CHEN Qianbei

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EDUCATION BACKGROUND

National University of Singapore   09/2025 ~ 09/2026
- Major: Audio System Design   *Singapore*
- Degree: Master of Audio Arts & Sciences
- **Main Courses:** Immersive Sound Technologies, Acoustics, Critical Listening Laboratory, Audio System Tuning, Electroacoustics for Vehicles, Audio System Market and Industry

National Academy of Chinese Theatre Arts   09/2019 ~ 07/2025
- Major: Recording Art (Sound Art Design)   *Beijing, China*
- Degree: Bachelor of Fine Arts
- Cumulative GPA: 3.9/4.0 (93.96/100)
- Grade Ranking: 4th/70
- **Main Courses:** Introduction to Opera Singing **(100/100)**, Sight-Singing and Ear Training **(100/100)**, Mathematical Basis of Sound Recording (99.3/100), Piano **(100/100)**, Digital Audio Workstation (93.7/100), Simultaneous Sound Pickup (92.8/100), Techniques in Music Recording and Production (95/100), Basics of Sound Reinforcement Practice (94.4/100), Ancient Chinese Music History (98.6/100), Audio Recording Technology for Film and Television (96.5/100)

ACADEMIC ENRICHMENT PROGRAMS

The University of Hong Kong, Summer Institute   07/2024
- Program: AI Engineer: Gen-AI and Virtual World   *Hong Kong, SAR*

- Gained foundational knowledge of generative AI and virtual environment design, utilizing tools like Twinmotion for 3D scene construction and Suno for AI-driven music composition.
- Collaborated in a cross-disciplinary team to produce a 5-minute short film, leading the soundtrack creation with Suno-generated audio elements, demonstrating skills in blending AI-generated content with traditional music production workflows.
- Explored applications of AI in creative industries, focusing on ethical considerations and technical challenges in automated content generation for media and entertainment.

Korea University, International Winter Campus   12/2022 ~ 01/2023
- Program: Korean Cinema & Visual Culture   *Seoul, Korea*
- GPA: 4.0/4.5

- Explored the evolution of "New Korean Cinema" (1980s–1990s), analyzing landmark films *The Housemaid, Joint Security Area* and *Memories of Murder* to dissect their narrative techniques, socio-political contexts, and directorial styles of auteurs like Bong Joon-ho, Park Chan-wook, Lee Chang-dong, and Hong Sang-soo.
- Conducted comparative studies on how films reflected democratic transitions and cultural identities, focusing on themes of national division, gender dynamics, and social inequality in post-authoritarian Korea.
- Developed critical insights into the interplay between cinematic realism, modernist aesthetics, and globalized film industries through case analyses and seminar presentations.

PUBLICATIONS

[1]Qianbei Chen. (2024) "Artistic Features and Development Trends of Sound Design in Traditional Chinese Opera: A Case Study of Peony Pavilion." East Entertainment Weekly 12(2024):0101-0103. (Accepted, in Chinese) https://www.cqvip.com/doc/journal/2010228814292059136

[2]Qianbei Chen. (2025) Beyond Stereo: The Aesthetic Revolution of Immersive Audio in Contemporary Digital Art and Performance: A Case Study of Peking Opera *Haitanghua*. (Under Review)

RESEARCH EXPERIENCE

Bachelor Thesis: Research on the Construction Technology of Panoramic Sound Field in Immersive Chinese Opera (Xi Qu) Recording: A Case Study of Peking Opera *Haitanghua*.

China National Academy of Chinese Theatre Arts, 2025

- Employed psychoacoustic principles (ITD, ILD, HRTF) and immersive audio tools (SPAT Revolution, MATLAB) to reconstruct 3D soundfields for traditional opera, addressing limitations of flat, static stage acoustics. Analyzed historic theater acoustics, optimized reverberation parameters (T30, EDT), and designed dynamic sound source trajectories to simulate spatial depth.
- Through iterative modeling and auditory testing, transformed ancient Chinese Theatre stage acoustics into digital models, resolving "flatness" in initial simulations via mid-frequency decay optimization.
- Pioneered a quantifiable framework merging Chinese opera aesthetics with modern audio tech, offering a replicable paradigm for cultural heritage digitization. Laid groundwork for future VR/AR-integrated Chinese opera soundfield research, bridging tradition and innovation in immersive media.

Artistic Features and Development Trends of Sound Design in Traditional Chinese Opera: A Case Study of Peony Pavilion.

