

Patrick (Pingan) Yao

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MUSIC TECHNOLOGY PROJECTS

Founder | Athens Music Technology Forum (AMTF)

- Founder of AMTF, an organization dedicated to interdisciplinary research and outreach in computer science and music.
- Organised the first-ever edition of the forum, taking place at the Athens Concert Hall (Megaro Mousikis) on 7 November 2025.
- Under the theme "The Sonic Frontier: AI and the Future of Music," the event brought together researchers, musicians and students to discuss music, ethics and culture.
- Spoke & presented about generative AI in music.
- Collaborated with various faculty and students from leading research institutions, featuring their video presentations, facilitating cross-border academic dialogue.

Creator & Developer | "Musical Metrics" (Web-Audio Game)

- Prototyped and coded a set of browser-based ear-training games to support the development of musical listening skills and abilities.
- Built using JavaScript, HTML, and the Tone.js web audio framework.
- Assisting with my ongoing research on the impact of listening abilities on musical education & pedagogy.

RESEARCH & ACADEMIA

Program Committee Member | International Computer Music Conference (ICMC)

2026

- Currently serving as Program Committee Member for ICMC 2026, scheduled to take place in Hamburg, Germany in May 2026.
- Responsible for scientific paper track submissions, review, and reviewer discussions.

Peer Reviewer | International Computer Music Conference (ICMC) 2025

- Served as a reviewer for the ICMC, reviewing scientific papers in the Signal Processing and Human-Computer Interaction (HCI) tracks.
- Analysed falsetto detection computational algorithms & applications of HCI in musical pedagogy.

Peer Reviewer | Web Audio Conference (WAC) 2025 @ IRCAM

- Reviewed papers focusing on web-based music interfaces and tools, contributing to the academic discourse on browser-based audio.
- Assessed topics surrounding web-based live coding, as well as implications of web audio artefacts in online instrumental education.

Attendee | Sound and Music Computing Conference (SMC) 2025

- Attended SMC 2025 in Graz, Austria, meeting various industry professionals and leading researchers in audio technology.
- Engaged with cutting-edge research in music and technology, gaining knowledge about spatial audio, ambisonics, and audio-visual synthesis.

MUSIC PERFORMANCE & RECORDINGS

Live improvisation with AI in solo and ensemble contexts | Somax2 & Max/MSP (2025 - present)

- Experimenting performance with Somax2, an AI application for musical co-improvisation, within the Max/MSP environment.

- Somax2 for atonal music:
 - AMTF 2025: Piano & Somax2 (Xenakis)
 - Studio session @ University of Athens (NKUA): Xenakis Reimagined - A.I. Metastaseis
- Somax2 for traditional & folk music:
 - Studio session @ NKUA: A dialogue between Greek and Chinese folk music - “Lament” from Epirus x Horse Racing
 - Studio session @ Campion: Chinese guzheng & Somax2

Live looping | Electronic music performances (2023 - present)

- Creation of live music (EDM, funk, house, disco) through software looping. Notable performances include:
 - Live recording: Get Lucky (Daft Punk)
 - Live at Hymettus, Athens: Burden of Dreams (original)
 - Live recording: Love Me Again (John Newman)
 - International Day 2025: Get Lucky (Daft Punk)
 - International Day 2023: Careless Whisper (George Michael) (with saxophone)

Notable recitals

- Piano recital at Circolo Lirico, Bologna (March 2022)
- Piano recital at Athens Concert Hall (Megaro Mousikis) (November 2023)

Orchestra (2021 - present)

- Serving as a member of the Campion Orchestra since 2021.
- Keyboardist (2021-2023), electric bassist (2024), melodica player (2023, 2025-present).

Spring & Christmas Concerts (2021 - present)

- Performed in the annual spring and Christmas concerts at Campion School.
- Playing a diverse range of repertoire both as a solo musician as well as in ensembles and bands.
- Performances range from classical works to new music, jazz, as well as rock.

