

JUEXIAO (SHAW) QIN

Lecturer • Interaction Design Researcher • Design Educator

Donghua University, Shanghai, China

qinjuexiao2017@gmail.com • ORCID 0000-0002-9645-6074

Chinese • Native | English • Professional working proficiency; English-led bilingual teaching



ACADEMIC PROFILE Design researcher and educator working across human–AI creative agency, culturally grounded generative systems and technology-enabled design education. My work connects creator research, interaction prototyping, culturally grounded dataset and model development, and research-led teaching.

01 ACADEMIC APPOINTMENT

Lecturer

Shanghai International College of Fashion and Innovation (SCF), College of Fashion and Design, Donghua University • Aug 2024–present
Research and teaching in interaction design, generative AI and technology-enabled design education; course leadership, bilingual studio teaching and programme coordination. SCF is a Donghua University–University of Edinburgh joint-education programme within the College of Fashion and Design.

Donghua University is a national key university and a Project 211 institution.

02 EDUCATION

Tongji University • Project 985 and Project 211 • QS World University Rankings by Subject 2025: Art & Design, 18th globally

PhD in Design

College of Design and Innovation, Tongji University • 2017–2024

Research focus: human–AI creative agency, AI-supported drawing, interaction design and experimental creative tools.

MA in Design

College of Design and Innovation, Tongji University • 2014–2017

Exchange study: Bauhaus-Universität Weimar, Germany • 2015

BSc in Computer Science and Technology

College of Electronic and Information Engineering, Tongji University • 2010–2014

03 RESEARCH AGENDA

Human–AI Creative Agency

Creative intention understanding; inspectable and revisable AI support; interaction mechanisms for non-expert creators.

Culturally Grounded Generative AI

Curated cultural datasets; model fine-tuning; historical authenticity; craft knowledge and responsible provenance.

Open and Learnable Creative Systems

Open-source generative workflows; AI literacy; curriculum design; physical computing and project-based learning.

04 PUBLICATIONS

Peer-reviewed publications · reverse chronological order · applicant name in bold

Sun, X., & **Qin, J.** (2024). AI for supporting the freedom of drawing. *Machine Intelligence Research*, 21(1), 63–88.
<https://doi.org/10.1007/s11633-023-1438-4>

Qin, J., Sun, X., & Xu, W. (2023). A state-of-art review on intelligent systems for drawing assisting. In *Human Interface and the Management of Information* (LNCS 14015, pp. 583–605). Springer. https://doi.org/10.1007/978-3-031-35132-7_44

Sun, X., **Qin, J.**, Xu, W., & Peng, X. (2022). Give me a hand: A scene-fit hand posture drawing aid. In *Artificial Intelligence in HCI* (LNCS 13336, pp. 495–512). Springer. https://doi.org/10.1007/978-3-031-05643-7_32

Sun, X., & **Qin, J.** (2021). Deep learning-based creative intention understanding and color suggestions for illustration. In *Advances in Artificial Intelligence, Software and Systems Engineering* (AISC 1213, pp. 90–96). Springer. https://doi.org/10.1007/978-3-030-51328-3_14

Sun, X., Zhang, Y., **Qin, J.**, Li, J., & Wang, S. (2020). Review of human–intelligent system collaboration [in Chinese]. *Packaging Engineering*, 41(18), 1–11. <https://doi.org/10.19554/j.cnki.1001-3563.2020.18.001>

MANUSCRIPT IN SUBMISSION

Qin, J., Zhang, Y., & Gu, L. (manuscript in submission). *Digital reconstruction of historical qipao silhouettes using fine-tuned diffusion models*.

05 RESEARCH PROJECTS

Latent Heritage: Industrial Muse

International collaboration · Donghua University × HAW Hamburg · ongoing

Researcher and AI workflow designer. Co-developing methods that encode the functional logic of Chinese crafts through governed datasets, Low-Rank Adaptation (LoRA) models, grammar sketches and controllable generation channels. Collaborator: Prof. Peter Kabel, HAW Hamburg.

Teaching AI to Read Historical Form

Project lead · dataset and model research · 2025–2026 · ongoing · manuscript in submission

Built a 188-image historical dataset and three era-specific LoRA models; designed a two-phase blind evaluation with 12 experts. Chronological identification improved from 40.3% with the base model to 70.8% after fine-tuning.

