# Kenny Hoang

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## Education

**University of Pennsylvania** *Aug. 2017 - PRESENT*

- Pursuing B.S.E. in Computer Science
- Coursework: Data Analytics and Statistical Computing; Programming Languages and Techniques; Open Source Hardware and Software Systems; Math Foundation of CS; Ruby on Rails Web Dev; Statistical Inference; Managerial Economics

## Experience

**Technical Intern, Antora Energy** *May 2018 - Aug. 2018*

- Use energy grid pricing data to determine best parameters for maximum profits of solid state thermal battery
- Coding predictive modeling program in MATLAB
- Awarded Wharton Startup Internship award to help pursue work

**Nanomedicine Researcher, Penn Medicine** *Sep. 2017 - Jan. 2018*

- Developed therapeutic nanomaterials for treatment of cariogenic biofilms
- Conducted work in Penn Medicine department of Radiology in collaboration with Penn Dental School

**Nanomaterials Research Associate, NC State University** *Jul. 2016 - Mar. 2017*

- Conducted individual research project to synthesize, characterize, and apply novel nanomaterials for sustainable energy and pollutant management at NC State University
- Data analysis and visualization using OriginLab and Excel
- Culminated in 20 page research paper presented as National Finalist for the Stockholm Junior Water Prize. Paper currently in submission to academic journals (2nd author)

**Materials Science Researcher** *Oct. 2015 - May 2016*

- Project mentored by NASA engineers at Langley Research Center
- Designed, built, and tested metal-impregnated activated carbon-polymer alloys
- Calculated and optimized linear attenuation coefficient using dosimeter and data analysis software
- Presented work at research conferences and an international entrepreneurship competition

**Mathematical Modeling, Water Irrigation** *Sep. 2016 - Nov. 2016*

- Modeled various irrigation schedules and found the optimum to conserve water
- Accounted for parameters such as height of sprinklers, number of nozzles, water pressure, and combinations of vertical and horizontal movements
- Enabled water conservation for school's PEC Athletic Field

**Writing Manager, PennScience Research Journal** *Sep. 2017 - PRESENT*

- Leading team of writers at UPenn to develop feature articles for biannual publication

## Honors & Awards

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|---|---|
| 2018 | **Intel Andy Grove Scholarship**, One of 355 merit scholarships selected from thousands |
| 2017 | **Gold Medalist**, International Sustainable World Engineering Project Olympiad (SWEEEP) |
| 2016 | **Regional Finalist**, Google Science Fair, 1 of 90 projects chosen from thousands |
| 2016 | **Finalist**, Conrad Innovation Challenge, top 5 project out of hundreds from 72+ countries |
| 2017 | **HS Varsity Swim Captain**, State qualifier, 200 IM, 200 FR relay, and team Conf. champion |

## Skills

**Java | Python | MATLAB | R | HTML/CSS | Arduino**