Katelyn Morrison

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Education

B.S. in Computer Science | Certificate in Sustainability   May 2021

> *Relevant Coursework:* Data Structures (Java ~ Fall '18), Discrete Structures (Fall '18), Philosophy of Artificial Intelligence (Fall '18), Current Issues in Sustainability (Fall '19), First Experiences in Research (Spring '19), Algorithm Implementations (Java ~ Spring '20), Smart Cities (Spring '20), Research Methods Seminar w/ Study Abroad Trip to Manizales, Colombia (Spring '20 & Maymester '20)

Research

Undergraduate Student Researcher   January 2020 – June 2020
Center for Latin America Studies: University of Pittsburgh   *Advisor: Dolores Lima*

* Learning methods of formal research including creating a researchable question, representing data, conducting research, and making novel insights for conclusions.
* Creating and conducting individual research project in Spanish in Manizales, Colombia
* Research topic: How and to what extent does smart city infrastructure or initiatives relating to smart mobility and Wi-Fi impact or change the daily life of local citizens?

Undergraduate Student Researcher/Developer   August 2019 - Current
Swanson School of Engineering: University of Pittsburgh   *Advisor: Dr. William Clark*

* Gained understanding with how to use methods in the OpenCV library to perform live object detection and tracking
* Worked on a collaborative team of a designer/hardware engineer and a project manager. Developed way to calculate an angle of flexibility of a patient's torso.
* Exposed to project management (deadlines, code reviews, Gant charts).

Undergraduate Student Researcher   January 2019 – May 2019
Studio Arts Department: University of Pittsburgh   *Advisor: Prof. Jeremy Boyle*

* Analyzed the different variations of PPI (points per inch) settings on a laser cutter to see how it affected the outcome of etching and engraving clipart, text, and images in RGB and grayscale on given materials.

Undergraduate Student Researcher   October 2017 – May 2018
Chemistry Department: Moravian College   *Advisor: Dr. Shari Dunham*

* Mentored and collaborated with Dr. Shari Dunham on a personal research project that we were both passionate about, but I was the driving force behind its creation.
* Met weekly to bi-weekly to plan next steps, research methods, and data analysis.
* Researched the impact of recycling signage in freshman residence halls in hopes to discover ways to encourage the student body to do a better job at recycling in their dorms and around campus.

Experiences

University Innovation Fellow   August 2019 - Current
Stanford University d.School & University Innovation Fellowship
- * Participated in a 6-week intensive training through the Stanford d.School on design thinking, rapid prototyping, innovation, and entrepreneurship.
- * Worked with 3 other students at my university to research what the innovation and entrepreneurial atmosphere on our campus looked like.
- * Grew professionally and intellectually through navigation of University of Pittsburgh current infrastructure for innovation. Final project: University-wide interdisciplinary I&E certificate program.

Makerspace Student Employee   August 2018 - Current
Open ab @ University of Pittsburgh | University Center for Teaching & Learning
- * Initiated increased student participation at on campus maker space. Created student run workshop series on the resources that are offered in the lab.
- * Creating documentation, training, guides and policies for the new space with a full-time worker.
- * Experienced in the following: laser cutter, 3D printer, vinyl cutter, Adobe Illustrator virtual reality, heat press, etc.

Events Attended

- * Neural Information Processing Systems (NeurIPS) Conference   December 2019
- *Attendee*   *Vancouver, BC, Canada*
- * Doctoral Consortium for Computational Sustainability   October 2019
- *Attendee*   *Pittsburgh, PA, USA*
- * AI for Good: Local and Global Partnerships for Advancing Responsible AI
- * PyOhio 2019   July 2019
- *Attendee*   *Columbus, OH, USA*

Presentations

"Impact of Signage on First Year Residence Halls Recycling", Moravian College 13th Annual Undergraduate Student Scholarship and Creative Endeavors Day, presenter, Bethlehem PA, April 17th, 2018

"Dual Live Angle Calculation and Object Detection", University of Pittsburgh Science2019, presenter, Pittsburgh PA, October 17th, 2019

Honors and Awards

- * 2020 Conference Co-Chair Organizer   December 2019 - Current
- *Doctoral Consortium for Computational Sustainability 2020*
- * Adobe Research Women in Technology Scholarship Finalist   November 2019
- * Dare Mighty Things Hackathon Finalist [Chicago, IL]   October 2019
- * Events Coordinator for Sustainability Projects   September 2018 – May 2019
- *Student Office of Sustainability | University of Pittsburgh*
- * Emerging Leaders Scholarship Program   August 2017 – May 2018
- *Moravian College*
- * United Student Government Representative   January – May 2018
- *Moravian College*