# RAYMOND CHEN

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## EDUCATION

**Duke University**, Durham, NC **May 2022**

- *Intended Majors:* BS in Computer Science, BS in Economics/Neuroscience, *GPA*: 4.00
- *Courses:* Data Structures & Algorithms, Probability/Statistical Inference, Linear Algebra, Multivariable Calculus

**Pingry School**, Basking Ridge, NJ **June 2018**

- *Honors:* Pingry School Chapter Cum Laude Society, Rensselaer Mathematics and Science Award, AP National Scholar, National Merit Scholarship Commended

**Columbia University Science Honors Program**, New York City, New York **Sept. 2017 – June 2018**

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

## SKILLS & INTERESTS

**Skills:** Java, Python, JavaScript, HTML/CSS, MATLAB, Eclipse, Microsoft Visual Code, Microsoft Word/Excel/PowerPoint

**Interests:** Machine Learning, AI, Fintech, Biotech, Neuroscience, Medicine, Environment, Journalism, Badminton

## INTERNSHIP/RESEARCH EXPERIENCE

**Independent Research Team**, *Project Team Leader*, Pingry School **Oct. 2016 – June 2018**

- Proposed, obtained funding for, and conducted a project studying the effect of anti-apoptotic protein, Bcl2L12, on melanoma using a zebrafish model
- Led a 3-member team to conduct wet lab experiments using bacterial transformation, miniprep, and gateway cloning

**RISE Internship**, *Research Intern*, Gavornik Lab, 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

**Kennedy Krieger Institute**, *Research Intern*, Johns Hopkins School of Medicine **June 2017 – July 2017**

- Studied Tafazzin protein's role in glioblastoma growth and malignancy
- Gained experience in Western Blot, Flow Cytometry, qPCR, Viral Transfections, Cell Culturing

**Cancer & Immunology Center**, *Research Intern,* Children's National Medical Center **July 2016 – Aug. 2016**

- Studied evolution of malignant gliomas in the subventricular zone stem-cell niche
- Gained experience in PCR, Gel Electrophoresis, Histology, Immunohistochemistry, Cell Culturing, Microscopy

**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

## LEADERSHIP EXPERIENCE

**Pingry Minecraft Server Network**, *Managing Director*, Pingry School **Sept. 2013 – June 2018**

- Designed, built, and maintained a Minecraft Spigot multi-server network with 40+ recurring student players
- Programmed and configured multiple server plugins to provide a more entertaining player experience

**Math and Science Center**, *Tutor*, Pingry School **Sept. 2014 – June 2018**

- Tutored students in STEM subjects of all levels, and prepared students for standardized exams

**Student Technology Committee**, *Committee Member*, Pingry School **Nov. 2015 – June 2018**

- Discussed and initiated technology projects, including Schoology integration and help desk assistance
- Setup and tested HTC Vive as part of a Virtual Reality project