

# **gülnihan atay**

(barch), architect, acoustical consultant  
mezzo stüdyo architectural acoustics, design and consulting

gulnihan@mezzostudyo.com

## **education and academic degrees**

master of science, department of architecture grad. program, ihsan doğramacı bilkent university, ankara,  
2019 – ongoing  
cgpa; 3.83/4.00, high honours  
thesis proposal – “acoustical characterization of clay pots in ottoman architecture through experimental and  
numerical analysis methods”  
supervisor: assoc. prof. dr. zuhre sü gül

bachelor of architecture ihsan doğramacı bilkent university, ankara,  
2015-2019  
cgpa; 3.35/4.00 , honours

## **professional employment**

acoustical consultant, mechanical engineer, mezzo stüdyo ltd, ankara,  
2022 – ongoing

## **academic employment**

teaching assistant, department of architecture ihsan doğramacı bilkent university, ankara  
2019-2022

## **articles in EDITOR-REVIEWED journals**

Atay, G., and Sü Gül, Z. “Clay Pots of Ottoman Architecture: Acoustics, Structure and Ventilation” Proceedings of Meetings on Acoustics, 42, 015003 (2020): 1-12. <https://doi.org/10.1121/2.0001387>

## **conference presentations and refereed proceedings**

Atay, G. "Clay Pots as Cavity Resonators in Ottoman Architecture." Sound, Space, and the Aesthetics of the Sublime. CCRMA, Stanford University. 2022. Poster presentation.

Atay, G. and Sü Gül, Z. "Investigation of the Acoustical Properties of the Clay Pottery Employed in the Dome of Süleymaniye Mosque." Proceedings of 14th National Acoustics Congress (TAKDER), İstanbul Bilgi University, İstanbul, Turkey, (Virtual), 7-8 October 2021, pp. 341-352.

Atay, G. and Sü Gül, Z. "Clay Pots in Ottoman Architecture: A Discussion on Their Acoustical Employment" 179th Meeting of the Acoustical Society of America, Acoustics Virtually Everywhere, 7-11 December 2020. The Journal of the Acoustical Society of America 148, 2797 (2020). Published online: 03 December 2020.

## other publications

### M.Sc. Theses

"predictions on absorption and scattering characteristics of acoustic scatterers modified with micro perforated panels", september 2012, middle east technical university (METU), ankara, turkey

## awards / fellowships

student grant award recipient, selected by the committee for international research and education (cire) of the acoustical society of america (ASA), 2022.

graduate teaching assistant fellowship, ihsan doğramacı bilkent university, 2019-2022

## exhibitions

"prague on the cusp of change" organized by the embassy of the czech republic in ankara, architectural institute in prague (ARCHIP) and ihsan doğramacı bilkent university in cermodern (september, 2019)

"basamaklar exhibition" organized by the turkish association of architects in private practice (TSMD) (october, 2019)

## memberships / affiliations

student member of acoustical society of america (ASA)

member of acoustical society of turkey (TAKDER)

## languages

**Turkish**, advanced level of written and spoken language - full professional proficiency (native)

**English**, advanced level of written and spoken language - full professional proficiency

## skills

### acoustic design tools

odeon, insul, zorba, dirac

### cad / modeling tools

autocad, sketchup

### editing tools

ms office, adobe illustrator, adobe photoshop,

### research interests

architectural acoustics

### personal skills & interests

registered equestrian (AASK, 2014)

visual arts (painting in soft pastel and acrylics)