

---

# Chyi Ricketts

+1 (908) 442-0207  
chyiricketts@gmail.com  
[www.linkedin.com/in/chyi-ricketts](http://www.linkedin.com/in/chyi-ricketts)

---

## EDUCATION

- |   |           |
|---|-----------|
| <b>Duke Kunshan University and Duke University Dual Degree</b>                            | May 2025  |
| B.S. in Molecular Biosciences with a Track in Genetics and Genomics                       |           |
| B.S. in Interdisciplinary Studies (Subplans: Molecular Bioscience; Genetics and Genomics) |           |
| - Cumulative GPA: 3.70  |           |
| Kunshan, Jiangsu Province, China  |           |
| <b>Hunterdon County Academies / Biomedical Sciences</b>                                   | June 2021 |
| North Hunterdon High School, Annandale, NJ  |           |
| <b>Rutgers University / Dual Enrollment</b>   | June 2021 |
| New Brunswick, NJ   |           |

---

## EXPERIENCE

- Huang Lab/ Student Research Scholar**  
May 2023 - Present Day, Kunshan, Jiangsu, China
- Streamlined the process of creating a library of prokaryotic siRNA by extraction and purification in a team of 5 (<https://doi.org/10.1038/nprot.2013.149>) followed by transfection of siRNA into HeLa cells to evaluate the extent of protein expression and toxicity
  - Developing a capstone project on creating a ML pipeline to supplement computational analysis of cell imaging
- DKU Division of Natural and Applied Sciences/ Student Worker**  
May 2023 - December 2023, Kunshan, Jiangsu, China
- Maintained regular updates and improved efficiency of the DNAS website using WordPress, js, python, HTML, and CSS: <https://dnas.dukekunshan.edu.cn/>
- IRB Barcelona - Institute for Research in Biomedicine/ Undergraduate Assistant**  
October 2022 - December 2022, Barcelona, Spain
- Evaluated the extent of cell toxicity for varying doses of several cancer drugs on eukaryotic cells
  - Handled live mice as a part of a procedure to study stem cells and its relation to cancer
- Bagnat Lab / Undergraduate Assistant**  
April 2022 - June 2022, Duke University, NC
- Investigation of protein participation in packaging and transporting nutrients in the interstitial space of zebrafish through embryo injection, maintaining mutant lines, gDNA extraction, restriction digests and gels, PCR, and fluorescent microscopy screening
- Rutgers Waksman WISE / Student Scholar**  
July 2019 - August 2019, New Brunswick, NJ
- Authored and published 4 novel DNA sequences on NCBI, isolated and analyzed from Lemna minor through PCR, RE digests, Gel electrophoresis, and bioinformatic tools (<https://www.ncbi.nlm.nih.gov/nuccore/1736276964/>)
- Raritan Headwaters Association / Volunteer**  
May 2016 - August 2021, Raritan, NJ
- Routinely monitored the chemical and biological status of local streams using ecological surveys and analyzing key chemical properties (i.e. DO, nitrates, pH, phosphates, etc.)

---

## SKILLS and PUBLICATIONS

- Python, Java, R/RStudio, HTML, CSS, Matlab, and Data Organization
- Molecular Biology and Chemistry lab safety, aseptic technique, and basic methods
- Advanced Mandarin speaking, intermediate reading and writing