melody chua

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education

Künstuniversität Graz und Zürich University of the Arts (ZHdK)	
Doktor der Künste – Dr. artium	2021 - Present
Resident Doctoral Candidate at the ZHdK Immersive Arts Space	
Dissertation Research: "Developing a Visual Framework for Musical	
Improvisation Machines: Investigating Impacts on Human-Machine	
Interaction, Posthuman Identity, and Performance Narrative"	
Zürich University of the Arts (ZHdK)	2018 - 2021
Master of Arts in Transdisciplinary Studies	
Thesis: "black box fading: Exploring Human-Machine Relationships	
and Impacts on Improvised Music Performance Practice Through	
Creating a Musical Improvisation Machine"	
<u>Distinction:</u> mit Auszeichnung	2016 – 2018
Master of Arts in Music Performance – Flute	
Studio: Prof. Matthias Ziegler	
Thesis/Concentration: Research and Development of the Sensor	
Augmented Flute (Chaosflöte) at the Institute for Computer Music	
and Sound Technology	
Minor: Electroacoustic Music Composition	
Distinctions: Fulbright and Swiss Government Excellence Scholar, mit	
Auszeichnung	
University of Illinois at Urbana-Champaign (UIUC)	
Bachelor of Arts in Music Technology	2012 – 2016
Bachelor of Music in Flute Performance	2012 – 2016
Studio: Dr. Jonathan Keeble	
Distinctions: Chancellor's Scholar, President's Honor Scholar, Bronze	

selected work experience

Tablet Scholar, Summa cum laude

Zürich University of the Arts zhdk.ch	April 2022 – Present
Wissenschaftliche Mitarbeiter (project-basis), Immersive Arts Space	
Focus: 3D Audio, Teaching	
Transdisciplinary Artist https://www.chua.ch/	Sep. 2012 - Present
Background in flute performance, with a specialization in creating multimedia	
performance and installation works with interactive electronics; researching human-	
machine interactions in improvisation settings.	
elea Foundation for Ethics in Globalization https://www.elea.org/	Oct. 2018 - Present

Senior Systems Engineer | Focus: Al and Machine Learning, Process Automation for Investment Teams (Jan. 2025—Present) Information Technology Analyst | Focus: Systems Management, Full-Stack (2018-2024) elea fights absolute poverty by supporting social enterprises in the Global South through entrepreneurial philanthropy. STUDIO ZYKLOS | https://www.zyklos.studio/ Jan. 2023 - Present Co-Founder, Performing Artist Ensemble and new media lab dedicated to the development of human + Al-machine performances. University of the Arts Bern | hkb-soundarts.ch/ Sep. 2021 - Jun. 2023 Teaching Faculty, Sound Arts (Courses: Klangwerkstatt, Game Performances, History of Sound Arts; Individual Mentoring) FluteXpansions Sonic Immersion | http://www.flutexpansions.com/sonicimmersion Jun. 2021 - Jul. 2022 Faculty Artist Flute and creativity intensives in contemporary music, improvisation, and live electronics. **Null-state** Jan. 2017 - 2020 Co-Founder, Performing Artist Live electronics ensemble; providing workshops on electroacoustic music composition and performance practice selected projects Waveform.ai Festival: Guest Lecturer and Performing Artist | College of William Mar. 2025 and Mary, Arts x Sciences Exchange | Williamsburg, Virginia (USA) World premiere of "SUN UNDER WATER" for sensor-augmented flute, interactive sound and live projections. Guest lecture: "Interactive Media Design: Meaning-Making in Human-Machine Interaction." World premiere, panic//void | Filmwinter Festival of Expanded Media | Stuttgart Jan. 2025 (DE) STUDIO ZYKLOS: Immersive multimedia performance "panic//void," as lead interactive sound designer, performer, media artist World premiere, multimedia dance performance | Congress Basel (CH) Nov. 2024 "SHIFT" for dancer and visual projections; Animation, technical lead, sound design Opening performance of the CLTR2024 Conference "Al and Creative Industries" organized by the Swiss Federal Institute for Intellectual Property. Collaboration with Jaira Peyer. STUDIO ZYKLOS Tour | Berlin, Zürich, Bremen, Stuttgart Jun. 2024 Multimedia design and noise music performances with AIYA and Aiii improvisation machines and Chi Him Chik Venues: trXtr Berlin, Kulturhaus Helferei, Radio Angrezi, Kultur Keller

Exhibition: Plankton Imaginary // Experimental Ecology | Arts x Science team Apr.-Nov. 2024

Mar. 2024

Riikka Tauriainen and Meike Vogt | Kunstmuseum St. Gallen

Lead interaction, sound, and visual designer

Exhibition | M4 Music Festival: Al & Music

Interactive installation of the AIYA improvisation machine (developed by Melody Chua). Participants interact with an Al-driven music-making software that responds to body movements.

