

# Audrey Cui

Email: [audcui@mit.edu](mailto:audcui@mit.edu)

Phone: (408) 784-2347

<https://audreycui.github.io/>

## EDUCATION

### Massachusetts Institute of Technology

Cambridge, MA

*Bachelors of Science; 2020 - 2024*

- **Select Coursework:** Machine Learning (6.036), Algorithms (6.006), Web Development (6.148), Linear Algebra (18.06), Neural Computation (9.40), Neuroscience (9.01), Intro Media Studies (CMS.100)
- **Advanced Standing Exams passed:** CS & Programming (6.0001), Multivariable Calculus (18.02)
- **Activities:** TechX/THINK, Borderline (Augmented Reality Murals) Animation Chair, MIT Admissions Marketing Team, Bhangra, Harvard Chinatown Citizenship

### Monta Vista High School

Cupertino, CA

*2016 - 2020: GPA 4.0 (unweighted)*

- **SAT:** 1590/1600, Math Level 2: 800, Physics: 800, Biology 800. **National AP Scholar:** 5/5 on 9 AP exams
- **Activities:** Biology Club President, Science Olympiad Vice President, Cross Country

## RESEARCH & PROJECTS

### MIT CSAIL - Undergraduate Research Assistant

*Sep 2020 - present*

Paint by Word - <https://arxiv.org/abs/2103.10951>

- Working in Torralba Lab on zero-shot semantic image manipulation
- Responsible for designing & implementing GAN (generative adversarial network) vision experiments in Pytorch
- Submitted paper to a 2021 computer vision conference

### Coral-Fi - <https://coral-fi.herokuapp.com/>

*Jan 2021*

- Customizable lofi creator combining generative art and music
- Created using Javascript, React.js, HTML/CSS, MongoDB/Mongoose, Node.js, Magenta.js, Tone.js

### MIT THINK Scholars & Independent Research

*Jun 2018 - Mar 2020*

From Pixel to Paragraph: A deep neural artwork analysis paragraph generator

- Developed a conditional GAN and visual semantic embedding module in Tensorflow for generating paragraphs analyzing input artwork
- Used computer vision and natural language processing methods
- Built proof-of-concept augmented reality user interface using Unity and Azure.

## WORK & COMMUNITY SERVICE

### MIT Admissions Office

*Dec 2020 - present*

- Animating 2021 Pi Day promotional video and creating marketing materials for MIT Admissions

### Harvard Chinatown Citizenship

*Sep 2020 - present*

- Teaching Mandarin-speaking immigrants English to support them through the US naturalization process

### Hongyun Art School - Art Teacher

*Jun 2017 - Mar 2020*

- Taught weekly intermediate art classes in a variety of media (color pencil, acrylic, watercolor, clay, pen and ink)
- Created & taught a curriculum for camp that teaches the science of light phenomena through watercolor

## SKILLS

Python, Java, Pytorch, Tensorflow, keras, HTML/CSS/JS, React.js, Git, Microsoft Azure, Adobe Illustrator

## HONORS

**2021** NCWIT Collegiate Award Finalist, **2020** Society of Women Engineers Scholarship Recipient, **2020** Equitable Excellence Scholarship Recipient, **2020** Hearts in San Francisco Artist, **2019** MIT THINK Scholars Finalist & overall 2nd place winner, **2018 & 2019** USA Biology Olympiad Top 50, **2019** City of Cupertino Volunteer of the Year, **2018** AIME Qualifier, **2018** Cupertino Emerging Artist Award Winner