

EDUCATION

University of California, Santa Cruz, Santa Cruz, CA Sept. 2017 – Jan. 2019 (Expected)
Master of Science in **Computer Science**

University of Kentucky, Lexington, KY Sept. 2012 – Dec. 2016
Doctor of Philosophy in Food Science **GPA: 4.0**

Selected Coursework:

Data Mining and Machine Learning	Program Design	Regression & Correlation
Data Structure and Algorithms	Discrete Mathematics	Operating System

SELECTED PROJECT EXPERIENCE

PM2.5 Android App

- Designed and implemented the backend of a PM2.5 notification app.
- Designed the endpoints and implemented the server with Tornado, with data coming from several third party websites.
- Tools and skills involved: HTTP, HTML, XML, Python, Tornado, multi-threading.

Game Suites with Python

- Developed games including “Spaceship”, “Pingpong”, and “Black Jack” with python simple GUI.
- Designed the structure of the games and implemented the games.

WORKING EXPERIENCE

Chief Food Scientist in RedLeaf Biologics Inc, Nicholasville, KY Feb. 2016 – Dec. 2016

Responsibilities:

- Provide leadership and expertise to translate consumer needs into effective product designs and consumer driven innovation strategies.
- Establish technical product specifications that ensure consistent superior consumer satisfaction and work with the commercial functions to leverage our technology in the form of demonstrations, communication ideas and claims.

Major achievements:

- Filed patents for production process.
- Increased yield by 20% using new extraction method.
- Designed a series of new products when solving a problem caused by engineer.
- Made specification sheets for new products.

ACADEMIC ACHIEVEMENTS

- Institute of Food Technologists International conference: poster competition **2nd place** (out of ~250) Jun. 2014
- Graduate Student Mentoring Fellowship Merit Award (Center of Membrane Sciences, Emanated from the **Presidential Award**) May. 2014
- Institute of Food Technologists International conference: poster competition **3rd place** (out of ~300) Jul. 2013

PUBLICATIONS

- **Jiayi Yang**, Youling L. Xiong (2015). Inhibition of lipid oxidation in oil-in-water emulsions by interface-adsorbed myofibrillar protein. *Journal of Agricultural and Food Chemistry*.
- **Jiayi Yang**, Youling L. Xiong (2017). Comparative time-course of lipid and myofibrillar protein oxidation in different biphasic systems under hydroxyl radical stress. *Food Chemistry*.