Exhibition and Performances: LiberAiya Zürich (CH), Konstanz (DE), Winterthur	Mar-May 2024
(CH) Concept, installation design, multimedia programming, and performance; concept and performance collaboration with Max Petersen	
World premiere, multimedia composition: <i>insistence machine</i> for midi keyboards and AIYA improvisation machine Collegium Helveticum, CH	Oct. 2023
Multimedia design and composition; performed by pianist Maryam Mehraban World premiere, multimedia concert: afterdust//afterglow Performances at the Artikulationen Festival Graz, Baby Angel Zürich, Immersive Arts Space Zürich STUDIO ZYKLOS (Melody Chua, Chi Him Chik): multimedia design, composition,	SepOct. 2023
performance	
Exhibition: Plankton Imaginary // Experimental Ecology Arts x Science team	Aug Oct. 2023
Riikka Tauriainen and Meike Vogt Kulturstiftung Basel H. Geiger	-
Lead interaction, sound, and visual designer	
Multimedia concert: when we walk Performance in Stäfa, CH	Jun. 2023
Multimedia design, composition, performance; collaboration with dancer and visual	
designer Jaira Peyer	
Exhibition: Echos I-III by Tina Omayemi Reden at Kunstmuseum Appenzell	Mar. – Jun. 2023
Lead interaction and sound designer. Through this exhibition, Tina Omayemi Reden	
wins the Vordemberge-Gildewart Award.	
Exhibition: touching reverberations by Tina Omayemi Reden at Stiftung Binz39	Dec. 2023
Lead interaction and sound designer	
Exhibition: River Oracle at Shedhalle Zürich, CH	Jun. – July 2022
Lead interaction and sound designer	
Exhibition: River Oracle at RADIUS Center for Contemporary Art and Ecology	Nov. 2021 – Jul. 2022
The Hague, NL	
Lead interaction and sound designer	
LiberA by Max Petersen	Sep. 2021-Feb. 2022
Video Artist for album tracks "No SM" and "Get Out of Me"	
black box fading Immersive Arts Space	Nov. 2020 – May 2021
Full author/composer of work	
https://www.chua.ch/box/4	
Kein Museum	Oct. – Nov. 2020
Featured Artist	
"aiya meets self" interactive audiovisual installation using Posenet skeleton detection	
https://www.chua.ch/p/aiya-meets-self	
Immersive Arts Space	Mar. – Sep. 2018
Lead developer for interactive sound	
Mirror Mirr0r ("Happy Robots") audiovisual dance performance using motion capture and reactive electronics	
Immersive Lab, Institute for Computer Music and Sound Technology	Jul. 2017
Guest Resident Artist	
Interactive audiovisual installation for 360-degree touchscreen	
selected festivals, conferences, symposiums	
ARTikulationen Festival for Artistic Research Graz (AT)	Oct. 2024
Recipient of Best Practice Award for outstanding research presentation	30 =01.
SONify! Festival Graz, AT	May 2024
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AlYA improvisation machine Multimedia design and composition; performed by pianist Maryam Mehraban Artikulationen Festival of Artistic Research Graz, AT Oct. 2023 Austrian premiere of composition/multimedia performance afterdust//afterglow for Chaosflöte, sensor-augmented saxophone, AlYA improvisation machine, Aiii improvisation machine CAMPGround Festival Tampa, USA U.S. premiere of new composition for Chaosflöte and AlYA improvisation machine;
Artikulationen Festival of Artistic Research Graz, AT Austrian premiere of composition/multimedia performance afterdust//afterglow for Chaosflöte, sensor-augmented saxophone, AIYA improvisation machine, Aiii improvisation machine CAMPGround Festival Tampa, USA Mar. 2023
Austrian premiere of composition/multimedia performance afterdust//afterglow for Chaosflöte, sensor-augmented saxophone, AIYA improvisation machine, Aiii improvisation machine CAMPGround Festival Tampa, USA Mar. 2023
Chaosflöte, sensor-augmented saxophone, AlYA improvisation machine, Aiii improvisation machine CAMPGround Festival Tampa, USA Mar. 2023
improvisation machine CAMPGround Festival Tampa, USA Mar. 2023
CAMPGround Festival Tampa, USA Mar. 2023
ILS premiere of new composition for Chaosflöte and AIVA improvisation machine:
5.5. promises of new composition on absilicte and ALLA improvisation machine,
performed by flutist Julianna Eidle
Transdisciplinary Artistic PhD Symposium, ZHdK Zürich, CH Nov. 2022
Presentation of artistic research with AIYA improvisation machine
Constellations Symposium Zürich, CH Nov. 2022
Premiere of work for AIYA and Aiii improvisation machines and two human performers
University of the Arts Bern Bern, CH Sep. 2022
Concert of works for flute and electronics; premiere of new work "Dragonfly" for
Chaosflöte and improvisation machine
CHIME Festival Chicago, USA Jun. 2022
Premiere of new solo works for flute and electronics
Festival Kleintheatre Luzern Luzern, USA Apr. 2022
360° film screening of black box fading
New Interfaces for Music Expression (NIME) Auckland, NZ Mar. 2022
Panel adjudicator for art installation submissions
Performing Music Festival South Bend, USA Feb. 2022
Featured artist (Null-state): Live-coding and Chaosflöte performance
REFRESH Conference, Swiss Digital Days Zürich, CH Nov. 2021
360°/VR film exhibition of black box fading
White Pulse Marathon 3000 Zürich, CH Oct. 2021
Organization team (lead technical manager), sound mixing, and performance
Academia Engelberg: Engelberger Dialogue Engelberg, CH Oct. 2021
Guest performance, Chaosflöte, interactive electronics, and live visuals
La Côte Flute Festival Gland, CH Oct. 2021
Full concert of works for Chaosflöte, interactive electronics, and live visuals
My Behavioral Surplus Festival – "Freedom of Speech in the Age of Surveillance Jul. 2021
Capitalism" Stuttgart, DE
Performance of AIYA and Aiii improvisation machines, Chaosflöte, and saxophone
New Interfaces for Music Expression (NIME) Shanghai, CN Jun. 2021
Installation of black box fading (full) (360°/VR film)
University of South Florida New Music Consortium Online Apr. 2021
Showing of black box fading (pt. 1) (360°/VR film)
Performing Media Festival Online Feb. 2021
Featured artist; Showing of black box fading (pt. 1) (360°/VR film)
International PAM! Festival Uster, CH Sep. 2020
Solo concert: diaphragma for Chaosflöte, AIYA improvisation machine, and live
sound/live visuals
Network Music Festival Online Jul. 2020
Live-coding performance meditation.dystopia (Null-state)
Accidental Music Festival Online May 2020
Intercontinental live-coding performance meditation.dystopia (Null-state)

