

DAI XUDONG

CREATIVE AI RESEARCHER | HUMAN-AI COLLABORATION | GENERATIVE MEDIA

Xi'an, China | +86 187 1071 3421 | 1617593625@qq.com | Academic CV 1/3



RESEARCH INTERESTS

Interdisciplinary founder-researcher trained in composition and computer science. I have founded and operate two Creative AI and music-technology ventures, building intelligent creation systems for film and music, with a focus on moving generative models from isolated production tools to controllable, iterative creative partners through structured planning and human feedback. I have also led project teams for Xunpu Studio in Da Chuang, Rhythm Intelligence in Challenge Cup and entrepreneurship competitions, and an AdventureX hackathon project.

CURRENT RESEARCH QUESTION

How can AI systems translate script-level narrative intent into controllable, consistent generative-media workflows while keeping creators in the loop during planning, generation, and editing?

Human-AI collaboration for creative work

Multimodal script and narrative understanding

Storyboard planning and visual storytelling

Controllable image and video generation

Human-in-the-loop media editing and evaluation

AI-assisted music creation and computational creativity

EDUCATION

Xi'an Conservatory of Music

B.A. Candidate in Composition | Five-year Program

Sep 2022-Jun 2027 (expected) | Rank: 3/35

Composition, harmony, orchestration, music analysis, digital music production and audiovisual creation.

Sichuan University

Computer Science and Technology
Second-degree studies, in progress

Computing fundamentals, software project practice, data analysis, product design and AI tool applications.

Xi'an Conservatory of Music

Micro-major in Music Industry Planning & Management
First cohort, in progress

Music-industry research, copyright, distribution, operations and project planning.

RESEARCH MANUSCRIPT

ReCoP: Reranking with Consensus-Gated Profiles for Shaanbei Folk-Song Lyrics Retrieval
Fifth Author | Manuscript submitted to TISMIR | Sep 2026

RESEARCH EXPERIENCE

Xi'an Huijing Shengchang Intelligent Technology Co., Ltd.

Founder / AIGC Audiovisual Producer

Present

- Core research system: independently designed and developed a Human-AI filmmaking production workflow for real AIGC projects.
- Connected script understanding, storyboard planning, character/environment assets, AI video generation, and rough-cut assembly; used multi-agent orchestration, persistent semantic memory, file-based Skills, structured prompt templates, and multi-model API routing to reduce repetitive prompt writing and inefficient handoffs.
- Implemented creator controls for plans, storyboards, styles, prompts, candidate-shot selection, track timing, and selective regeneration, improving iteration efficiency while retaining human control.
- Built and managed a 25-person AIGC production team and delivered 50+ projects, creating a real-world testbed for narrative consistency, asset control, generation quality, and collaborative decision-making.

HKUST AI Audio Annotation Project

Contributor

- Conducted AI audio annotation, music-content analysis, quality review, and data-standard documentation to support audio-intelligence research and model training.

Xi'an Conservatory of Music National Arts Fund Project: AI & Chinese Instrumental Music

Key Student Contributor

- Served as a key student contributor in a multi-faculty team at Xi'an Conservatory of Music, supporting research on AI and Chinese instrumental music, academic content, project documentation, and outcome validation.

SELECTED RELATED EXPERIENCE

Xinjiang Cultural Tourism Investment Group

Content Planning & AIGC Audiovisual Support Intern

Dec 2025-Feb 2026

Taihe Music

Music Planning Intern - market research, content analysis, and platform-data review

Jun-Sep 2025

Three Xi'an Primary / Middle Schools

Violin Teacher - instruction, rehearsal coaching, and individualized learning plans

Aug 2024-Apr 2025

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CREATIVE AI PROJECTS & VENTURES

TWO FOUNDED VENTURES	ROLE	FOCUS & EVIDENCE
Xi'an Huijing Shengchang Intelligent Technology Co., Ltd.	Founder	Human-AI filmmaking, AIGC content, and music production; 25-person team; 50+ delivered projects
Xunpu Music Creation Technology Co., Ltd.	Founder / Legal Representative	Music-creation and digital tools; Xunpu Studio and Music Assistant (~1,600 DAU as of 1 Sep 2026)

Human-AI Filmmaking Production Automation Workflow **Independent R&D / Research System** 2026-Present

- Independently designed and developed a production-automation workflow linking story planning, event extraction, storyboard generation, character/environment assets, image editing, video generation, and rough-cut assembly for real AIGC projects.
- Addressed repetitive prompt writing, context loss, and inefficient cross-stage handoffs through multi-agent orchestration, persistent semantic memory, file-based Skills, structured prompt templates, and multi-model API routing.
- Implemented with TypeScript, Node.js, Electron, SQLite, Socket.IO, and local ONNX semantic retrieval; supports human revision, candidate selection, and selective regeneration for faster iteration.
- Provides the implemented foundation for the proposed PhD research; the next phase adds an editable narrative-constraint representation and formal baseline, user-study, and expert-review evaluation.

