KATELYN MORRISON

Katelyn.Morrison@pitt.edu ⋄ katelyncmorrison.com ⋄ github.com/katelyn98

EDUCATION

University of Pittsburgh   *August 2018 - May 2021*
B.S. in Computer Science & Certificate in Sustainability
Overall GPA: 3.7

Moravian College   *August 2017 - May 2018*
General Education Studies
Overall GPA: 3.91

PUBLICATIONS

Katelyn Morrison. 2020. "Reducing Discrimination in Learning Algorithms for Social Good in Sociotechnical Systems". AI for Social Good Workshop at IJCAI 2020. *To Appear.*

Katelyn Morrison, Daniel Yates, Maya Roman, and William W. Clark. 2020. "Using Object Tracking Techniques to Non-Invasively Measure Thoracic Rotation Range of Motion". In Proceedings of ACM ICMI (ICMI '20). *To Appear.*

RESEARCH & WORK EXPERIENCE

Undergraduate Research Assistant   August 2020 - December 2020
SmaSH (Smart Sensing for Humans) Lab   *Carnegie Mellon University - HCII*

Created Android Application that collects and labels sensor and video data when the phone recognizes that the user is in a vehicle. Labels recordings to identify context of user: driver or passenger. Working on creating an app to detect in real-time if the user is the driver or passenger.

Data Science Intern   June 2020 - August 2020
Lab41   *In-Q-Tel*

Created Plotly Dash App to visualize twitter data related to COVID-19. Performed experiments to identify a Python package that accurately detects the language of a Tweet.

Undergraduate Research Assistant   August 2019 - October 2020
Pitt XProjects   *University of Pittsburgh - Swanson School of Engineering*

Worked on an interdisciplinary team to design a system that non-invasively calculates thoracic rotation range of motion using computer vision techniques.

Student Researcher   January 2020 - May 2020
Center for Latin America Studies   *University of Pittsburgh*

Learned formal research methods such as creating a research question and creating surveys in Spanish. Understand how adults in Manizales, Colombia assess and evaluate the state and quality of the current bike sharing system Manizales En Bici to see how to increase ridership.

POSTERS & PRESENTATIONS

Evaluating the Fairness of Bike Sharing Programs Using Geospatial Analysis Computational Sustainability Doctoral Consortium 2020

Using Object Tracking Techniques to Non-Invasively Measure Thoracic Rotation Range of Motion Face and Gesture Analysis for Health Informatics Workshop at ACM ICMI 2020

Dual Live Angle Calculation to Determine Flexibility of Torso Using Computer Vision Science2019: Pitt's Annual Celebration of Science & Technology

Impact of Signage on First Year Residence Hall Recycling
13th Annual Moravian College Student Scholarship & Creative Endeavors Day

TEACHING

Undergraduate Teaching Assistant
School for Computing and Information

September 2020 - Present
University of Pittsburgh

UTA for Intro to CS for Scientists. Hold weekly lab sessions to walk through lab instructions, introduce examples of any concepts necessary that students are struggling with, hold office hours, and review students' labs for completion and correctness.

Workshop Lead & Student Technician
University Center for Teaching and Learning

August 2018 - May 2020
University of Pittsburgh

Makerspace workshop designer and leader for vinyl cutting. Responsible to teach any makerspace user how to use 3D Resin and Filament printers, laser cutters, Virtual Reality systems, and other minor tools. Helped create and formalize new student worker policy handbook as well as makerspace user handbook.

Tech Camp Instructor
iD Tech Camps

June 2018 - August 2018

Camp instructor for students ranging from the age 5 - 18. Taught programming concepts in Java, C++, HTML and JavaScript (using MicroBits), and Scratch. Responsible to create lesson plans, track learning progress of students and evaluate skills learned through a final project presentation.

LEADERSHIP

Doctoral Consortium Co-Organizer
Computational Sustainability Doctoral Consortium

November 2019 - Present
CompSustNet

Contributed to grant writing to submit an NSF grant for funding future events. Create talk schedule, introduce speakers and organize zoom logistics.

Sustainability Project Liason
Green Fund Advisory Board

October 2018 - May 2019
University of Pittsburgh Student Office of Sustainability

Assisted project leaders in funding and execution of running Zero Waste Events. Evaluated project proposals for funding based on potential impact on campus and contributions to campus sustainability.

Student Government Representative
United Student Government

November 2017 - May 2018
Moravian College

Elected student government representative to lead sustainability iniatives on campus. Participated in design conversations with Sysco during dining hall upgrades.

HONORS & ACHIEVEMENTS

Nationality Rooms Study Abroad Scholarship	February 2020
Pitt Study Abroad Office Scholarship	February 2020
Adobe Research Women in Technology Scholarship Finalist	November 2019
Stanford University Innovation Fellowship	October 2019 - May 2020
United Nations Academic Impact Group Millennium Fellowship	August 2019 - Dec. 2019
Emerging Leaders Scholarship Program (Moravian College)	August 2017 - May 2018

SKILLS

Experienced: Python, Java, HTML, CSS **Intermediate**: R, LaTeX, JavaScript, C, C++, ArcGIS **Novice**: PHP, SQL **Frameworks, APIs, Misc.**: Plotly, Plotly Dash, NumPy, Pandas, GeoPandas, OpenCV, Bootstrap, Google Maps API, Android Studio, MAMP