Journal Article, Eastern Entertainment Weekly, 2024

- Employed interdisciplinary analysis combining musicology, acoustics, and theatrical studies to examine the artistic characteristics and technological innovations in sound design for Kunqu Opera The Peony Pavilion. Conducted a case study of The Peony Pavilion, dissecting how modern sound technologies (e.g., digital audio workstations, surround sound systems) enhance musicality, spatial immersion, and emotional expression in traditional Chinese opera. Analyzed historical evolutions from natural acoustics to contemporary digital solutions, highlighting challenges in balancing technical precision with artistic authenticity—such as using reverb and spatial positioning to simulate garden or dream scenes while preserving Kunqu's melodic nuances.
- Identified key design principles: rhythmic synchronization between percussion and vocals, dynamic spatial layering via speaker placement, and adaptive mixing for emotional transitions. Evaluated the integration of wireless transmission and real-time audio processing, demonstrating how these technologies resolve practical issues like actor mobility and stage acoustics.
- Contributed a framework for merging traditional opera aesthetics with modern audio tools, emphasizing the role of sound design in enhancing narrative depth and audience immersion. The study informed best practices for preserving cultural heritage through technical innovation, providing a bridge between academic research and professional stage production in Chinese opera.

Acoustic Analysis of Timpani

Course Paper, Acoustics

- Conducted a systematic study of timpani through historical research, structural dissection, and acoustic principle analysis. Explored the evolution of timpani design (from mechanical to pedal-controlled types), membrane vibration mechanics, and sound production mechanisms, supported by spectral analysis of timbre and pitch regulation.
- Identified key factors influencing tone quality, such as drumhead tension, resonance chamber shape, and playing techniques (e.g., stick selection, damping methods).
- Contributed an interdisciplinary understanding of timpani acoustics, offering insights for instrument

design, orchestral arrangement, and performance practice.

Haas Effect and Its Applications in Soundfield Design

Course Paper, Acoustics

- Conducted experimental and theoretical research on the Haas Effect, exploring how sound delay (5–50ms) influences auditory localization and spatial perception. Analyzed its role in stereo imaging, loudspeaker layout, and reverb processing, particularly in correcting sound image mismatches in concert halls and optimizing microphone delays in mixing.
- Developed guidelines for integrating Haas Effect into public address systems to enhance sound naturalness, such as using time-aligned auxiliary speakers to improve front-row sound localization. Demonstrated through case studies that precise delay control can reduce listener fatigue and enhance spatial coherence in audio systems. Informed best practices for sound engineers in creating immersive listening environments and resolving acoustic inconsistencies in live and recorded media.

Analysis of Reverb Plugin Modeling Methods

Course Paper, Recording Professional Foreign Language

- Utilized comparative analysis and case studies to examine two primary reverb modeling techniques: reflection simulation (e.g., Oxford Reverb, FabFilter Pro-R) and convolution (EastWest recording methods). Analyzed parameters such as early reflections, decay time, and spectral control in reflection-based plugins, and evaluated convolution's reliance on impulse responses for spatial realism. Identified trade-offs between computational efficiency (reflection simulation) and naturalness (convolution), highlighting how reflection-based plugins offer flexible tone shaping while convolution excels in recreating specific acoustic spaces. Provided practical guidelines for selecting reverb algorithms in music production, aiding engineers in balancing realism and workflow efficiency based on genre and recording environment.

Historical and Cultural Analysis of Korean Cinema

Course Papers & Exams, Korean Cinema and Visual Culture (Korea University), 2023

- Employed textual analysis, historical contextualization, and comparative research to investigate Korean cinema's engagement with social, political, and cultural transformations across eras. Analyzed *The Housemaid* (1960) and *Obaltan* (1961), decoding their roles in post-war societal narratives: the former used surrealist techniques to critique gender dynamics and class conflict amid modernization, departing from contemporary realism through symbolic visuals and psychological depth; the latter blended realist depictions of post-war poverty with modernist aesthetics, using camera angles and spatial symbolism to reflect societal trauma and class displacement.
- Explored *The March of Fools* (1975) and *Chilsu and Mansu* (1988) as pivotal works capturing generational identities under authoritarian and transitional regimes. For *The March of Fools*, linked its censorship to 1970s political repression, highlighting youth culture (long hair, rock music) as subversive symbols; for *Chilsu and Mansu*, analyzed how dual protagonists embodied 1980s youth struggles during democratization, blending social realism with critiques of consumerism and political stigma.
- Examined the rise of "New Korean Cinema" in the late 1990s, focusing on auteurs like Bong Joon-ho. Contrasted 1990s films (e.g., *Joint Security Area, Memories of Murder*) with 1980s works, identifying political liberalization, industrial reforms, and auteur styles (narrative realism, dark humor) as drivers of cinematic innovation. Demonstrated how Bong Joon-ho balanced social critique with commercial appeal, shaping discussions on cultural globalization and auteur theory.
- Collectively, these analyses revealed cinema as a lens for Korea's historical identities—from post-war trauma to democratic transitions—enriching understandings of how films negotiate power, gender, and generational memory while contributing theoretical frameworks for film-industry transformations.

