

Abigail Iovino

I am a soon-to-be graduate with a passion for math, problem-solving, technology, teamwork, and art.

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EDUCATION

University of Texas at Austin, Austin, TX

December 2022

- B.S. in Mathematics, B.A. in Plan II Honors, Certificate in Computer Science
- Foreign study at Uppsala University in Sweden for Mathematics (August 2019 - July 2020)
- Honors: *Magna cum laude* (three semesters), Undergraduate Research Award for Philosophy

GPA 3.8/4.0

Selected Coursework

Discrete Math (proof-based honors); Graph Theory (graduate); Linear Algebra (proof-based honors); Mathematical Logic; Probability; Scientific Computing; Statistics; Topology I & II

SKILLS

Programming Languages Python, HTML/CSS, Javascript, JQuery, PHP, Processing.js, Kotlin, Java

Libraries Matplotlib, NumPy, SimPy, pandas

Tools Android Studio, Git, LaTeX, Jupyter Notebooks

Communication Spanish (native), Italian (native), French (B2)

SOFTWARE PROJECTS

Interactive Game

- Collaborated with a peer to create an arcade-style game in **Processing.js**. User-controlled cone catches falling scoops of ice cream to fulfill incoming, randomized customer orders.
- Designed multiple GUI systems to control settings. Stored high scores in **CSV** file. Enabled data persistence.
- Won *Best Overall* and *Most Polished* out of 50 student projects.

Ultrasonic Pest Control App

- Engineered Android app using **Kotlin** and **XML** in **Android Studio** to repel pests with high-frequency sounds.
- Enabled screen navigation. Exercised internet and location permissions. Used GPS Manager and Volley to fetch from weather API to make recommendations to users.

Data Visualization

- Wrote **Python** script that reads from a text file and extracts unique words and their frequencies. Used **Processing.js** to read and visually represent the data from an Ernest Hemingway novel.

Image Manipulation

- Programmed two per-pixel and two convolution matrix filters to manipulate PNGs in Processing.js.

EXPERIENCE

Apricity Magazine, Austin, TX

2021

Executive Web Designer

- Redesigned website to meet modern aesthetic standards, and repaired functionality issues in WordPress.
- Collaborated with editors from three departments to manage 100 accepted submissions per semester. Scheduled and regulated all online publications.

LEADERSHIP & COMMUNITY

Association of Women in Mathematics, Presenter Austin, TX

2017 - present

- Led seminar on typesetting in LaTeX, with a focus in writing mathematics in October 2018.

Disability Advocacy Student Coalition, Representative, Austin, TX

2020 - 2022

- Represented student body in university endeavor to build a Disability Cultural Center.

Girls Who Code, Austin, TX

2018 - present

Electronic Game Developers Society, Austin, TX

2022 - present

American Mathematical Society

2022 - present