

Peter Hong

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

EXPERIENCE

Brain Health Alliance, Educational Research Program

Computational Science Research Intern; 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

- 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

- 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

- [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, Accepted to WIT (Whatever It Takes) Program, Accepted to UCSD Research Experience for High School Students (REHS)

EDUCATION

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

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