MIKE YILIN DONG

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EDUCATION

CARNEGIE MELLON UNIVERSITY, PITTSBURGH, PA   MAY 2019

Bachelor of Science in Chemistry / Biological Chemistry Track

Minors in Biomedical Engineering and Human-Computer Interaction

Overall GPA: 3.92 / 4.00

Dean's List (Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017)

EXPERIENCE

DAS LAB, CARNEGIE MELLON UNIVERSITY

Research Assistant   May 2017 - Present

- Design and improve an economical device for the electroelution of nucleic acids from polyacrylamide gel pieces
- Troubleshoot effects of the device's components on the quality of yielded DNAs
- Optimize the running voltage and time for high elution yields of various DNAs
- Presented in the 2017 Rustbelt RNA Meeting

PROJECTS

FINANCIAL FEUD, SERVICE DESIGN PROJECT   FALL 2017

- Worked with PNC Bank and partnered in a team of five to design and prototype a mobile application that provides families with weekly financial challenges, which helps PNC to engage with teens and help to increase their financial literacy

DETERMINATION OF HEAVY METAL CONTENT AND ANTIOXIDANT CONTENT IN VARIOUS CHINESE MEDICAL HERBS, LAB TERM PROJECT   SPRING 2017

- Cooperated in a team of four to measure the heavy metal and flavonoid content in three Chinese medical herbs
- Prepared herb samples for instrumental analysis including UV-Vis and AA
- Performed data analysis and culminated in a team presentation

ACTIVITIES

CMU CHEME CAR

Design Chair and Member   September 2015 - Present

- Conduct research on the luminol reaction as the car's stopping mechanism
- Collaborate with other members on developing a car powered and self-stopped using chemical-reactions
- Design promotional materials, including posters and T-shirts

SKILLS

- **Laboratory:** gravimetric analysis; titrimetric analysis; UV-Vis; AA; HPLC; GC; IR; NMR; gel electrophoresis; electroelution; passive elution; desalination; lyophilization
- **Computer:** Mathematica, Matlab, Fiji, ChemDraw, Python, HTML, CSS, Django, MS Office, iWork, Adobe Creative Cloud, Sketch, Principle, Origami, InVision
- **Design:** interaction design, mobile design, web design, UX research, prototyping
- **Languages:** Mandarin (Native Speaker), English (Fluent), Japanese (Intermediate)