REFRESH Conference at Digital Festival Zürich, CH	Sep. 2019
World premiere of next step for dancer, pressure-sensitive shoes, and live visuals	
Swiss Digital Day Zürich, CH	Sep. 2019
Chaosflöte performance at the Zürich Hauptbahnhof	
Zürich Design Biennale Zürich, CH	Sep. 2019
World premiere of BAD DECISIONS for Chaosflöte and improvisation machine (AIYA)	
at the Museum für Gestaltung Zürich	
La Cộte Flute Festival Gland, CH	Oct. 2018
Full recital of works for Chaosflöte	
ZHdK Highlights Festival Zürich, CH	Sep. 2018; Sep. 2017
Chaosflöte recital	
USF International New Music Festival Tampa, FL, USA	April 2018
Selected as a performer, composer, and scholar, presenting and performing works for	
the Chaosflöte	
Immerse Festival / Creative City Orlando, FL, USA	Oct. 2017
Intercontinental live-coding performance (Null-state)	
Digital Festival Zürich, CH	Sep. 2017
European premiere of <i>Prelude to an Avenoir</i> for Chaosflöte and live sound/live visuals	
Accidental Music Festival Orlando, FL, USA	Sep. 2017
As resident artist giving performances, masterclasses, and workshops on	
electroacoustic composition and Chaosflöte	
ZKM Next Generation Festival Karlsruhe, DE	Jun. 2017
Live-electronics laptop performance	
"Art's Birthday" Freiburg, DE	Jan. 2017
Premiere of <i>Hcaos Ver. 2</i> for Chaosflöte and live sound/visuals	1.1.0040
Atlantic Music Festival Waterville, ME, USA	Jul. 2016
Future Music Lab Fellowship	
World premiere of Selective Memory for Chaosflöte, 4-channel live sound and live visuals	
Montreal Contemporary Music Lab Montreal, CA	May – June 2016
World premiere of compositions by Keiko Devaux (Falling's Just Like Flying) and Neil	
Quigley (Elephant in a Dark Room)	
Grolloo International Flute Festival Grolloo, NL	Aug. – Sep. 2015
Selected Participant/Performer	
selected lectures, presentations, publications	
College of William and Mary Guest Lecturer	Mar. 2025
Interactive Media Design: Meaning-Making in Human-Machine Interaction	
As part of the Arts x Sciences Exchange, Waveform.ai Festival	
Magic and Design Festival at the Hochschule der Künste Bern (MA Design)	Oct. 2023
Lecture with Paloma Ayala: "River Oracle – Water Bodies as Guiding Beings"	
PLATEAU Publication: "The machine is your mirror, but do you recognize	Jul. 2023
yourself?"	
Article contribution on learnings from the development of the sensor-augmented flute	
(Chaosflöte) and improvisation machine.	
CHO – Centre Chorégraphique, Urgent Paradise—Workshop Lausanne, CH	Feb. 2023
An oracle-making and sound workshop: This performative process addresses the	
concepts of liquid bodies and hydrofeminisms, emphasizing touch as a horizon.	

