Kenny Hoang

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Education

University of Pennsylvania *Aug. 2017 - PRESENT*

- Computer Science, GPA: 3.58
- Coursework: Probability Theory; Big Data Revolution; Computer Programming (Java); Silicon Garage (Open Source Hardware and Software Systems); Math Foundation of CS; Molecular Bio/Genetics

North Carolina School of Science and Mathematics *Aug. 2015 - May 2017*

- High School Diploma, GPA: 5.48
- Adv. Probability Models (Bayesian Statistics with R); Graph Theory and Proofs; Mathematical Modeling; Multivariable Calculus; Adv. Math Problem Solving, Computational Medicinal Chemistry

Experience

Techno-economics and Engineering 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

Engineer, Porous Activated Carbon-Polymer Radiation Shield for Spacecrafts *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

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)

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

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