Abigail Iovino

Recent graduate with a passion for math, problem-solving, technology, teamwork, and art.

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EDUCATION

University of Texas at Austin   December 2022
B.S. in Mathematics, B.A. in Plan II Honors, Certificate in Computer Science   GPA 3.8
Foreign study at Uppsala University in Sweden for Mathematics (2019 - 2020)

Honors
Magna cum laude (three semesters), Special Honors Senior Thesis, Undergraduate Research Award for Philosophy

Selected Coursework
Discrete Math (proof-based honors); Economics; Graph Theory (graduate); Linear Algebra (proof-based honors);
Mathematical Logic; Probability; Scientific Computing (current); 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 to create an arcade-style game in **Processing.js** where a 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 20 student projects.

Ultrasonic Pest Control App
- Built an 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 user recommendations.

Data Visualization
- Wrote a **Python** script that reads from a text file and extracts the frequency of each word.
- Used **Processing.js** to read and visually represent data from an Ernest Hemingway novel.

EXPERIENCE

Kate Catterall, UT Austin School of Design and Creative Technologies, *Austin, TX*   2022
Mobile UX Designer
- Researched client needs and target audience for GIS (Geographic Information System) app that celebrates resilience and commemorates the unique history of Belfast, Ireland.
- Created a wireframe in Figma that maintained design continuity of website and graphics.

Apricity Magazine, *Austin, TX*   2021
Web Designer
- Redesigned website to meet modern aesthetic standards. Repaired functionality issues in WordPress.
- Collaborated with editors from three departments to manage 100 accepted submissions per semester.
- Managed online publications.

LEADERSHIP & COMMUNITY

Association of Women in Mathematics, Presenter *Austin, TX*   2017 - 2022
- 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*   2019 - 2022