University of the Arts Bern Symposium: 20 Years of Sound Arts Bern, CH	Sep. 2022
Workshop: "Techniques for applying motion gesture recognition and mapping as an	
expressive medium"	
University of Chicago—Guest Lecture Chicago, USA	Jun. 2022
Lecture: "(Dis)embodiment with an Immersive Improvisation Machine"	
ZHdK Immersive Arts Space—Public Lecture Series Zürich, CH	Dec. 2021
Lecture: "(Dis)embodiment with an Immersive Improvisation Machine"	
My Behavioral Surplus Festival – "Freedom of Speech in the Age of Surveillance	Jul. 2021
Capitalism" Stuttgart, DE	
Guest artist presentation, black box fading	
Staatliche Hochschule für Musik und Darstellende Kunst Stuttgart, DE	Jul. 2021
Guest lecture and workshop on machine improvisation	
Kein Museum Zürich, CH	Jun. 2021
Workshop presentation on the queer use of digital games as part of the artistic research	
project "Queering Games"	
University of South Florida, School of Music Tampa, USA	Nov. 2019; Jan. 2017
Guest lecture in composition for real-time electronics + guest artist presentation; guest	
lecture "Aesthetic and Practical Considerations in Electronic Music"	
Zürcher Kantonalbank (Freiraum – Für Kreativität, Co-Kreation, und Innovation)	Nov. 2019
Zürich, CH	
Chaosflöte presentation	
Geneva International Film Festival (Swiss Interactive Sessions) Geneva, CH	Nov. 2019
Chaosflöte presentation	
Kein Kino (Zürich University of the Arts) Zürich, CH	Mar. 2019
Lecture: Building a Performance Practice for Interactive Electronics	
Embry-Riddle Aeronautical University Daytona Beach, USA	Oct. 2018
Guest artist presentation (Null-state) and live-coding workshop	
Zürich University of the Arts Zürich, CH	Feb. 2018
Chaosflöte Presentation for ZHdK Academic Advisory Committee: Future of Creative	
Industries	
Eastern Florida State College Cocoa, USA	Sep. 2017, Sep. 2018
Guest lecture on studio recording techniques and digital audio workstations + guest artist	
presentation	
Wayne State University Detroit, USA	Mar. 2018
Guest lecture and artist presentation on performing with live electronics	
University of Central Florida, School of Music Orlando, USA	Feb. 2017; Jan. 2018
Improvisation and live-coding workshops	
Melrose Center for Technology, Innovation, and Creativity Orlando, USA	Jul. 2017; Sep. 2017
Max/Jitter programming workshop and guest artist presentation	

awards

Pax Award for New Media Art (Nominated)

Mar. 2025

Awarded by the Art Foundation Pax and the HEK (House of Electronic Arts Basel) for excellence in new media art. Artists cannot actively apply, but are nominated and selected by a jury.

Best Practice Award (Recipient)

Oct. 2024

Awarded for outstanding doctoral presentation at the ARTikulationen Festival for Artistic Research (Graz, Austria).

Digital Shapers (Nomination) | Category: "Creatives"

Aug. 2020

Awarded by digitalswitzerland, in partnership with Bilanz and Handelszeitung, for leading digital innovation in Switzerland

Fulbright and Swiss Government Excellence Scholarship

Sep. 2016 - May 2018

Study and research grant awarded by the United States government in cooperation with the Swiss government, based on merit. Provides a monthly stipend for the duration of study to cover living expenses, tuition, and transportation.

program participation

Roche Continents Aug. 2019

Selected Participant, representing ZHdK

5-day exchange between scientists and artists, hosted by Roche and the <u>Salzburg</u> <u>Festival</u>

Z-Kubator "What's next_Project" Entrepreneurship Program

Mar. - Sep. 2018

Selected Participant

skills

programming environments and systems for interactive sound

MaxMSP (extensive experience), Pure Data, Supercollider, Dante,

Ambisonics 3D-audio protocol

programming environments and systems for interactive visuals

Jitter, TouchDesigner, Resolume

digital audio workstations Ableton (extensive experience), Reaper, Logic Pro

IT systems, platforms, and programming languages

Python, Javascript, Scripting (Powershell, Batch, XML), App Prototyping (Power Apps), Data Analysis and Presentation (Power BI), Process Automation (Microsoft Flows), Network engineering & configuration (Unifi Systems), NAS & data management (Synology, AWS), CRM management (Salesforce), Central Device Management Systems (Microsoft Intune), Domain management