

RAYMOND CHEN

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EDUCATION

Duke University, Durham, NC

May 2022

- **Majors:** B.S. Computer Science, Neuroscience, **GPA:** 4.00/4.00
- **Relevant Courses:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Discrete Math, Probability, Statistical Inference, Linear Algebra, Multivariable Calculus

Pingry School, Basking Ridge, NJ

June 2018

- **Honors:** Cum Laude Society, Rensselaer Mathematics and Science Award, AP National Scholar

Columbia University Science Honors Program, New York City, NY

Sept. 2017 – June 2018

- **Courses:** Computational Neuroscience, Stem Cell Biology and its Applications

SKILLS

Skills: Java, Python, C, Assembly, HTML, CSS, JavaScript, MATLAB, Git

Interests: Data Science, Fintech, Biotech, Medicine, Environment, Photography, Badminton

EXPERIENCE

Pearson Lab, *Huang Research Intern*, Duke University

May 2019 – July 2019

- Built a real-time calcium imaging analysis platform using Python and the open source CalmAn package
- Initialized and completed platform's integration with Windows OS using Windows Subsystem for Linux
- Analyzed and improved Numba and Apache Arrow performance in platform using the SciPy stack

Gavornik Lab, *RISE Research Intern*, Boston University

July 2017 – Aug. 2017

- Proposed and executed a project analyzing spatiotemporal sequence learning in mouse primary visual cortex using MATLAB, Electrophysiology, and Immunohistochemistry
- Programmed a frame-by-frame video analyzer using MATLAB to track mouse motion inside a box

Waksman Students Scholars Program, *Research Student*, Rutgers University

June 2016 - July 2016

- Isolated and analyzed genes of the duckweed plant, *landoltia punctata*, using National Center for Biotechnology Information (NCBI) tools, SnapGene, PCR, bacterial transformation, miniprep, and gel electrophoresis
- Published 2 EST cDNA entries in the NCBI database: JZ924396.1, JZ924376.1

PROJECTS

Personal Website, raymondhechen.com

June 2019

- Developed a personal portfolio using HTML, CSS, JavaScript, and deployed using GitHub environments

LEADERSHIP

Huang Fellows Program, Duke University Science & Society

Mar. 2019 – May 2022

- Learned to understand science in the context of and in service to society, along with how to integrate ethics, policy, and social implications into my scientific research

Duke Club Badminton, *Social Chair*, Duke University

Feb. 2019 – May 2020

- Responsible for promoting inclusion and interaction between members by overseeing events and marketing

Independent Research Team, *Project Team Leader*, Pingry School

Oct. 2016 – June 2018

- Proposed, obtained funding for, and led a 3-member team to study the effect of anti-apoptotic protein, Bcl2L12, on melanoma using a zebrafish model with the assistance of Harvard University Professor Leonard Zon