

HUGH BIRKY

Research Assistant

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Summary

Otolaryngology Research Assistant with demonstrated success in fast-paced research environment. Hoping to use my knowledge of data management, coding, and research towards a career of innovation in the science of audio or data analysis. To enhance knowledge and skills in data and audio processing techniques.

Experience

Research Assistant

Vanderbilt University Medical Center

05/2023 – Present Nashville, TN

- Oversee technical operation of lab equipment and software including optimization of workflows by automating tasks and data management using R and Python
- Organize, process, and manipulate data for visualization and analysis using interactive applications for inclusion in research papers and presentations
- Conducted research protocol with cochlear implant participants by utilizing and design tasks in MATLAB, Inquisit, and Gorilla Experiment Builder
- Managed intake, outreach, and recruitment for participation in lab experiments. Answered questions and assisted participants with technical issues during experiment.
- Facilitated and developed research projects including eye tracker technology, online dashboard tasks for better remote testing, and training protocol design for foreign accent discrimination.

Adjunct Professor

Belmont University

06/2023 – 12/2023 Nashville, TN

- Researched and created efficient curriculum for video game audio and sound design in Unreal Engine
- Developed and delivered curriculum related for Sound Design and Visual Programming workshop and undergraduate course.
- Designed training modules for work with Audio in the Unreal Engine as part of graduate work and used in the course at Belmont University.

Education

Master of Science: Audio Engineering Technology

Belmont University

08/2021 – 04/2023 Nashville, TN

- Relevant Coursework: Research Design And Methods, Digital Signal Processing, Analog Systems Processing and Modelling, Auditory Perception and Hearing Science
- 4.0 GPA

Bachelor of Arts: Physics Engineering

Goshen College

08/2017 – 04/2021 Goshen, IN

- 4.0 GPA, Honor Roll
- Course Highlights:
 - TA and Zoom Manager for Accounting Courses
 - Study Service Term in Ecuador (January 2020-March 2020)

SKILLS

Data Management/Visualization R and R Studio Excel C++ MATLAB Python Github
Problem Solving Self Teaching Skills Time Management Research Procedures Unreal Engine

LANGUAGES

Spanish

Advanced



Japanese

Beginner



Passions

Competed on American Ninja Warrior

Volleyball

Close Up Magic

Language Learning