Kevin Mao

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ACADEMICS

Columbia University: School of Engineering and Applied Science: *First-year*   **2017-present**
- *Bachelors of Science:* Computer Science Major, Biomedical Engineering Minor
- Cumulative GPA: 3.5

Staten Island Technical High School: *Graduated*   **2013-2017**
- Cumulative Average: 98.5, Cumulative Weighted Average: 102.91
- SAT: 760 Math, 710 Verbal, 770 Writing

Skills: Python, Java, Git/Github, HTML, CSS, MatLab, Microsoft Office

RESEARCH/ENGINEERING PROJECTS

Paean Health: *Columbia SEAS Design Challenge Winner*   **2017-present**
- Co-founded Paean Health, a start-up that won $2,500 in funding from Columbia Engineering Entrepreneurship
- Developing the X-Pouch, a small insert for medication bottles that deactivates unused pills for safe disposal

Neurotrauma and Repair Lab at Columbia University   **2017-present**
- Conducting research on concussion-induced phosphorylated tau and its similarities to Alzheimer's tau in rats
- Fed brain tissue cultures, conducted tissue staining analyses, and analyzed papers

NYU Langone Medical Center: *Lin Lab*   **2015-2017**
- Submitted to the Regeneron Student Talent Search, and received the STS Research Report Badge
- Conducted research on the hypothalamus's ability to regulate innate social behaviors, such as aggression
- Analyzed the behavior of mice using video recording, fiber photometry data, and fluorescent imaging

The Effect of Animal Assisted Activities on Vulnerable Populations   **2014-2015**
- Submitted to the NYC Science and Engineering Fair and received a Special Award
- Conducted a project that found pet interactions significantly reduced stress in the elderly patients

College of Staten Island: *Tang Lab*   **Summer 2015**
- Contributed to a paper published in the journal, *Physical Chemistry Chemical Physics*
- Participated in research on the effect of ions on the NMR spectra of bicelles (plasma membrane mimetics)

LEADERSHIP EXPERIENCE

Robotics – Brain Computer Interface Project: *Project Lead*   **2017-present**
- Developing an interface that interprets EEG brain signals using machine learning

Biomedical Engineering Society: *Organizational Committee Member, Web Developer*   **2017-present**
- Organizing events to expand community involvement in healthcare, such as the Biotech Panel and HealthHacks
- Developed the organization's website and HealthHacks website

Tech Science Times: *President, Founder*   **2015 -2017**
- Published interesting articles in online science magazine that sparked scientific interest among student body
- Inspired peers to explore their interests by leading discussions and mentoring them in technical writing

Science Olympiad: *Biology Captain*   **2015-2017**
- Participated in Regional and State Competition in biology events, such as Protein Modeling and Invasive Species
- Tutored underclassmen in biology, organized study groups, and motivated

EXTRACURRICULARS

Columbia Pops Orchestra (Tenor Saxophone)   **2017-present**
- Arranged music for chamber ensembles and performed them at major events like Glass House Rocks

Staten Island Tech Bands: *Wind Ensemble, Jazz Ensemble, Spring Musical*   **2013-2017**
- Helped Jazz Ensemble receive the first Gold with Distinction at the NYSSMA music festival in school history