

Cem Çakmak, PhD

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Birthdate: [REDACTED]
Nationality: Turkey

Curriculum Vitae

Work Experience

- 2020 - *Artist and Researcher, Freelance*
Berlin, Germany
- 2018 *Developmental Teaching Assistant,*
Rensselaer Polytechnic Institute, NY, USA
Engineering support for Sound Recording and
Production course. Evaluation, testing, and cataloging
of equipment and materials donated by **Pauline**
Oliveros to the Center for Deep Listening Archives
- 2016 - 2018 *Research Assistant,*
Rensselaer Polytechnic Institute, NY, USA
Research assistantship under **Dr. Rob Hamilton's**
Music in Virtual Worlds Lab
- 2017 *Researcher,*
The Craig H. Neilsen Foundation, NY, USA
Assistive technologies research under **Dr. Jonas**
Braasch, reporting and dissemination via ISATMA
- 2015 - 2016 *Artist, Freelance*
Istanbul, Turkey

Education

- 2016 - 2020 **Rensselaer Polytechnic Institute, NY, USA**
School of Humanities, Arts and Social Sciences
PhD, Electronic Arts
Advisor: Rob Hamilton
Thesis: *A Systems-Theoretical Approach to Spatial
Electronic Music Practices*
- 2013 - 2015 **Istanbul Technical University, Turkey**
Centre for Advanced Studies in Music (MIAM)
MSc, Music
Advisor: Anil Çamcı
Thesis: *Online Gaming as a Model for Networked Intra-
Active Music Spaces*
- 2009 - 2013 **University of Manchester, UK**
School of Mechanical, Aerospace and Civil Engineering
BEng (Hons), Civil Engineering
Thesis: *Development and Application of Water Resistant
Foam Concrete*

Knowledge and Skills

Languages:

Turkish (Native)
English (C2)
German (B2)

Programming:

C, C++, C#, HTML, CSS,
Java, Python, TensorFlow,
Fortran, Mathematica,
MATLAB, Xcode, Max/MSP,
gen~, Pure Data, ChuckK,
WebAudio, Arduino, OSC,
MIDI

Audio Software:

Ableton Live, Cubase, Logic,
ProTools, Audacity, Reaper,
SPAT, Panoramix, Dante

Graphic and Visuals:

Processing, Unity3D,
openFrameworks, A-Frame,
LaTeX, Premiere, Wordpress,
After Effects, Final Cut,
AutoCAD

Operating Systems:

OS X, Windows, Linux, iOS,
Android

Performance:

Guitar, Piano, Percussion,
Live-Electronics, Ambisonics

Further Education

2018 - **Spatial Audio
Summer Seminar**, EMPAC,
New York, Jul 9-13

2022 - **Binaural Auditory
Display**, Interactive
Sonification Workshop (ISon),
Delmenhorst, Sep 22-23

Selected Performances

tch (Live Electronics)

- 01.08.2025 - *Transferans Gallery Echoes #2*, Errant Sound, Berlin
- 05.12.2024 - *Taming the City*, Errant Sound, Berlin
- 10.05.2024 - *Transferans Label Night #11*, ACUD, Berlin
- 03.05.2024 - *Echoing Dimensions*, Kunstraum Potsdamer, Berlin
- 26.04.2023 - *Fundraiser for Communities Affected by the Earthquake in Syria/Turkey*, Arkaoda, Berlin

SOFTER (Live Electronics)

- 24.03.2024 - *Variable Cloudiness*, Cashmere Radio, Berlin

Das Schwarz des Birkenspanners by Amelie von Godin (Live SFX)

- 9-12.03.2023 - HfS Ernst Busch, Berlin

P.W.A.H (Live Electronics, with Roberta Stein)

- 15.11.2024 - *Im Sog Des Waldes*, Fotogalerie Friedrichshain
- 19.11.2022 - *Impromptu Series*, ACUD, Berlin

double-lined (Live Electronics)

- 20.11.2021 - Schloss Schönow, Brandenburg

die Zofen by Amelie von Godin (Sound Design & Composition)

- 28 & 29.09.2021 - HfS Ernst Busch, Bühne UNTEN, Berlin

nötr (Fixed Multi-Channel) 41' 46"

- 06.08.2018 - *International Computer Music Conference (ICMC)*, Daegu, South Korea
- 18.07.2018 - *New York City Electroacoustic Music Festival (NYCEMF)*, New York
- 26.06.2018 - *Kaleidophone: New Multichannel Electronic Music from MIAM*, Arter Gallery, Istanbul
- 20.04.2018 - *nötr: 43-channel acousmonium / an evening of electronic music*, EMPAC, New York
- 10.04.2018 - *[ART_X] Pop-up Concert*, RPI Playhouse, New York
- 04.04.2018 - *3rd Collaborative Electroacoustic Music Concert*, University of Buffalo, New York

Çizgi Film Kusagi / Cartoon Time (Live Electronics) ~20'

- 28.12.2017 - *Çünkü Siz Buna Değersiniz*, Peyote, Istanbul

taalq (Generative Quadraphonic) ~17'

- 04.05.2017 - Collar Works Gallery, New York
- 04.04.2017 - Bennington College, Vermont
- 28.02.2017 - Bard College, New York

ob/lik (Live Electronics, with G. Özdemir)

