

GT Sonification Lab

The Georgia Tech Sonification Lab is looking for programmers. We are primarily seeking students who will work for credit this fall. There is a possibility of research funding in future semesters.

The Sonification Lab is located in the Coon Psychology building (near Tech Tower). We have several projects requiring a variety of skills. All students with programming and/or IT experience are encouraged to apply. Version control and bug tracking experience a plus. If you are interested, please prepare your resume and expect to fill out a short application. Please visit <http://sonify.psych.gatech.edu/opportunities>

Projects Include:

- **Affect Detection System.** An ADS gives a computer information about a participant's emotional state. Your task will be to install a third-party ADS. You will then build in hooks for the experimenters to use the ADS for experiments.
- **Android Auditory Graphs.** We are looking to expand auditory graphs research to the mobile platform. Your task is to create two thin clients for Android devices: a website and a native application.
- **Aquarium Database.** The aquarium project looks at making aquariums and informal learning environments more accessible to the visually impaired. Current research requires better data collection tools, including a database. Your job will be to build the database and hook it into the experimental apparatus.
- **Auditory Graphs and Statistics.** We are currently creating experiments for evaluating the use of accessible graphs for statistics courses. Your task will be centered on creating Director and Eprime programs that run in the experiment.
- **Auditory Graphs in the Classroom.** This project explores what sort of graphs visually impaired high school students use in their math classroom. It depends on using and prototyping a variety of graphing tools.
- **Auditory Use in Everyday Software.** This project is looking to determine the prevalence of sound use in everyday software. This uses a large dataset. Strong SQL and database architecture abilities required. Java and bash experience a plus.

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