

Honkit Ng

Brooklyn, NY • hng@rockefeller.edu
honkit.dev/ • [linkedin.com/in/honkit-ng/](https://www.linkedin.com/in/honkit-ng/) • github.com/honkitng/

WORK EXPERIENCE

The Rockefeller University, New York, NY

Research Support Specialist

Jul 2019 - Present

- Automate cryo-EM data collection setup procedures and processing to improve efficiency
- Develop user-friendly GUIs & a web server to correct & monitor micrographs on the fly
- Manage 8TB of data per day by automating data syncing and system maintenance tasks
- Operate light, electron & dual-beam microscopes to execute cryo-EM/ET workflows
- Train 200 scientists in sample preparation, microscope usage, and data processing
- Collaborate with scientists on innovative solutions for data collection & processing

Stony Brook University Dept. of Pharmacology, Stony Brook, NY

Research Assistant

Jan 2017 - Jul 2019

- Analyzed proteins through cryo-EM processing workflows to derive molecular functions
- Prepared samples for imaging by purifying DNA and reconstituting proteins
- Optimized data storage efficiency by implementing Python scripts for file management

ADDITIONAL EXPERIENCE

Stuyvesant High School FIRST Robotics Team, New York, NY

Mentor

Sep 2014 - Jul 2022

- Provided educational, vocational, and personal support to a team of 30 students
- Led the direction of robot designs and strategy by facilitating group discussions

EDUCATION

Stony Brook University, Stony Brook, NY

Aug 2014 - May 2018

Biology B.S., Chemistry Minor

GPA: 4.0/4.0

PUBLICATION

- Lewis, T. S., Sokolova, V., Jung, H., **Ng, H.**, & Tan, D. (2021). Structural basis of chromatin regulation by histone variant H2A. *Z. Nucleic Acids Research*, 49(19), 11379–11391. <https://doi.org/10.1093/nar/gkab907>

AWARDS

- Ward Melville Valedictorian Award *May 2018*
- Outstanding Achievement Award in Biology *May 2018*
- Sei Sujishi Prize in Chemistry *April 2016*

SKILLS

- Proficient in Python (OpenCV, TkInter, PyQt5, NumPy, Pandas, Matplotlib, Flask)
- Proficient in Linux (CentOS, Ubuntu), MacOS, and Windows environments
- Proficient in JavaScript (Next.js, React, jQuery), CSS (Tailwind, Sass), HTML
- Professional working proficiency in Cantonese