

Xinyu (Shireen) Jiao

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EDUCATION

2025 - 2026	M.S. in Computational Design Practices	Columbia University
2024 - 2025	L.L.B. in Civil Law	Beijing University of Chemical Technology
2020 - 2024	B.A. in Product Design	Beijing University of Chemical Technology

SELECTED PROJECTS

Toward a Sound-First AI Interface for the Blind

[Link to Intro](#)

- Prototyped inclusive sound-first UI using Web Audio API, LLM-based voice synthesis, and Arduino hardware.
- Designed website demo and tactile sound-reactive devices; built cross-modal UI workflows (Python/Flask, JavaScript, HTML).

EmpathyEcho – VR Emotional Communication Game

[Link to Intro](#)

- Built VR prototype enhancing communication between students and parents with emotion recognition and immersive avatars.
- Conducted user research (questionnaires, focus groups) and translated findings into gameplay mechanics and UI assets.

WORK EXPERIENCE

Research Assistant - The Future Laboratory, Tsinghua University

Feb. 2024 – Jul. 2024

- Produced interactive storyboards and promo videos using MidJourney, Runway, and After Effects, enhancing project visibility.
- Coordinated an AIGC e-commerce platform prototype, applying UI/UX workflows and ensuring design consistency across interfaces.

Designer - TAL Education Group

Jan. 2024 – Apr. 2024

- Illustrated and digitized children's picture books with Figma and Illustrator, integrated into published educational materials.
- Adapted visual assets into interactive digital formats, improving engagement and usability for learning platforms.

PUBLICATIONS AND PATENTS

Jiao, Xinyu (Nov. 2022). "Candlestick". Design Patent ZL 202230477654.9.

Jiao, Xinyu et al. (Aug. 2023). "Research on Humanized Walking Aid Product Design for Visually Impaired Groups". In: *Design*.

AWARDS

Third Prize in the 7th Milan Design Week	2023
China's National Scholarship	2023

SKILLS

Frontend Development	JavaScript, HTML/CSS, Flask, Unity, Processing, Arduino
UI/UX & Visual Design	Figma, Photoshop, Illustrator, After Effects
3D & Prototyping	Rhino, KeyShot, 3D Printing, Clay Modeling