

CHEN XINGYU

Human-Centred Design Researcher | Healthcare AI, Ageing & Care Technology

Phone: +65 8966 1256

Email: estherchan702@gmail.com

Location: Singapore

SUMMARY

I'm a Product and UX Designer who turns user and stakeholder needs into clear, accessible digital products and service experiences. Across more than five years in product design, visual communication, design education, and project coordination, I have developed strengths in user research, journey mapping, user flows, wireframing, prototyping, usability testing, and visual storytelling. I am currently completing an MTD in Human-Centred Design at SUTD, with project experience spanning AI-assisted healthcare communication, ageing and cognitive-support solutions, and digital workflow design. I work with Figma, Adobe Creative Suite, and AI-assisted prototyping tools, and enjoy collaborating across disciplines to move from insight and problem framing to practical, tested solutions. I am currently exploring Product Designer, UX/UI Designer, and Service Designer opportunities in Singapore.

EDUCATION BACKGROUND

MASTER'S DEGREE IN HUMAN-CENTRED DESIGN

EXPECTED 2026

Singapore University of Technology and Design | Singapore

cognitive and behavioural approaches to technology use, product-service systems, LLM-supported design, and healthcare design evaluation.

BACHELOR'S DEGREE IN PRODUCT DESIGN

2015 - 2019

Dalian Jiaotong University | China

- Foundation in industrial product design, ergonomics, user research, system design, visual communication, modelling and rendering, mechanical structure awareness, electronic product design, prototyping, and design presentation.

WORKING EXPERIENCE

HUMAN FACTORS & ERGONOMICS / INTERNSHIP

JUN 2026 - SEP 2026

SingHealth (SGH), Office of Human Factors & Ergonomics | Singapore

- Supported healthcare human factors and design evaluation activities, including observation planning, interview documentation, and user-needs synthesis.
- Translated patient and staff feedback into practical design requirements for healthcare product, service, and communication improvement.
- Developed practical sensitivity to how clinical routines, communication constraints, and stakeholder responsibilities shape care technologies in real settings.

OPERATIONS

SEP 2024 - JUN 2025

Guang'an Sports Association

- Organised and coordinated public events and activities, supporting schedules, communication and on-site execution.
- Handled administrative documentation and supported external partnerships and artistic promotion work.

TEACHING ASSISTANT

SEP 2020 - SEP 2024

Sichuan Conservatory of Music, International Academy of Arts | China

- Assisted professors with teaching, project supervision, student design development, and design research preparation.
- Taught 2D/3D modelling, rendering, and prototyping skills, supporting graduation exhibitions and competition projects.
- Managed website updates and publicity-board design, including banners, display layouts and visual materials.

DESIGNER

JAN 2019 - FEB 2020

Sichuan Construction Group Co., Ltd | China

- Participated in healthcare-related interior, exhibition, and service-environment design projects.
- Contributed to visual concept development, user-facing presentation layouts, scheme design, and spatial communication materials.

ANIMATION DESIGNER / VISUAL DESIGNER (*Freelance and outsourced projects*)

2019 - PRESENT

- Created corporate branding, product visualisation, and communication materials for technology and media clients.
- Contributed to 2D animation outsourcing projects for games and digital media, developing workflow awareness in creative technology production.
- Delivered Live2D rigging and motion-design work for Bilibili and other media platforms.

RELEVANT RESEARCH PROJECTS

- AI-Assisted Healthcare Communication System for Older Adults — Built and tested an API-connected AI prototype that simplifies medical instructions into tasks, reminders, and plain-language action steps for older adults; explored trust, cognitive load, and care routines.
- Familiar Music as a Low-Load Cognitive Scaffold for Semantic Memory Training in Older Adults — Accepted for presentation at BSG 2026; designed a study on familiar music as low-burden support for semantic memory training.
- The Ethics of Anthropomorphic Companion Chatbots for Minors — Examined trust, attachment, vulnerability, responsibility, and ethical risks in human-AI interaction.
- Design Science: AI-Assisted 2D Animation Workflow — Explored AI-assisted tools in creative workflows, focusing on human-AI collaboration, workflow adaptation, and design-process evaluation.
- Teenage ADHD Assistive System Design — Developed low-disruption assistive-system concepts for attention support, emotional comfort, context fit, and user-centred evaluation.
- Ethnographic Study of Buddhist Temple Practices — Conducted observational and interpretive research into everyday practices, material arrangements, rituals, and situated meanings.

SELECTED AWARDS

- Silver Award, K-Design International Design Competition, South Korea (2017).
- First Prize, College Student Advertising Design Competition, Shanghai (2018).
- Second Prize, National Innovation and Entrepreneurship Competition (2018).
- Second Prize, Liaoning Province Industrial Design Competition (2019).
- Distinguished Undergraduate Graduate (2019).
- Silver Award, Hong Kong Contemporary Design Award (2023).
- Silver Award, International Environmental Charity Design Competition, EPACC (2024).

TECHNICAL EXPERTISE

RESEARCH & QUALITATIVE METHODS:

- User research, observation, interviews
- Stakeholder mapping and feedback analysis
- Usability testing and design evaluation
- Contextual inquiry and participatory design

AI & PROTOTYPING:

- API-connected AI prototyping
- LLM-supported design workflows
- Python / JavaScript / CSS fundamentals
- Product-service system prototyping

HEALTHCARE, AGEING & CARE TECHNOLOGY:

- Healthcare communication and HFE
- Older-adult support and cognitive load
- Patient-facing information design
- Care routines, trust, and user involvement

DESIGN & TECHNICAL FOUNDATION:

- Industrial product and service design
- Mechanical structure and electronic product basics
- 2D/3D modelling, rendering, Live2D
- Adobe PS / LR / ID / AI / PR / AE

RELEVANT CERTIFICATIONS

- Google UX Design Certificate.
- Google AI Essentials Certificate.
- IBM Python for Data Science, AI & Development.
- National Geographic Certified Photographer.
- Member, American Psychological Association (APA).

Languages: Mandarin (Native), English (IELTS 7.0), Japanese (N4).