

# MIKE YILIN DONG

(412) 537-2016 · yilind@andrew.cmu.edu

linkedin.com/in/mike-dong-784439a2 · mike-dong.com

## 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; gel electrophoresis; electroelution; passive elution; desalination; lyophilization
- **Computer:** Mathematica, Matlab, Fiji, ChemDraw, Python, HTML, CSS, Django, MS Office, iWork, Adobe Creative Cloud, Sketch, InVision, Origami
- **Design:** interaction design, mobile design, web design, UX research, prototyping
- **Languages:** Mandarin (Native Speaker), English (Fluent), Japanese (Intermediate)