

Abigail Iovino

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EDUCATION

The University of Texas at Austin, Austin, TX

December 2022

Bachelor of Science, Mathematics

Bachelor of Arts, Plan II Honors

GPA: 3.78

Certificate in Elements of Computing

Uppsala Universitet, Uppsala, Sweden

August 2019 - June 2020

Concentration in Mathematics

Relevant Coursework

- *Mathematics*: Probability, Linear Algebra, Differential Equations, Logic, Graph Theory (graduate-level)
- *Computer Science*: Web Programming, Mobile Computing, Graphics & Visualization

SKILLS

Technical Skills: Proficient in Python, Java, HTML, CSS, Javascript, JQuery, Processing.js; Familiar with Kotlin, Android Studio; Exposed to JSON, CSV, XML, SQL.

Languages: Fluent Spanish and Italian; Beginner French.

SOFTWARE PROJECTS

- **Interactive Game**: Created an arcade-style game in Processing.js. Keyboard interactivity moves a cone to catch falling scoops of ice cream and fulfill incoming customer orders. Designed multiple GUI systems to control background and volume. Stored high scores in a CSV file. Enabled data persistence. Showcased at the Game Development and Design Level Up event.
- **Ultrasonic Pest Control App**: Designed and built an Android app to emit high frequency sounds and repel pests using Kotlin and XML in Android Studio. Enabled screen navigation. Exercised internet and location permissions. Used Volley to fetch from a weather API and manage recommendations to users.
- **Novel Visualization**: Wrote a Python script that reads a text file and extracts all words, unique words, and word frequency into another text file. Created a visual representation in Processing.js to capture the relationship between word frequency and occurrences.
- **Image Manipulation**: Programmed two per-pixel and two kernel/convolution matrix filters to manipulate images in Processing.js.

EXPERIENCE

Apricity Magazine, Austin, TX

August 2021 - January 2022

Executive Web Designer

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

LEADERSHIP & COMMUNITY INVOLVEMENT

Disability Advocacy Student Coalition, Austin, TX

August 2020 - December 2021

Student Representative

- Represented the student body in the university's endeavor to build a Disability Cultural Center on campus. Assisted monthly meetings with university faculty and staff, as well as weekly meetings with student body.

Mathematical Association of America, Washington D.C.

June 2020

Department Student Nominee

- Awarded membership to world's largest, professional society of math-enthusiasts.

Association of Women in Mathematics, Austin, TX

October 2018

Presenter

- Led an informal seminar on typesetting in LaTeX, with a focus in writing mathematics.