Helen Jin

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EDUCATION

Columbia College, Columbia University, New York, NY — Expected: May 2020
B.A. Candidate in Mathematics, Computer Science — GPA: 3.8 / 4.0

- **Relevant Coursework**: Data Structures in Java, Programming Lang (Python), Discrete Math, CS Theory, Linear Algebra, Modern Algebra I, Calculus-Based Intro to Statistics, Probability Theory
- **Honors/Awards**: Dean's List (all semesters)
- **Teaching Assistant** for Calculus I (Fall 2017), Calculus IV (Spring 2018) | **Grader** for Calculus-Based Intro to Statistics (Fall 2017)

Stuyvesant High School, New York, NY — Sep 2012 – Jun 2016
Advanced Regents Diploma — GPA: 4.0 / 4.0

- **Activities**: Girls' Varsity Swimming, Lifeguard, Stuyvesant Spectator (News and Art), Math Team, CS Dojo and Writing Center Tutor, Red Cross Volunteer
- **Honors/Awards**: AP National Scholar, National Merit Finalist, ARISTA Honor Society, National Latin Society

SELECTED EXPERIENCE

Grantham, Mayo, van Otterloo & Co. LLC (GMO), Boston, MA — Expected: Jul - Aug 2018
Incoming Quantitative Equity Analyst Intern

- Global Equities team, will work with MATLAB and SQL

Computational and Systems Biology, MSKCC, New York, NY — May 2017 – Present
Undergraduate Researcher

- Worked with Dr. Dana Pe'er to develop computational methods/packages to analyze single cell data using Python and R

SELECTED LEADERSHIP

Girls Who Code (GWC) at Columbia University, New York, NY — Feb 2017 – Present
Vice President of External Affairs, Executive Board

- Oversaw high school outreach and recruitment for program that holds weekly CS classes for 50 high school girls each semester; worked with other Executive board members to better improve program
- Managed ~30 people on the Managing Board (Finance, Programming, Publicity, HS Recruitment)
- Planned on-site visits, created fundraisers, and reached out to companies and local businesses for sponsorship

SELECTED PROJECTS

SCAnalysis

- Built a Python package and Jupyter notebook to analyze single cell RNA-seq data that incorporates MAGIC and Wishbone technologies, with additional features (including Palantir). Wishbone is an algorithm to align single cells from differentiation systems with bifurcating branches. MAGIC (Markov-Affinity Based Graph Imputation of Cells) is an interactive tool to impute missing values in single-cell data and restore the structure of the data.

Tetris Remix

- A modified re-make of the classic game Tetris in Processing; has Levels mode (twenty successive levels) and Infinite mode

SKILLS & INTERESTS

Technologies: Java, Python, R, Git, Jupyter Notebook, LaTeX , HTML/CSS/JavaScript, Processing, Racket, NetLogo, Microsoft Office (Excel, Word, PowerPoint), G Suite (Gmail, Drive, etc.)

Languages: English (native), Mandarin Chinese (intermediate), Korean (intermediate), Spanish (basic), Japanese (elementary)

Personal Interests: Philosophy, Music, Visual Arts, Swimming, Yoga