- 30.04.2016 - *A.I.D Room #5*, Moda, Istanbul
- 26.04.2016 - *Radio Patapoe*, OT301, Amsterdam
- 24.04.2016 - *SOTU Festival*, Butcher's Tears, Amsterdam
- 20.03.2016 - *MultiRAID Festival*, Arkaoda, Istanbul

Monad (Networked Audiovisual)

- 26.12.2015 - *A.I.D Room #2*, Private Venue, Istanbul
- 24.05.2015 - *Electronic Music Composition 2015*, Arkaoda

AAA(...)AAA (Electroacoustic/Live Diffusion) 5' 01"

- 16.10.2015 - *MIAM Electroacoustic Retrospective*, Maçka
- 01.06.2014 - *Electronic Music Composition 2014*, Arkaoda

Awards & Grants

MUSIKFONDS e.V.

- 2025
Project Funding
2022-2023
Research Stipend
2021
Project Funding

RPI-HASS

- 2018 - 2020
Research Stipend
2017 & 2018
Production Grant

Web Audio Conference

- 2019
Best Paper Award

Installation

- Harmonic Motion (in F#)*
Tanzhalle Wiesenburg
2025, Oct 30-Nov 2

- Beating Variations: 60-80Hz*
Kulturquartier Bethanien
31.01-04.02.2025
frei-raum.berlin
16-18.05.2024

- u-ton*
Gallery Periode, Berlin
2023, Oct 20-22

- Oblique*
frei-raum.berlin
2022, Dec 1-4

- NO AXIS*
Gitter Raum, Essen
2021, Nov 5-7

- Codes of Light*
Contemporary Istanbul
2015, Nov 12-15

Art Residency

- 2021, Nov 15-21
Parallel Residency
Schloss Schönow, Brandenburg

- 2018, Jan 8-16 & Apr 16-20
Acousmonium
EMPAC, New York

Papers & Publications

Çakmak, Cem. "Infrastructures for Immersion: Institutional Mediation of Spatial Audio." *Most Wanted: Music Research*, 13 November 2025.

Çakmak, Cem. "Implementing Ignorance and Unlearning Methods to AI Music Systems." *CTM Festival Research and Networking Day (Module 3)*, 29 January 2023.

Çakmak, Cem, and Rob Hamilton. "od: Composing Spatial Multimedia for the Web." *Journal of the Audio Engineering Society* 68, no. 10 (November 30, 2020): 747–55.

Çakmak, Cem, and Robert Hamilton. "Composing Spatial Music with Web Audio and WebVR." In *Proceedings of the Web Audio Conference*. Trondheim, Norway, 2019.

Çakmak, Cem, Anil Çamci, and Angus G. Forbes. "Applying Game Mechanics to Networked Music HCI Systems." In *New Directions in Music and Human-Computer Interaction*, edited by Simon Holland, Tom Mudd, Katie Wilkie-McKenna, Andrew McPherson, and Marcelo M. Wanderley, 223-41. Springer Series on Cultural Computing. Cham: Springer International Publishing, 2019.

Çakmak, Cem, "Theory and Technique of Super High Frequency Lighting," Artist Talk in *Proceedings of the International Symposium on Electronic Art*, Manizales, Colombia, 2017.

Keil, Nathan, Huang, Min and Çakmak, Cem, "Designing Immersive Audiovisual Environments for Music Performers with Disabilities," In *Proceedings of the 5th Annual International Symposium on Adaptive Technology in Music and Art*, Troy, NY, 2017.

Çakmak, Omer C. and Hamilton, Rob, "Musical Sonification of Super High Frequency Lighting", In *Proceedings of the International Computer Music Association Conference*, Shanghai, China, 2017.

Çakmak, Cem, Anil Çamci, and Angus G. Forbes. "Networked Virtual Environments as Collaborative Music Spaces." In *Proceedings of the International Conference on New Interfaces for Musical Expression*, 106–11. Brisbane, Australia, 2016.

Çakmak, Ömer C., Çamci, Anil and Forbes, Angus G. "Using Game Mechanics to Facilitate Networked Musical Collaboration," *CHI 2016 Music and HCI Workshop*, San Jose, CA. May 2016.

Çakmak, Ömer C. and Çamci, Anil. (2015) "Online Gaming as a Model for Network Music Systems," *ISCRiM Student Conference on Music Multimedia and Electronics 2015*, University of Leeds, Leeds, UK. June 15, 2015.

Academic Service

2023 - Present
Max Consultant & Beta Tester Cycling74

2022 - Present
Member
CHIME-ESPRC Music and HCI Research Network

2019 & 2021
Guest Jury for Computation Based Basic Design
Istanbul Bilgi University

2019
Reviewer
International Computer Music Conference (ICMC)

References

Dr. Robert K. Hamilton
Associate Professor, Arts
Department Head,
Rensselaer Polytechnic
Institute
hamilr4@rpi.edu

Dr. Anil Çamci
Assistant Professor of
Performing Arts Technology,
University of Michigan at Ann
Arbor
acamci@umich.edu

Dr. Reuben de Lautour
Assistant Professor of Sonic
Arts, Istanbul Technical
University
lautour@itu.edu.tr