Abigail Iovino

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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　　　GPA 3.8/4.0
- Foreign exchange at Uppsala University in Mathematics (August 2019 - July 2020)
- Distinctions: *Magna cum laude* (three semesters), Undergraduate Research Award for Philosophy, Competitive Scholarship (2021 & 2022), Swedish Excellence Endowment Scholarship (2019 & 2020)

Selected Coursework:
　Mathematics: Abstract Algebra, Differential Equations; Discrete Math (honors); Graph Theory (graduate); Linear Algebra (proof-based honors); Logic; Probability; Real Analysis; Statistics; Topology I & II
　Computer Science: Android Development; Graphics & Visualization; Human-Computer Interaction; IT, Organisation and Ethics (graduate); Scientific Computing (current); Web Programming

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), Academic Writing, Public Speaking

SOFTWARE PROJECTS

- **Interactive Game**: Created 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**: Built 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.
- **Novel Visualization**: Wrote **Python** script that reads from a text file and extracts unique words and their frequencies. Visually represented the relationship between word frequency and occurrences in **Processing.js.**
- **Image Manipulation**: Programmed per-pixel and convolution matrix filters to manipulate PNGs in **Processing.js.**

EXPERIENCE

Apricity Magazine, *Austin, TX*　　　　　　　　　　　　　　　　　August 2021 - January 2022
　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*　　　　　　　　October 2018 - present
- Led seminar on typesetting in LaTeX, with a focus in writing mathematics in October 2018.

Disability Advocacy Student Coalition, Representative, *Austin, TX*　　　　August 2020 - January 2022
- Represented student body in university endeavor to build a Disability Cultural Center.
- Attended monthly meetings with faculty and staff and weekly meetings with students.

Girls Who Code, Member, *Austin, TX*　　　　　　　　　　　　　　　　　August 2022 - present
Electronic Game Developers Society, Member, *Austin, TX*　　　　　　　　August 2022 - present
American Mathematical Association, Member　　　　　　　　　　　　　September 2022 - present