

Miles Bi

Phone: (631) 245-7791

E-mail: miles.bi.jiayu@gmail.com

Education

Bachelor of Science in Mathematics May 2023
University of Houston
Houston, Texas

Bachelor of Music in Composition May 2023
University of Houston
Houston, Texas

Projects

Windswept Banner

- Interpolated data from a numerically solved partial differential equation in MATLAB. Generated probability dependent audio based on parameters of the data. Created visualization of the solution and the interpolation in FFMPEG and Inkscape; exported as high-resolution video.
- Learned how to set up partial differential equations with appropriate boundary conditions and use probability in generation of content.

Question Solver

- Used Python to calculate answers to variations on questions about acid-base titrations and buffer solutions.
- Learned how to set up user input in Python and encompass all possibilities when writing code.

Relevant Coursework

Calculus I-III	Probability	Partial Differential Eqs.
Linear Algebra	Differential Equations	Technical Communication
Numerical Analysis		

Skills

LaTeX	MATLAB
Microsoft Office	Python

Honors

Dean's List	Fall 2019 – Fall 2021
Academic Excellence Scholarship Award	Fall 2019 – present
Moore School of Music Award	Fall 2019 – present