Xunpu Studio | Flagship Music-Creation Product **Product Lead** Present

- Focuses on music creation and digital notation; led product positioning, user research, feature planning, prototyping, development coordination, project applications, and pitching.
- Translates composers' real workflows into product requirements and interaction models, connecting music expertise, Human-AI Interaction, and software-product development.

Music Assistant **AI-Assisted Music Creation Platform** ~1,600 DAU

- Built and iterated a deployed AI music-creation platform with approximately 1,600 daily active users as of 1 Sep 2026.
- Serves as a practical Human-AI Creative Interaction case for examining user needs, feedback patterns, creative control, and iterative product improvement.

Selected Creative Practice & Audience Evidence **Composition / Production**

- Award-winning works include Ling and Zhao; For U reached 1M+ NetEase Cloud Music streams and 2,000+ Douyin uses; a pandemic-relief original song reached 2M+ cumulative streams.
- Trust Me Again was invited to the Start Again performance; Havana is a Loop Station live work.
- Multiple releases entered NetEase Cloud Music rising charts; built astrology and psychology content communities to 600K+ followers.
- Stage participation includes Tomorrowland China, MIDEM, and Strawberry Music Festival, plus 150+ live events and sound-engineering assignments.

INTELLECTUAL PROPERTY

12 registered software copyrights **1** invention patent

Representative software copyright: Twelve-Tone Magic Cube Generation Software, V1.0 - Registration No. 2026SR0486941; Certificate No. 17701222.

Including the representative item above and others, 12 registered software copyrights in total; plus one invention patent.

Research proposal: IntentFlow: A Human-AI Workflow for AIGC Filmmaking.

PROFESSIONAL RECOGNITION

Professional Memberships

- Member, Chinese Association for Artificial Intelligence (CAAI)
- Member, China Association of Sound Engineers
- Member, Shaanxi Musicians Association
- Member, Xinjiang Pop Music Association

Credentials, IP & Languages

- Intermediate Recording Engineer Certificate
- 12 software copyrights; 1 invention patent
- IELTS 6.5; Mandarin Level 2-A

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AWARDS & HONORS

AI, Research Innovation & Project Leadership

- Best AI Music Production Award, HKUST AI Film Festival x MiniMax - Project: Algorithmic Awakening; recognized for AI-assisted music creation and computational creativity
- Second Prize, 2025 Challenge Cup Shaanxi Provincial College Student Entrepreneurship Plan Competition - Project: Rhythm Intelligence - Project Team Lead
- Provincial-level College Student Innovation and Entrepreneurship Program (Da Chuang) - Project: Xunpu Studio - Project Team Lead
- National / Provincial College Student Innovation and Entrepreneurship Competition - Project: Rhythm Intelligence - Project Team Lead
- AdventureX Hackathon - Project Team Lead
- 2026 Creative Star Award - recognized for integrating artificial intelligence, digital media, and artistic production

Academic Honors

- Xi'an Conservatory of Music Honor Scholarship (2024)
- Xi'an Conservatory of Music Honor Scholarship (2025)

Composition & Film Music Awards

- Gold Prize, Erik Satie International Composition Competition (France)
- First Prize, Ivy International Composition Competition (USA)
- First Prize, Russian International Composers Competition
- First Prize, New York Victory Cup International Music Competition
- First Prize, UK International Composition Competition
- Honorable Mention, Paris International Composition Competition
- Second Prize, AIMA International Composition Competition (USA)
- Second Prize, Navia International Composition Competition (Finland)

Performance & Music Creation Awards

- Best Work Award & Best Lyrics Award, MIDIPLUS Arranger Competition
- Best Lyrics Award & Best Composition Award, War Horse Pandemic Relief Song Competition
- First Prize, Liszt International Piano Competition (Xi'an Region)
- First Prize, Hong Kong International Strings Open Competition (Xi'an Region)
- First Prize, UK International Piano Competition
- Second Prize, Paris Opus International Strings Competition
- Second Prize, Boston International Strings Competition

TECHNICAL SKILLS

Creative AI & Research Practice

- Script breakdown, storyboard planning, prompt design, character/environment asset workflows, AI video generation, rough-cut editing, generation QA, and human-feedback iteration
- User research, requirement analysis, prototyping, A/B testing, platform analytics, product planning, and cross-functional team leadership
- Workflow engineering: TypeScript, Node.js, Electron, SQLite, Socket.IO, ONNX semantic retrieval, multi-agent orchestration, and model API integration
- LLM-assisted workflows: GPT, Claude, Codex; generative tools: GPT Image, Seedance, Suno

Music, Audio & Languages

- Composition, orchestration, songwriting, recording, mixing, mastering, and sound design
- Studio One, Logic Pro, Cubase, Pro Tools; Waves, iZotope Ozone, FabFilter; Yamaha CL/QL, Allen & Heath, Pioneer
- English: IELTS 6.5; Mandarin: Level 2-A