

Cem Çakmak, PhD

Address: Weserstraße 191, Berlin 12045

Contact: +4915731099509 | contact@cem.works | www.cem.works

Birthdate: 03.09.1990

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, 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 Çamci
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, 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, Adobe Premiere, Adobe After Effects, Final Cut, AutoCAD

Operating Systems:

OS X, Windows, Linux, iOS

Performance:

Guitar, Piano, Percussion, Live-Electronics, Ambisonics

Further Education

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

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

Selected Performances

Untitled (Live Electronics)

26.04.2023 - *Fundraiser for Communities Affected by the Earthquake in Syria/Turkey*, Arkaoda, Berlin

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

9-12.03.2023 - HfS Ernst Busch, Bühne UNTEN, Berlin

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

19.11.2022 - *Impromptu Series*, ACUD Club Raum, Berlin

double-lined (Live Electronics)

20.11.2021 - Schloss Schönnow, 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

Çakmak / Özdemir (Live Electronics)

27.06.2018 - *A.I.D Takes Over!*, Muaf/Peyote, Istanbul

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

NULL-NULL (Acousmonium) 3' 42"

21.05.2015 - *MIAM Sonic Arts Acousmonium*, Maçka, Istanbul

Tufan (Guitar & Live Electronics) 7' 40"

24.12.2013 - *How Do You Turn This On?*, MIAM Studios, Istanbul

Awards & Grants

2022 - 2023

Research Stipend
Musikfonds e.V.

2021

Project Funding
Musikfonds e.V.

2018 - 2020

HASS Research Fellowship
Rensselaer Polytechnic Institute

2019

Best Paper Award
Web Audio Conference

2017 & 2018

HASS Production Grant
Rensselaer Polytechnic Institute

Installations

2022, Dec 1-4

Oblique
frei-raum.berlin, Berlin

2021, Nov 5-7

NO AXIS
Gitter Raum, Essen

2015, Nov 12-15

Codes of Light (Audio)
Contemporary Istanbul

Art Residency

2021, Nov 15-21

Parallel Residency
Schloss Schönnow, Brandenburg

2018, Jan 8-16 & Apr 16-20

Acousmonium
Experimental Media and Performing Arts Centre (EMPAC)

Academic Service

2019 & 2021

Guest Jury for Computation Based Basic Design
Istanbul Bilgi University

2019

Reviewer
International Computer Music Conference (ICMC)

Papers & Publications

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.

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.

References

Dr. Robert Kyle Hamilton
Associate Professor of Music and Media, 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
Senior Lecturer and Head of New Music, University of Canterbury
reuben.delautour@canterbury.ac.nz