Yuhan Wang

Northampton, MA | ywang70@smith.edu | (413) 406-8514 | linkedin.com/in/yuhan-wang-yw

EDUCATION

Smith College **Northampton, MA**

- Major: Art History & Computer Science, GPA: 3.93/4.0 Expected May 2025
- Awards: Dean's List 2021-2022

Cornell University, online certificate in Machine Learning Foundation August 2023

SKILLS

Programming: Python, Java, C, C++, JavaScript, Ruby, Matlab, Assembly; **Framework**- Angular, Rails
Creative Software: Adobe PhotoShop, Premiere; Blender, Figma, Fusion 360, Shapr3D, Three.js, Tinkercad, Unity
Language: Chinese (native speaker); English (fluent); Spanish(elementary)

EXPERIENCE

Smith College Plant Lab **Northampton, MA**

Research Assistant in Prof. Chris Golé's Phyllotaxis lab May 2023 - present

- Collected and unrolled 10 Magnolia samples with Mathematica; prepare phyllotaxis data by using Matlab app to analyze unrolled pictures and generate points with triangulation
- Transcribed and innovated 3 topological data analysis program from Jupyter Notebook to Python, pair programmed with 2 students, and generated 5+ heatmaps & plots visualizing the irregularity of phyllotaxis

Smith College Design Thinking Initiative **Northampton, MA**

Studio Design Partner ; *Website Operation Partner* May 2022 - present

- Updated data and interface for an interactive map on self-hosted website smithmakersmaps.com for students to access live information about creation resources on campus with Typescript and Angular
- Tutor students on design software and machines like 3D printers to encourage computational designs
- Hosted 2 workshops teaching basic skills on sewing machine that increases 20+ new students using the space

PROJECTS

Biointerphase **Boston, MA**

AI Studio Project August 2023 - Present

- Collaborated in a team of 5 to develop a time series analysis model to predict bat population decline from White-Nose Syndrome across North America
- Leveraged Python's scikit-learn and Keras libraries to process and analyze data in 2 tracks, enabling more comprehensive feature extraction; built a Random Forest and a Natural Language Processing model
- Produced visualization like confusion matrix to extract insights for effective protection actions for bats and provide foundation for future research on this disease

ExploreCSR at Brown University **Online; Providence, RI**

Research Fellow January 2023 - May 2023

- Researched and prototyped 10+ vector images as innovative web page backgrounds in SVG language; conducted user study on a vector creation tool *filtered.ink* that provides insight for Prof. Jeff Huang's research lab
- Designed animated poster in SVG that showcases vector images' flexibility in Brown's CS Research Symposium

LEADERSHIP & COMMUNITY ENGAGEMENT

Education Without Barriers: *Website team member* September 2023 – present
Smith College Sirens Synchronized Swimming Club: *Coach; E-board Member* January 2022 - present
International Students Organization: *Co-Chair(23'); Publicity Chair(21'-22')* September 2021 - present