

DAI XUDONG

COMPOSER | MUSIC AI RESEARCHER | HUMAN-AI CREATIVE SYSTEMS

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



RESEARCH PROFILE

Composition-trained founder-researcher working across musicianship, AI music products, and human-computer interaction. I am a five-year Composition candidate at Xi'an Conservatory of Music (rank 3/35) with concurrent computer science studies. I have founded two technology ventures and led the development of Xunpu Studio and Music Assistant, a deployed AI-assisted music platform serving real-world creators. My research goal is to help AI systems understand structured musical intent and support controllable, local revision while preserving human authorship and creative agency.

CURRENT RESEARCH QUESTION

How can AI music systems translate expert musical intentions into persistent, editable constraints and support iterative generation without disrupting the structure and decisions that creators choose to preserve?

Controllable and expressive AI music generation	Human-AI music co-creation and creative agency
Symbolic music representation and musical reasoning	Interactive composition, arrangement, and local editing
Music information retrieval and evaluation	Multimodal audio/music generation and editing; computational audition

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, songwriting, 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 & ACADEMIC EXPERIENCE

Xunpu Music Creation Technology Co., Ltd.	Founder / Legal Representative / Product Research Lead	Present
- Founded Xunpu Studio, a music-creation and digital-notation initiative; led creator interviews, requirements analysis, product design, prototyping, development coordination, and iterative validation. - Developed and operated Music Assistant, an AI-assisted music creation platform with real-world users; product experience revealed recurring problems in professional intent expression, structural continuity, repeated prompt writing, and controllable revision. - Position the deployed products as a field-grounded testbed for future research, rather than as completed academic evidence; formal studies will require consent, ethics review, baselines, and reproducible evaluation.		
AI Audio Annotation Project (HKUST)	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	Major Student Participant	
- Worked within a multi-faculty project team on AI and Chinese instrumental music, contributing to academic content, project documentation, research support, and outcome validation.		

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MUSICAL PROFILE

FORMAL MUSICIANSHIP

- Composition, harmony, orchestration, musical form, counterpoint, score analysis, and songwriting
- Keyboard, violin, rap, DJ, Loop Station, and multi-instrument arrangement experience
- Violin teaching, rehearsal coaching, performance preparation, and individualized instruction

PRODUCTION & PERFORMANCE

- Recording, editing, mixing, mastering, sound design, and audiovisual scoring
- Studio One, Logic Pro, Cubase, Pro Tools; Waves, iZotope Ozone, and FabFilter
- Yamaha CL/QL, Allen & Heath, Pioneer, Serato DJ, and Traktor; 150+ live events and sound assignments

SELECTED WORKS & AUDIENCE EVIDENCE

SELECTED WORKS

- Algorithmic Awakening - AI-assisted audiovisual music project; Best AI Music Production Award
- Ling and Zhao - award-winning compositions
- Trust Me Again - invited performance at Start Again
- Havana - Loop Station live work

AUDIENCE & RELEASE OUTCOMES

- For U - 1M+ NetEase Cloud Music streams and 2,000+ Douyin uses
- Pandemic-relief original song - 2M+ cumulative streams and official competition recognition
- Multiple releases entered NetEase Cloud Music rising charts
- Stage participation at Tomorrowland China, MIDEM, and Strawberry Music Festival

MUSIC-TECH VENTURES & LEADERSHIP

Xunpu Music Creation Technology Co., Ltd.

Founder / Legal Representative

Present

- Leads Xunpu Studio and Music Assistant across product strategy, creator research, prototyping, development coordination, operations, competition applications, and pitching.
- Translates real composition and production workflows into product requirements at the intersection of music expertise, Human-AI Interaction, and software development.

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

Founder / Music Producer / AIGC Producer

Present

- Built and manage a 25-person production team and delivered 50+ projects across AI drama, motion comics, advertising, cultural tourism, branded IP, music, and sound production.
- Developed AI-assisted audiovisual workflows integrating script analysis, storyboard and video generation, automated rough-cut assembly, reusable prompt templates, and human feedback to address production inefficiencies and repeated prompt preparation.
- Lead creative briefs, composition and audio production, client communication, production schedules, quality control, and cross-functional delivery.

PROJECT LEADERSHIP

- 2025 Challenge Cup, Shaanxi Province - Second Prize
Rhythm Intelligence | Project Team Lead
- Provincial-level Da Chuang Project
Xunpu Studio | Project Team Lead

- National / Provincial Innovation & Entrepreneurship Competition
Rhythm Intelligence | Project Team Lead
- AdventureX Hackathon
Project Team Lead

SELECTED RELATED EXPERIENCE

Taihe Music

Music Planning Intern - artist/song research, playlist planning, content analysis, and platform-data review

Jun-Sep 2025

Xinjiang Cultural Tourism Investment Group

Content Planning & AIGC Audiovisual Support Intern

Dec 2025-Feb 2026

Three Xi'an Primary / Middle Schools

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

Aug 2024-Apr 2025

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AWARDS & HONORS

AI, INNOVATION & ACADEMIC

- Best AI Music Production Award, HKUST AI Film Festival x MiniMax - Algorithmic Awakening
- 2026 Creative Star Award - AI, digital media, and artistic production
- Second Prize, 2025 Challenge Cup Shaanxi Provincial College Student Entrepreneurship Plan Competition - Rhythm Intelligence - Team Lead
- Provincial-level College Student Innovation and Entrepreneurship Program (Da Chuang) - Xunpu Studio - Team Lead
- National / Provincial College Student Innovation and Entrepreneurship Competition - Team Lead
- AdventureX Hackathon - Project Team Lead
- Xi'an Conservatory of Music Honor Scholarship - 2024 and 2025

COMPOSITION & FILM MUSIC

- 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

MUSIC-AI PROJECT PORTFOLIO

- Xunpu Studio - creator-centered music creation and digital-notation product environment
- Music Assistant - AI-assisted music creation platform developed and operated for real-world users
- Twelve-Tone Magic Cube Generation Software - registered computational composition software
- Algorithmic Awakening - award-winning exploration of AI-assisted music and audiovisual expression

INTELLECTUAL PROPERTY

12 registered software copyrights and 1 invention patent. Representative software copyright: Twelve-Tone Magic Cube Generation Software, V1.0 - Registration No. 2026SR0486941; Certificate No. 17701222. Additional registrations are available in the supporting materials.

PROFESSIONAL RECOGNITION

MEMBERSHIPS

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

CREDENTIALS & LANGUAGES

- Intermediate Recording Engineer Certificate
- Mandarin Proficiency Test: Level 2-A

TECHNICAL & RESEARCH SKILLS

MUSIC & AUDIO

- Composition, orchestration, songwriting, recording, mixing, mastering, sound design, and score analysis
- DAW production, MIDI workflows, digital notation, audio annotation, and music-content quality review

AI, COMPUTING & PRODUCT

- TypeScript, Node.js, Electron, SQLite, Socket.IO, ONNX semantic retrieval, model API integration, and multi-agent orchestration
- User research, requirements analysis, prototyping, A/B testing, product analytics, prompt design, and team leadership