Supporting Creative Agency

Doctoral research · Tongji University · 2017–2024

Developed a research framework connecting drawing content, creative process, creator conditions and AI support. Combined systematic review, creator research, interaction design, prototyping and evaluation. The representative prototype, Give Me a Hand, provided scene-fit 3D hand-posture support while preserving inspection, adaptation and authorship.

06 METHODS AND TECHNICAL PRACTICE

Research methods

Systematic review and qualitative coding · interviews and observational studies · prototype usability testing · surveys and quantitative analysis · expert evaluation · comparative experiments.

AI and computation

Dataset curation and structured annotation · LoRA model fine-tuning · ComfyUI and open generative workflows · ControlNet and inpainting · Python · C++.

Physical interaction

Arduino UNO · sensors and actuators · circuit prototyping · interaction logic and technical documentation.

07 TEACHING EXPERIENCE

COURSES LED — CURRICULUM DESIGN AND PRIMARY TEACHING RESPONSIBILITY

AIGC Design Thinking

Donghua University · 32 hours · 10 design undergraduates

Designed and delivered a core bilingual bridge course combining broad AI-enabled exploration with curation, critical judgement and controllable generation, leading to integrated innovative-qipao proposals. Built reusable JSON workflow templates for rapid run-review-revise cycles.

Digital Design Studio

SCF joint-education programme · Fashion Interior Design BFA · Year 1 Autumn · 48 hours

English-led bilingual studio introducing foundational digital design processes and project development.

Professional Investigation

SCF joint-education programme · Fashion Interior Design BFA · Year 2 Spring · 16 hours

English-led bilingual delivery supporting research, inquiry and design development.

From Trend to Design Idea

SCF joint-education programme · Fashion Interior Design BFA · Year 3 Autumn · 32 hours

Industry-expert collaborative course translating trend research into design propositions.

FUNDED TEACHING DEVELOPMENT AND INDUSTRY-ENGAGED STUDIO

Technology-enabled Visual Merchandising

Project lead · Donghua University × Coach Shanghai Limited · studio delivered Spring 2025 · funded teaching-development project 2025–2026 · completed · 32 Year-2 students

Led a university-funded teaching-development project integrating Arduino, sensors, actuators and physical interaction into a live industry studio. Funding: RMB 5,000 university support plus RMB 5,000 matched funding. All five teams passed brand review and developed interactive-window prototypes; one project received an Outstanding Work award. Outputs included a teaching text and student case collection.

CURRICULUM CONTRIBUTION AND TEACHING SUPPORT

Open-source Hardware and Programming

Teaching assistant and curriculum contributor · College of Design and Innovation, Tongji University · 2014–2017

Contributed to course design, experiment design and textbook writing for Year-1 design students; connected electronics, programming, physical prototyping and collaborative making.

08 PROGRAMME COORDINATION AND INTERNATIONAL TEACHING

Year Coordinator — Fashion Interior Design BFA

SCF joint-education programme, Donghua University

Coordinate timetables and course arrangements; liaise with University of Edinburgh academic staff; maintain briefs, teaching materials and programme records.

Bilingual Teaching Support — Years 1–4

SCF joint-education programme, Donghua University

Supported Beyond the Frame; Pop-up Shop Design; Material Reimagined Project; Small Branded Space Design; Atelier Design; and Graduation Project studios. Facilitate communication between UK teaching staff and students, identify emerging issues, and coordinate timely academic and practical support.

09 ACADEMIC SERVICE AND COLLABORATION

Academic Service — SCF 10th-anniversary Exhibition

Shanghai International College of Fashion and Innovation, Donghua University

Supported exhibit selection, information review, installation and liaison with the exhibition designer/curator.

International Research Collaboration

Donghua University × HAW Hamburg

Collaborative research on culturally grounded generative design, craft knowledge, open workflows and responsible innovation.

International Guest Teaching

HAW Hamburg × Donghua University

Integrated a guest contribution by Prof. Peter Kabel on designer agency in the AI era, divergent/convergent design thinking and model control strength as a creative decision.