Cem Çakmak, PhD

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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, ChucK, 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 - *Impromtu Series*, ACUD Club Raum, 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

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
2021
Project Funding
MUSIKFONDS e.V.

2018 - 2020
Fellowship
2017 & 2018
Production Grant
RPI-HASS

2019
Best Paper Award
Web Audio Conference

Installations

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

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 Schönow, Brandenburg

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

Academic Service

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

2019
Reviewer
International Computer Music Conference (ICMC)

2023 - Current
Max Beta Tester
Cycling74

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.

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.

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