Sophia Mehdizadeh

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
M.S. in Music Technology, *Brain Music Lab*   Dec 2021
- Relevant Coursework: Music Perception & Cognition, Audio Software Eng., Statistical Modeling & Regression, Digital Signal Processing, Interactive Music
- GPA: 4.00 / 4.00

University of Michigan   Ann Arbor, MI
B.S.E. in Electrical Engineering, Music Minor   Apr 2018
- GPA: 3.35 / 4.00
- Concentration: analog/digital signal processing, analog circuit design/analysis

PROFESSIONAL EXPERIENCE

Georgia Institute of Technology, School of Music   Atlanta, GA
Graduate Research Assistant, Brain Music Lab   Jan 2020 – Present
- Design and conduct **behavioral human-subjects research** to study interactions of music, mood, and memory
- Explore physiological correlates of **musical preference** through analyses of preference models and **PPG/respiration** biosignals
- Manage lab equipment and mentor incoming students

Summer Teaching Assistant   May – July 2020
- Tutored and graded for Intro to Music Theory, including one-on-one help with notation and aural skills

Mitsubishi Electric Automotive America   Northville, MI
Audio Engineer, Advanced Development   June 2018 – Jan 2020
- Managed custom interior electrical and mechanical modification of Consumer Electronics Show demo vehicle
- Performed **ITU-T hands-free parameter tuning** for infotainment production projects
- Communicated with customers, 3rd party suppliers, and team members locally and internationally

Audio Video Communications Engineering Intern   May – July 2017
- Increased vehicle interactivity by integrating the **Internet of Things**, virtual assistants, and **cloud computing (AWS)** into projects
- Interfaced JavaScript and Python code on **Raspberry Pi** with vehicle hardware and Controller Area Network Bus (**CAN Bus**)

PROJECT AND LEADERSHIP EXPERIENCE

Women in Music Technology @ Georgia Tech   Atlanta, GA
Chartering Leader   Aug 2021 – Present
- Create a community for women to network and find support as a minority in the academic and professional field of Music Technology.
- Assess organization goals, delegate tasks, and coordinate with faculty and student body

CONFERENCES & PUBLICATIONS

- ICMPC, *Novel Methodologies for Secondary Analyses of Physiological and Musical Preference Data*   July 2021

AWARDS

- CABI MRI seed grant recipient (*Using Music to Modulate Emotional Memory*)   Apr 2021
- Winner of 2021 Moog Music Hackathon (*Magnebacus*)   Feb 2021

SKILLS

Computer Applications
- MATLAB, Simulink, C/C++, Python, JUCE, Visual Studio, Minitab, SPSS, R
- Ableton, Logic, Reaper, MaxMSP, ChucK
- Microsoft Office (Word, Excel, PowerPoint)

Design, Fabrication & Prototyping
- Basic shop tools, Mill, Lathe, Laser Cutting, 3D Printing, Soldering, Arduino, Raspberry Pi
- PCB design (Eagle, Altium), CAD (SolidWorks, AutoCAD)

Electronic Test/Measurement Equipment
- Digital Multimeter, Oscilloscope, Function Generator

Languages
- Fluent in Greek, moderate knowledge of Spanish