

SINEM SEMSIOGLU



PHD STUDENT AT KOC UNIVERSITY

Skills & Abilities

Programming: Java (and Processing framework), JS, Matlab, C++, C#, Python

Languages: Turkish (native), English (fluent), French (B2), German (A1)

Contact

Koc Universitesi,
Rumeli Feneri Yolu,
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Education

Koc University, Istanbul

Fall 2016- present

PhD, Koc University Arcelik Research Center for Creative Industries

GPA: 3.97

Currently exploring emotion-based interaction design possibilities in Augmented Reality.

Some relevant fields are affective computing, machine learning, data visualization.

Relevant Coursework: Computer Vision, Machine Learning, Linear Systems Theory

Oberlin College, Oberlin, OH

Fall 2011- Fall 2014

Undergraduate, Received JF Oberlin Scholarship

GPA: 3.23

B.A in Mathematics, GPA: 3.41

B.A. in Computer Science, GPA: 3.26

Carnegie Mellon University, Pittsburg, PA

Summer 2014

Summer Undergraduate Applied Mathematics Institute

GPA: 4.00

Courses: Mathematical Finance, Programming Methods

Budapest University of Technology and Economics, Budapest

Spring 2014

Budapest Semester in Mathematics Study Abroad Program

GPA: 3.42

Courses: Number Theory, Quantum Information and Logic, Advanced Combinatorics, Theory of Computing

Bogazici University

Summer 2013

Summer School

Courses: Introduction to Database Systems, Computer Architecture

Experience

Teaching Assistant at Koc University, Istanbul

Fall 2016- Spring 2017

Was an assistant for Basic Design and Creative Thinking in Design courses.

Software Developer at Monitise MEA, Istanbul

September 2015- October 2016

Developed a responsive website for Pegasus Airlines using AngularJS, HTML5, Less. Experience in node.js, JAVA Spring framework, writing Yeoman generators.

Undergraduate Researcher at CMU, Pittsburgh

Summer 2014

My research was focused on Hausdorff Metric Space. I explored the geometry of the space and produced results on finite configurations.

Mathematics Tutor at Oberlin College, Oberlin

Fall 2011- Fall 2014

Held evening office hours for Calculus I and II. Done 1-1 tutoring for Calculus I, II and Discrete Mathematics courses.

Computer Science Lab Assistant at Oberlin College, Oberlin

Fall 2012

Assisted students for Principles of CS I and II courses in class' lab hours and evening help sessions.

Conference Papers

Emotionscape: Mediating Spatial Experience for Emotion Awareness and Sharing, CHI 2018

We bring the concepts of emotional self-awareness and emotion sharing to the problem space of Mixed Reality and by adding our observations on the influence of the physical space on emotions, we speculate whether we can mediate the spatial experiences of collocated people to increase their emotional self-awareness and ease emotion sharing between them. Our study is structured around a conceptual system we designed, one that mediates the spatial attributes of the surroundings according to the user's and collocated people's emotional states. After the initial ideation of the concept, we built a prototype application for HoloLens. We then conducted a 2-legged user study with 12 participants; first we gathered data using an online survey, followed by a study with thinking aloud protocol using the prototype. We believe that the results and discussion we provide in this paper will be useful in development of emotionally aware Mixed Reality systems.

Emotionally mediated spatial experience with AR, VRST 2017

This paper speculates and explores how emotional awareness and communication can be enhanced with the mediation of spatial experience. Based on two exploratory user studies, we designed and prototyped a conceptual system that mediates the spatial attributes of the surroundings according to user's choices and their emotional state. We then conducted user studies with the prototype. We contribute to existing literature by sharing our insights into potential use cases and implications of an emotionally responsive space.