Cast Member | Musical “Grease” (2023)

- Member of the cast in Campion School’s musical production of Grease.
- Acted for the role of Eugene Florsczyk.

Videos of my music can be found on my [YouTube channel](#).

My composition & repertoire list can be found [here](#).

MODEL UNITED NATIONS

Secretary General | Campion School Model United Nations (CSMUN) 2025

- Responsible for the organization, planning, and management of the conference.
- Conducting student officer interviews and the selection process, agenda creation, study guide guidance & corrections, facilitating and hosting workshops, etc.
- Leading the secretariat team and the organizing team, assigning tasks for finance, sponsorship, media, and IT.
- Attended by more than 500 delegates from over 20 schools worldwide.

Deputy Secretary General | Campion School Model United Nations (CSMUN) 2024

- Conference planning & execution with the members of the secretariat team.
- Guiding the student officer team in study guide writing and skill training, working closely with the GA2 and SPECON committees.
- Web developer for the CSMUN website & social media manager.

Student Officer Positions:

- PSMUN 2025: President of Commission on Science and Technology for Development (CSTD) (Study Guide)

- SCMUN 2024: Main Chair of Economic and Financial Committee (GA2)
- CSMUN 2023: Main Chair of Economic and Financial Committee (GA2)
- PSMUN 2023: Deputy President of Economic and Social Council (ECOSOC) (Study Guide)
- SCMUN 2023: Co-Chair of Disarmament and International Security Committee (GA1)
- CSMUN 2022: Co-Chair of Legal Committee (GA6) (Study Guide)

DEBATE

Represented the Champion team at the following tournaments:

- Deree Fall Invitational 2024
- Panhellenics Forensics (PFAT) 2023
- Moraitis Cup 2023
- International Competition for Young Debaters (ICYD) 2023
- Deree Fall Invitational 2022
- Panhellenics Forensics (PFAT) 2022
- Deree Spring Invitational 2022
- International Competition for Young Debaters (ICYD) 2022
- Panhellenics Forensics (PFAT) 2021
- Deree Fall Invitational 2021
- Moraitis Cup 2020

VOLUNTEERING

- Session musician, Artracks Studio (July 2025)
- Sound Engineer, No Further Questions Podcast (2025)
- DJ, Hara Games (2025)
- Live Sound Engineer, 1st Special Olympics Hellas Youth Leadership Conference (2024)
- Designer, Yearbook Committee (2024-2025)
- Spectator Service Team Volunteer, TEDxAthens (2024)
- Project leader, Cultural exchange & book donations with the Second Pingshan Primary School in Guilin, China (2023-2025)

OTHER EXPERIENCES

President of the Champion School Student Council (2022)

- Conducted meetings with members of the student council, discussing school needs & areas of improvement.
- Addressed suggestions & opinions from the students at school.

Speaker | TEDxYouth@ChampionSchoolAthens (2022)

- Spoke on the topic of "Five steps to overcoming your obstacles".

ATHLETICS

- 7th place in age group, WTL League: Epidavros Action Triathlon (2024)
- Champion, Champion School Table Tennis Cup (2022, 2023)
- Member of JV Basketball Team

CERTIFICATIONS

- Distinction, ABRSM Music Performance Grade 7 (Piano)
- Distinction, ABRSM Music Theory Grade 5

- AI for Music and Audio (Berklee)
- ASAP - Creative Exploration and Transformation of Sound (IRCAM)

AWARDS & HONOURS

- Gold Award, Mozart International Music Competition (MIMC) (2025)
- Winner, Champion School MUN Prize (2025)
- Gold Award, UKMT Senior Mathematical Challenge (SMC) (2024, 2025)
- Winner, Champion School Music Prize (2022, 2024)
- Winner, Champion School Geography Prize (2024)
- Recipient, COBIS Student Achievement Awards (2023)
- Recipient, Theseus Prize (2023, 2024)
- Gold Award, UKMT Intermediate Mathematical Challenge (IMC) (2022, 2023)
- Winner, Champion School Mathematics Prize (2022)
- Winner, Champion School Science Prize (2022)