ISABELLA (YAORAN) SHI

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EDUCATION

Carnegie Mellon University
Bachelor of Architecture
Aug 2021 - May 2026
3.90/4.0
- Double major in Architecture and Human-Computer Interaction (HCI)
- Dean's List from 2022 Spring to 2024 Fall

Coursework
Architecture: Design Studios, Drawing I & II, Digital Media I & II, Generative Modeling, Computational Design, Urbanism, Environment, History

HCI: Cognitive Psychology, Concepts of Math, Logic, Statistics, Fundamentals of Programming, Programming User Interface, HCI Studio, User Research, Human-AI Interaction

SKILLS

Software
Rhino, Adobe Suite, AutoCAD, Enscape, V-Ray, Figma, Microsoft Suite, Google Suite

Technical
Woodshop, laser-cut, physical modeling, digital modeling

Programming Language
Python, Javascript, CSS, HTML

Communication
Teamwork, leadership, project management, ideation, rapid prototyping, human-centered design, public speaking, writing

Language
English, Mandarin Chinese, Spanish

PROFESSIONAL EXPERIENCE

AIGC Intern — *ByteDance, Beijing, China*
May 2024 - Aug 2024
- Evaluated and provided feedback to AI engineers on multiple generations of text-to-image models, including version 3.0, reducing image generation time from 13 seconds to 8 seconds.
- Collaborated with a team of 3 to fine-tune text-to-image models using LoRA, creating ComfyUI workflow that is now live on ByteDance creative platforms for general users to adopt.
- Trained AI through reward model data marking and sorting to improve aesthetics and align AI output with user preferences
- Create text-to-image AI assessment research framework: identifying competitors, designing testing prompts, and refining optimization strategies

Architecture Intern — *gk+a Architects, Rutherford, NJ*
Jun 2022 - Aug 2022
- Analyzed and drafted commercial projects to enhance interior space efficiency with AutoCAD
- Engaged with clients on residential renovation, translating needs into actionable design plans

Architecture Intern — *Valode & Pistre, Beijing, China*
Jul 2021 - Aug 2021
- Examined and archived three of the largest commercial projects of the firm by interviewing architects and compiling records
- Created diagrams and presentations for these projects, targeting media and potential clients

ACADEMIC EXPERIENCE

Material Research Assistant — *Carnegie Mellon University, Pittsburgh, PA*
May 2023 - Sep 2023
- Conducted in-depth research on the case study's interior material options, with a focus on cork, to identify a sustainable and aesthetic solution
- Explored architectural terracotta as an exterior material option, in particular the expression of iridescent glazing on residential buildings, through Enscape rendering and diagramming.

Pre-college Teaching Assistant — *Carnegie Mellon University, Pittsburgh, PA*
Jun 2023 - Aug 2023
- Engaged in daily studio critiques with students to offer work feedback
- With the teaching team, created software tutorials and training sessions for 60 students
- Planed a curated public exhibition to display student projects

PUBLICATION

Shi, Y. (2020). The Analysis of the First Major Transformation of Architectural Aesthetics in China. *Proceedings of the 2nd International Conference on Literature, Art and Human Development (ICLAHD 2020)*. https://doi.org/10.2991/assehr.k.201215.482

Shi, Y., Gu, V. W., & Farke, A. A. (2021). Taphonomic bias in collections of horse phalanges from the Barstow Formation (miocene) and Rancho La Brea (pleistocene) of California, USA. *PaleoBios*, 38(1). https://doi.org/10.5070/p9381052921