Claire Wang

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EDUCATION

Massachusetts Institute of Technology (MIT) - *May 2027*

Candidate for Bachelors in Computer Science + Neuroscience (6-9) and minor in planning/public policy (11). Involved with Hack MIT, Code for Good (pro-bono tech consulting & development), and Harvard Policy Debate.

Phillips Academy Andover - *2020-2023*

Co-president of CS, Quiz Bowl, Biology, and SciOly Clubs. Also, Makerspace Guide, Peer Listener, and Digital Editor of *The Phillipian*. *Relevant coursework*: Linear Algebra, Formal Language Theory, Algorithms, Data Visualization, Ethics of Technology, The Workshop.

Stanford Online High School / Ad Astra School - *2018-2020*

Relevant coursework: AP Physics C, AP Stats, AP CS A, Leadership Course Series. Ran Hack & Neuro Club; was Freshman Class VP. Ad Astra: secondary school held at SpaceX HQ founded by Elon Musk & Josh Dahn. *Coursework*: AP Calc BC, Haskell, Robotics.

<u>*Technical Skills*</u>: Web Development (React, Next, etc.), Graphic Design (Figma, Adobe Illustrator), C++ (backend & algorithms), Python, Haskell, Java, Fusion360, 3D Fabrication, Machine Learning, data visualization (d3js, three.js, data journalism), data analysis.

RESEARCH

Desimone Lab @ MIT McGovern Institute - *2023-Present*

(Tentative) title: <u>*Behavior Analysis of Freely Moving Marmosets*</u>, under the direction of Beizhen Zhang, Haoran Xu, & Prof. Desimone (UROP). Python/MATLAB and statistical model analysis of neural and motion data.

Jasanoff Lab @ MIT McGovern Institute / MIT CSAIL - *2023-Present*

Designing MRI probe heads / complex RF device phase-array circuits for in-vivo imaging with rats and marmosets, under Kevin Chung.

Research Science Institute @ Visual Attention Lab - *Summer 2022, 2023*

Paper title: <u>*Correlation Between Spatial and Temporal Massive Memory*</u> at Harvard Medical School under Prof. Jeremy Wolfe for the RSI program. Developed a novel web app for human experimentation & data collection; studied the automaticity of massive memory. Was also a counselor at RSI in 2023 & worked on Reinforcement Learning research under R. Dangovski & M. Tomov (hiatus).

UCLA Lab of Neuromodulation and Neuroimaging - *2018-2022*

Intern @ UCLA LONN Lab in the Semel Institute for Neuroscience, researched human fear and memory using BCI & VR technology. Designed VR environments, extensive computer vision data analysis, and software for human experimentation/brain segmentation.

MIT PRIMES & CSAIL - *2020-2022*

Paper title: <u>*Parallel Computing for Bi-core Decomposition of Bipartite Graphs*</u> under Prof. Julian Shun & Jessica Shi. Paper won 2nd at MSEF, 1st Global at S.T. Yau, presented at the AMS-PME JMM22 Conference & published at the ACM-SIAM SODA23 Conference. 2nd year: Broad Institute computational biology work on single-cell RNA sequencing analysis (ended early due to RSI).

WORK & PROJECTS

Contrary Capital VC: Venture Partner - - - - - - - - - *2023*-Present

Contrary identified and invests in the world's top talent. The firm has helped create more than $10 billion in value through investments in companies.

CareYaya Special Projects Intern - - - - - - - - - - - - *2023*-Present

Running various special projects, such as eye tracking for web pages for early-stage dementia tracking, dream EEG exploration, and mobile client interfaces. (startup)

Hack Club: Intern & Community Team - - - - - - - - *2018*-Present

Ran & started the AMA program, helped run a >~10k student community, organized Hacker Zephyr, taught technical workshops & fundraised. Hackclub.com

>> SineRider - *2022-2023*

Lead producer of a web-based game exploring function composition through love & skiing, created by Hack Club students. Public beta launched May 2023 and reached 2nd on HackerNews. sinerider.com

AngelHacks: Director - *2019-Present*

Founded & Directed AngelHacks for all 3 iterations: 1st in LA @ Snapchat HQ, 2nd online w/ >1k attendees, and 3rd as a game jam in Boston. Raised ~$30k in financial donations & worked with >60 judges and mentors. angelhacks.org

DeepAI Intern - *2019-2021*

Worked on AI/ML content & CNN meta-learning testing for Zendo. deepai.org

Nujjet (prev. Tardis) - *2020-2022*

A non-invasive BCI (EEG + tDCS) based startup to build better habits. Won 1st at the Conrad Challenge in 2021 & was offered funding by GATSVI Startups. (hiatus)

AWARDS

- Research Science Institute (2022, 2023)
- Davidson Institute Fellow $25k Scholarship (2023)
- S. T. Yau Global Science 1st & CS Gold (Dec 2021)
- Global Pete Conrad Scholar, Cyber Track (May 2021)
- MSO World Speed Reading Champion (Aug 2020)
- SPARC & WARP Camper (2021, 2023)
- Vex Robotics Worlds VexAI THINK Award (May 2021)
- ACM-SIAM SODA APOCS23 Conf. (Jan 2023)
- Quiz Bowl: MIT QB 1st, Top 20 Nats (2021, 2022)
- USA Biology Olympiad Semifinalist (2021, 2022)
- USA Memory Championship, 3rd place; assisted in organizing 2019 (Jul 2018, 2019)
- NSPA Digital Journalism Award for *The Phillipian* SOTA (2022)
- STS Top 300 Scholar (Jan 2023)
- JMM AMS-PME Conference (Jan/Mar 2022)
- Disney+ Shop Class Show Contestant (2019) & Lifetime Child Genius TV Series (2016)
- Elliptic Curves Math Research under Nahid Walji, published on DeepAI (2018-19)

Other skills: Teaching, Debate, Acting (theater/professional film), Writing (scientific, business, creative).

Languages: English (native) & Mandarin (fluent).