ACTIVITIES & INTERNSHIP EXPERIENCES

China Media Group (Live Keyboard/Live Sound Effects/Live Midi)   12/2023 ~ present

Beijing, China

- Mainly responsible for the live keyboard/sound effects and successfully completed the live broadcast task.
- At the 2023 National "Village Spring Festival Gala" Demonstration and Exhibition Event of China Central Radio and Television.
- At the Beijing main venue of the 2024&2025 "My Village Evening, My New Year", Village Spring Festival Gala of China Central Radio and Television.
- In the CCTV China National Radio, 2024 Lantern Festival, special live broadcast "Lights Warm China". (Please visit the website https://www.yspapp.cn/1U57 for the work.)

National Centre for the Performing Arts (Audio Assistant)   01/2024

Beijing, China

- Joined the audio group of "Long-lasting Beijing Opera and Splendid National Essence - A 200-year Tour of Peking Opera Music", organized by the National Centre for the Performing Arts.
- Assisted the theater sound engineer to complete the sound technical work.

Singer of Times Global Entertainment   11/2023 ~ 01/2024

Beijing, China

- *We Share the World*, 2023 United Nations World Youth Forum English Theme Song
  (Published on http://www.cctv-gy.cn/show_12_24203_1.html)
- *The Best Gift*, Original charity music works by Tanoto Foundation
  (Published on http://www.cctv-gy.cn/show_12_24378_1.html)
- *Singing Chinese New Year*, CSA New Year's Works

Stage Sound Reinforcement and Sound Design of the Performance   04/2023 ~ 1/2025

- **"Tradition Renewal Plan" Hosted by Beijing Tianqiao Art Center**
  The Henan Opera "Mandarin Duck" was selected for the 2023 Beijing Tianqiao Art Center's "Tradition Renewal Plan" and shortlisted for the "Come. A City" drama season in Zhengzhou, Henan.
- **Joint Creation of Graduate Students from National Academy of Chinese Theatre Arts**
  The Qinqiang modern opera "Where My Heart Belongs" was selected for the 10th Contemporary Small Theater Opera Art Festival and won the "Outstanding Play of the 10th Contemporary Small Theater Opera Art Festival".
- **The 29th Opera Festival of National Academy of Chinese Theatre Arts**
  "The Banquet" won "the 7th Beijing Cultural Creativity Competition Finalist Award".
- **Yue Opera "Waiting for Spring to Return" & Stage Play "Crane Feather"**
  "Waiting for Spring to Return" was selected for the 2024 Peiyuan Art Festival and performed again at the Nanyang Theater in Beijing on September 20, 2024 and September 21, 2024.
- **Laixi Lv Opera Troupe 2024 Annual Business Assessment**
  Large scale Ancient Lv Opera "Flower as a Medium"

***Roulette .357*, Communication University of China Digital Media Homemade Short Film**   03/2023

- Responsible for synchronous sound recording
- Please visit the website https://movie.douban.com/subject/36395491/?dt_dapp=1 for the work.

Beijing Liyinge Culture and Arts Co., Ltd. (Instructor)   02/2023 ~ 09/2023

- Mainly responsible for teaching piano and vocal lessons to students aged 5 to 12.
- Became proficient in applying the experience and insights gained to music education concepts and methods.

HONOURS & AWARDS

Second-class academic scholarship for the 2023 ~ 2024 academic year **(top5%)**   2025

Social Contribution scholarship for the 2023 ~ 2024 academic year   2025

Bronze Award in Challenge Cup China University Student Entrepreneurship Plan Competition   2024

Third-class academic scholarship for the 2022 ~ 2023 academic year **(top3%)**   2024

Second-class academic scholarship for the 2021 ~ 2022 academic year **(top5%)**   2023

Model student of the Department of Music, the National Academy of Chinese Theatre Arts   2023

SKILLS

Language: Chinese (native), English IELTS 6.5 (L 7.0; S 6.0; R 6.5; W 6.5)   06/2024

Music Instruments: Chinese Musicians Association Piano Level 10 -- the highest level of piano performance in China

Technology: Protools, SPAT Revolution, Logic, Ableton Live, Ableton Audition, Q-lab