

# Joy Jiayin Liu

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## EDUCATION

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### Duke University

Computational Media:

Interdepartmental Major in Computer Science and Visual and Media Studies

GPA: 3.93

Durham, NC | May 2025

### Loomis Chaffee School

GPA: 4.0

Windsor, CT | May 2021

## SKILLS

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Python (pandas, Scikit-Learn, Matplotlib) • Java • C • Blender • Maya • ArcGIS Pro • Omeka • Unity • Unreal Engine • Photoshop • Illustrator • InDesign • GitHub • JavaScript • HTML • CSS •

3D Modeling • 2D Digital Illustration • Drawing • Painting • Printmaking (Silkscreen, Zinc Plate Etching)

## COURSEWORK

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Data Structure and Algorithms  
Computer Systems  
Intro to Database Systems  
Practical Financial Markets

Digital Storytelling  
Theories of Visual Media Studies  
Intro to Visual Culture  
Immersive Virtual Worlds

## EXHIBITIONS

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Group Exhibition, **DOUGH! – A National Juried Exhibition**, Hera Gallery and Educational Foundation, Wakefield, RI, 2021

Group Exhibition, **Connecticut Regional Scholastic Art Awards**, University of Hartford, Hartford Art School, Hartford, CT, 2019

## EXPERIENCES

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### Virtual Black Charlotte | *Research Assistant*

Spring 2022 – Present | Durham, NC

- Develop effective methods to geo-reference and feature trace architecture maps of historic African American neighborhoods in the city of Charlotte using ArcGIS Pro and Photoshop
- Lead Researcher for developing mobile responsive project web page and database featuring interactive map viewers and IIF image viewers using HTML, JavaScript, and CSS

### Ways & Means Podcast | *Graphic Illustrator*

Fall 2022 – Present | Durham, NC

- Design and illustrate cover images and episode images resolving climate change solutions for the Ways & Means Podcast run by the Duke Sanford School of Public Policy

### Sorbara, Schumacher, McCann LLP | *Web Designer*

Summer 2021 | Waterloo, ON

- Created industry-specific advertisement graphics and Redesigned the company website

### Mathematic Sports Analysis | *Independent Researcher*

Summer 2020

- Developed new mathematical methods that improve the accuracy of both Colley and Massy matrix methods in predicting NFL regular season outcomes using Python (Scikit-Learn and pandas libraries)
- Presented findings at the 2020 Midwest Sports Analytic Meeting hosted by Central College

## ACTIVITIES

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### Visualizing Cities Lab | *Undergraduate Fellow*

Spring 2022 – Present | Durham, NC

- Create interactive digital maps using Omeka and Neatline documenting the Chicago Bronzeville African American community during the 1933-1940 Chicago World's Fair
- Gain digital humanities research experiences through mapping spatial information from the historical newspaper Chicago Defender and group discussions with lab faculties

### Alpha Kappa Delta Phi | *Graphic Design Chair, Fundraising Chair*

Spring 2022 – Present | Durham, NC

- Create media graphics and flyers for fundraising, new member recruitment, and alumni newsletters
- Plan Breast Cancer Awareness and other fundraising events for the chapter

### Printmaking Club | *Founder*

Fall 2018 - Spring 2021 | Windsor, CT

- Raised money through the sale of club member prints to support a local, first-year refugee family
- Organized bi-weekly printmaking workshops on campus to teach silkscreen textile printmaking