

# Honkit Ng

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## EDUCATION

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**Stevens Institute of Technology, Hoboken, NJ**

*Jan 2024 - Dec 2025*

Data Science M.S.

GPA: 3.9/4.0

**Stony Brook University, Stony Brook, NY**

*Aug 2014 - May 2018*

Biology B.S., Chemistry Minor

GPA: 4.0/4.0

## WORK EXPERIENCE

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**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
- Optimized data storage efficiency by implementing Python scripts for file management

## ADDITIONAL EXPERIENCE

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**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

## PUBLICATION

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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.

## AWARDS

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

## SKILLS

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- 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