Carl Taswell, MD, PhD and Mr. Koby Taswell to complete multiple research projects in the fields of computer science, semantic web/knowledge engineering, data science, and biomedical engineering
- Co-authored two research manuscripts for publication in [IEEE TransAI 2020](#) and [Brainiacs Journal of Brain Imaging and Computing Sciences](#)
- Spearheaded student meetings in a historically uncollaborative program and actively participated in mentor-led meetings
- Conducted extensive literature reviews on semantic web and neurodegenerative diseases and designed OWL 2.0 ontology outlining neurodegenerative diseases (Alzheimer's, Huntington's, Parkinson's, etc.)
- Worked with team of 3 to create fastest running BibTeX parser using C# in Visual Studio Code
- Developed plagiarism detection software and OWL ontologies to help preserve integrity in science
- Provided feedback to help develop software application that allows users to input records into directories to identify, describe, and locate/link things on the internet, web, and grid
- Completed quarterly progress reports and advanced quarters in summer, fall, and winter

### Fusion Insider

Founder and Editor-in-Chief; [www.fusioninsider.org](http://www.fusioninsider.org)

- Founded online publication covering business and technology topics
- Responsible for managing team of 25+ writers and editors
- Utilize various Analytics services to track thousands of monthly viewers
- Design website's layout/organization and manage organization email for recruitment purposes

### CoastalHacks Hackathon

Co-Organizer; [www.coastalhacks.com](http://www.coastalhacks.com)

- Co-founded and organized an annual hackathon offering students an opportunity to learn computer programming skills, compete against peers, and thrive in a community of like-minded students
- Led sponsorships team to acquire \$80,000 in prize value from local businesses and large companies by cold emailing
- Helped advertise hackathon to acquire 400+ student participants, 10 experienced judges, and corporate sponsors/mentors (co-organized several free workshops)

### UC San Diego Department of Economics

Summer Research Assistant; [UC San Diego](#)

- Worked with UCSD Economics PhD Candidate Radhika Goyal on digitizing Indian Census data for a project studying the impact of local jurisdiction size and the distance of village headquarters on the provision of local goods
- Compiled a large dataset of 3,500 data entries and inspected large volumes of data sheets to extract relevant information

### CCA Pulse Magazine

Online Editor-in-Chief; [Pulse Magazine](#)

- Manage individual deadlines of all staff members for online magazine presence
- Wrote full-length pieces for CCA Pulse Magazine and uploaded articles on online website on a daily basis

### Raven Investors

Founder and Student Team Leader; Wharton HS Investment Competition

- Lead team of 5 students in international investment competition in Region 3
- Ensure quality of investment strategies and writing in [mid project](#) and [final report paper](#)
- Constantly employ economic data and trends to predict volatility of securities

### Recreational Youth Basketball Team/Personal Trainer

Head Basketball Coach; Master Sports Youth Basketball League

- Organize intense weekly workouts/practices (high-school level intensity/difficulty)
- Remind parents and players of weekly game times and locations
- Coached team to 2 finals championship wins
- Develop personalized workouts for youth basketball players in Carmel Valley area

## Research Projects

*Research Mentor; Independent*

- Advise younger students with projects in the fields of semantic web, computer science, and data science
- Teach students how to write papers in LaTeX using TeXstudio and cite sources with BibLaTeX using JabRef

## Precalculus Honors Class

*Peer Tutor; Canyon Crest Academy*

- Assist in grading students' assignments and help teacher with plans
- Actively answer any questions that students have regarding specific course material or high school study management skills

## SELECTED HONORS/AWARDS

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- [\*\*IEEE 2nd International Conference on Transdisciplinary Artificial Intelligence\*\*](#) Co-authored paper published in international, peer-reviewed conference on AI and computer science track
- [\*\*Brainiacs Journal of Brain Imaging and Computing Sciences\*\*](#) Co-authored paper published in peer-reviewed scholarly journal (inaugural issue)
- [\*\*Advances in Science, Technology and Engineering Systems Journal\*\*](#): Invited for publication in international, peer-reviewed journal
- [\*\*BHAVI 2020-12 Research Symposium\*\*](#): Youngest researcher invited to present in the conference
- **2020 Wharton Global High School Investment Competition**: Region 3 Top 25 team in North America, Europe, Africa, and Oceania
- **Other**: Freshman Athletic Award (Basketball Team), UC ELC Scholar (Top 9% in Class), Simons Research Program Nominee

## EDUCATION

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### Canyon Crest Academy, High School Diploma

San Diego, CA  
June 2018 - Aug 2022

**Relevant STEM Courses:** AP Calculus AB, AP Calculus BC, Calculus III, Linear Algebra, AP Computer Science Principles, AP Computer Science A, AP Physics 1, AP Physics 2, AP Statistics

**Relevant Humanities/Social Sciences Courses:** AP Macroeconomics, AP Microeconomics, AP US Government and Politics, AP World History, AP US History, AP English Language, AP English Literature, Advanced Journalism

**School Clubs/Organizations:** Stocks and Investment Club (President), Asian American Student Association (Vice President), Fantasy Sports Club (Treasurer), School Basketball Team/San Diego Spartans Club Basketball (Starting Guard), Programming and Problem Solving Club (Member)

**Outside Organizations:** Institute of Electrical and Electronics Engineers (Student member), IEEE Computer Society (Member), The LEAGUE of Amazing Programmers (Student)

## SKILLS AND INTERESTS

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- **Technical Skills:** LaTeX, C#, Python, Java, HTML/CSS, GitHub, Git, Protégé
- **Interests:** Reading research papers, Running/Swimming/Biking, Entrepreneurship, Technical Writing