Yuhan Wang

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

EDUCATION

Smith College — **Northampton, MA**
- Major: Art History, Computer Science, GPA: 3.96/4.0 — Expected May 2025

Cornell University, online certificate in Machine Learning Foundation — August 2023

SKILLS

Programming: Python, Java, C, C++, JavaScript, Ruby; **Framework:** Angular, Rails; **ML:** NumPy, Pandas, scikit-learn
Creative Software: Adobe PhotoShop, Premiere; Blender, Figma, Fusion 360, Shapr3D, Tinkercad
Language: Chinese (native speaker); English (fluent); Spanish(intermediate)

EXPERIENCE

Smith College Phyllotaxis Lab — **Northampton, MA**
Research Assistant in Prof. Christophe Golé's Phyllotaxis lab — May 2023 – present
- Applied 3 variations of Topological Data Analysis in Python to measure the regularity of phyllotaxis from a disk-stacking model and 10+ plant species
- Redesigned model algorithm to generate hexagonal heatmaps; generated animated persistence diagrams to visually differentiate geometric features across species

Smith College Design Thinking Initiative — **Northampton, MA**
Studio Design Partner; Website Operation Partner — May 2022 – present
- Updated interface for an interactive map on the 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

PROJECTS

Biointerphase — **Boston, MA**
AI Studio Project — August 2023 - December 2023
- Collaborated with a team of 5 to develop a time series analysis model to predict bat population decline from White-Nose Syndrome across North America
- Leveraged Scikit-learn and built 2 ML models to comprehensively analyze data in 2 tracks; extract insights for effective protection actions for bats and provide foundation for future research on this disease

ExploreCSR at Google Research — **Online; Providence, RI**
Research Fellow at Brown University — January 2023 - May 2023
- Researched and prototyped 10+ vector images as web page backgrounds in HTML with <svg> tags; conducted user study on a vector creation tool *filtered.ink* about learning cost for Prof. Jeff Huang's research lab
- Programmed an animated poster in SVG to showcase vector images' flexibility and presented at Brown's CS Research Symposium

Valet Bike — **Northampton, MA**
CSC223 Intro to Software Engineering — February 2022 - May 2022
- Teamed with 4 students building a semester-long project on a Bike Rental Website with Ruby on Rails; applied MVC design pattern, iStar model, and Agile practices to maintain sustainable project development
- Incorporated human-centered design by adding features like adjustable windows for mobile-friendly view; applied Google Map API and Stripe that enables real-world rental experience

LEADERSHIP & COMMUNITY ENGAGEMENT / CREATIONS

Education Without Barriers: *Website team member* — September 2023 – present
International Students Organization: *Co-Chair(23'); Publicity Chair(21'-22')* — September 2021 - present