

# EUNJEONG STELLA KOH

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## EDUCATION

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### UC San Diego

Ph.D. in Computer Music (Specialization: Artificial Intelligence)

San Diego, CA

Sep.2016-Present

### Seoul National University

M.S. in Engineering (Specialization: Human-Computer Interaction)

Seoul, Korea

Mar.2012-Feb.2014

### Ewha Womans University

B.S. in Computer Science and Engineering

Seoul, Korea

Mar.2008-Feb.2012

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## RESEARCH INTEREST

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Machine Learning, Statistical Modeling, Music Information Retrieval, Music Cognition, Human-Computer Interaction

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## EMPLOYMENT

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### Adobe

Creative Intelligence Lab Intern. Mentor: Timothy Langlois

Seattle, WA

Jun.2020-Sep.2020

### Qualcomm

Audio Research Intern. Mentor: Yinyi Guo

San Diego, CA

Jun.2019-Sep.2019

### Gracenote

Applied Research Intern. Mentor: Robert Coover

Emeryville, CA

Jun.2018–Nov.2018

### Smule

Audio Engineering Intern. Mentor: John Shimmin

San Francisco, CA

Jul.2017–Sep.2017

### Center for Research in Entertainment and Learning, UC San Diego

Research Assistant. Mentor: Shlomo Dubnov

San Diego, CA

Sep.2016–Present

### Software R&D Center, Samsung Electronics

Assistant Engineer

Suwon, Korea

Mar.2014–Jul.2015

### Music & Audio Research Group, Seoul National University

Research Assistant. Mentor: Kyogu Lee

Suwon, Korea

Jan.2012–Feb.2014

### Music Service Team, Naver Corporation

Winter Intern

Seongnam, Korea

Jan.2013–Feb.2013

### Interactive VR/AR Media Lab, Ewha Womans University

Research Assistant. Mentor: Yanghee Nam

Seoul, Korea

Jun.2010-Sep.2010

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## PUBLICATIONS

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### [6] Open-set Evolving Acoustic Scene Classification System

Fatemeh Saki, Yinyi Guo, Cheng-Yu Hung, Laehoon Kim, Manyu Deshpande, Sunkuk Moon, **Eunjeong Stella Koh**, & Erik Visser.  
*DCASE 2019: Detection and Classification of Acoustic Scenes and Events 2019.*

### [5] Rethinking Recurrent Latent Variable Model for Music Composition

**Eunjeong Stella Koh**, Shlomo Dubnov & Dustin Wright.

*MMSP 2018: IEEE International Workshop on Multimedia Signal Processing.*

### [4] Mugeetion: Musical Interface Using Facial Gesture and Emotion

**Eunjeong Stella Koh** & Shahrokh Yadegari.

*ICMC 2018: International Computer Music Conference.*

### [3] The Role of Musical Structure in Shaping Listener's preference.

**Eunjeong Stella Koh** & Min-ju Kim.

*SMPC 2017: Society for Music Perception and Cognition.*

### [2] From Music to Programming: Designing Method for Introductory Programming Using Musical Metaphor and Auditory Feedback.

**Eunjeong Ko.**

*Master's Thesis, Seoul National University, 2014.*

### [1] Using Music Notation for Teaching Computer Programming.

**Eunjeong Ko** & Kyogu Lee.

## PATENTS

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[2] Method of Recommending a Reply Message and Apparatus thereof.  
**Eunjeong Ko**, Deokho Kim, Haejun Lee & Seunghak Yu.  
2015 Formal Patent Application Issued, Korea Patent Application 20150123491.

[1] Method of Recommending a Reply Message and Apparatus thereof.  
**Eunjeong Ko**, Deokho Kim, Haejun Lee, Taeyeun Yang, Volodymyr Zubarev, Jihyun Rho & Hojin Jung.  
2015 Formal Patent Application Issued, Korea Patent Application 20150076488.

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## TEACHING

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**Teaching Assistant | University of California, San Diego** 2020  
Music 5: Sound in Time, Music 15: Interactive Music for Video Games and Other Media

**Teaching Assistant | University of California, San Diego** 2019  
Music 5: Sound in Time, Music 172: Computer Music II, Music 7: Music, Media, and Technology

**Teaching Assistant | University of California, San Diego** 2018  
Music 206: Deep and Shallow (Generative artistic applications of machine learning)

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## PROFESSIONAL SERVICE

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Conference Reviewing

**International Conference on Acoustics, Speech, and Signal Processing (ICASSP)** 2019  
**International Computer Music Conference (ICMC)** 2019

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## EXHIBITIONS

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[2] Hearing Seascape.  
**Eunjeong Koh**, Lauren Jones & Lei Liang.  
*UC San Diego, Initiative for Digital Exploration of Arts and Sciences 2018 (IDEAS, CALIT2).*

[1] HyperFish.  
**Eunjeong Ko**, Yanghee Nam & Taiyun Kim.  
*Incheon International Digital Media Art Festival 2010 (Augmented Reality Application Exhibition).*

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## SKILLS

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Proficiency in **Python, Java, Objective C, Matlab, C, C# & ActionScript.**

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## HONORS & AWARDS

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**7<sup>th</sup> Interdisciplinary Research Awards** 2019  
University of California, San Diego

**Google Anita Borg Scholarship** 2013  
Google

**Software Maestro Scholarship** 2011  
Ministry of Knowledge Economy in Korea

**Student Portfolio Competition** 2011  
2<sup>nd</sup> Place, awarded by Department of Engineering, Ewha Womans University

**Ewha Womans University Scholarship** Mar.2010-Feb.2012  
Merit-based scholarships for 4 semesters

**Independent Study Scholarship** Mar.2009-Feb.2012  
Research grant awarded by Noyeop Cultural Foundation

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## REFERENCES

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**Shlomo Dubnov**, s.dubnov@ucsd.edu  
Professor, UC San Diego