

Jeffrey Chen

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EDUCATION

- Massachusetts Institute of Technology 4.8/5.0 GPA Class of 2022
- Computer Science Major
 - Courses Taken by Jan '21: Algorithms for Inference, Cryptography, General Algorithms, Machine Learning, Probabilistic Systems Analysis, Web Programming, Real Analysis, Group Theory, Linear Algebra, Design Lab
- Harvard Summer and Extension School 4.0 GPA June 2016 - May 2018
- Cambridge Rindge and Latin School, Cambridge, MA 4.0 GPA Class of 2018
- Awarded **Edward Hopkins Scholarship** for having top 6 GPA in the class of 2018- 6k Scholarship prize

EXPERIENCE

- Dyno Therapeutics**, *Machine Learning Intern* May 2020 - September 2020
- Worked on accurately predicting properties such as packaging, tropism, and transduction, to propose optimal AAV(viral) capsid DNA sequences, and building full scale machine learning infrastructural pipelines
 - Lead research to discover novel signal in improving packaging ability in AAV genetic sequence optimization
- Abelian AI**, *Co-Founder* November 2019 - Present
- dorm room AI consulting that delivers end to end predictive systems
 - work on ML system design, full stack integration, as well as business development
- The Routing Company(formerly Routable AI)**, *Software Engineer* May 2019 - September 2019
- Algorithmic development and implementation as an integral member of a ride hailing startup, helping reach a pre-seed round of over 1 million through the UFirst Accelerator.
 - Worked extensively with Golang, ReactJS, Kubernetes, Docker, InfluxDB, MongoDB and Microservices.
- Broad Institute - Regev Lab**, *Undergraduate Research* January 2019 - Present
- Working on unsupervised clustering in high dimensional subspaces to improve cluster overlap detection, with deep augmented Bayesian Inference mixture models.
 - Sparsification and enriching of co-variance matrices with VAEs to produce independence graphs which can detect casual relationships from latent spaces.
- Groove**, *Team Lead* January 2019
- A music suggestion service for friends built during a month long web programming competition.
 - Integrated Spotify Oath API. Node JS/MongoDB backend; ReactJS frontend
- Broad Institute - Golub Lab**, *Wet Lab Intern* June 2017 - July 2018
- Worked on drug combination synergy and identifying markers for brain metastases. Had extensive hands on experience with wet lab work, including tissue culture, PCR, and drug data analysis.

RESEARCH AND TALKS

- Chen, J.** Wallar, A. Van Der Zee, M. Hong, D. Chai, L. (2019). *UFirst Demo Day*, 2018, Boston, Massachusetts.
- Chen, J.** Xin, J. Todd, G. (2017). *Investigating Combination Therapy in Triple-negative Breast Cancer Using CRISPR + Drug Combo Perturbations.*, 2017, Cambridge, Massachusetts.

SKILLS

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| Software | Pytorch, Python, Golang, ReactJS, CSS, HTML, Javascript, L ^A T _E X |
| Tooling | Kubernetes, Docker, MongoDB, Pandas, Numpy, HAIL, Scanpy |