Marina L. Zafiris   mlzafiris@gmail.com *; 832-744-5002*

Research Interests

Data Science with special interest in utilizing machine learning for computational sustainability and interdisciplinary information sciences.

Education

University of Houston Downtown (UHD)   Expected Graduation- December 2020
Pursuing a B.S. in Data Science
- Minors in Applied Mathematics and Statistics
- Domain Focus in Sustainability

Cumulative GPA : 3.86

Research

Undergraduate Complexity Research, Santa Fe Institute   June 2020 - August 2020
- Utilizing Semantic Segmentation of Satellite Images to Analyze Firescars in the Western Australian Desert
[Additional Information](#)

Nuclear Regulatory Commission Grant Research, UHD   September 2019 - Present
- Employing Machine Learning in the Study of Differential Equations Related to Nuclear Engineering
[Additional Information](#)

Systems Engineering in Sustainable Solutions, SUSTAIN UHD   January 2020 - May 2020
- Mushroom Incubator Development for UHD's Center for Urban Agriculture & Sustainability
[Additional Information](#)

Texas Workforce Commission Grant Research, UHD   April 2019 - September 2019
- Utilizing Statistical and Machine Learning Models to Best Predict Graduate Level Admittance.
[Additional Information](#)

Presentations

Women in Data Science Houston Conference, Virtual   October 2020
- Poster Presentation. "Semantic Segmentation of Satellite Images: Firescars in the Western Australian Desert."

SACNAS – The National Diversity in STEM Conference, Virtual   October 2020
- Poster Presentation. "Employing Machine Learning in the Study of Differential Equations Related to Nuclear Engineering."

ACM Richard Tapia Celebration of Diversity in Computing Conference,Virtual   September 2020

- Poster Presentation. "Employing Machine Learning in the Study of Differential Equations Related to Nuclear Engineering."

UHD Scholars Academy Student Research Conference, Houston TX   April 2020
 - Poster Presentation. "Employing Machine Learning in the Study of Differential Equations Related
   to Nuclear Engineering."

Ken Kennedy Institute Data Science Conference, Houston TX   October 2019

 - Poster Presentation. "Utilizing Statistical and Machine Learning Models to Best Predict Graduate
   Level Admittance."

Great Minds in STEM, Orlando FL
                                                                           September 2019
 - Poster Display. "Utilizing Statistical and Machine Learning Models to Best Predict Graduate
   Level Admittance."

Honors and Awards
Certificates
 - Rice Ken Kennedy Institute Certificate in Machine Learning   August 2020
      *Fundamental of Machine Learning, Basic Methods, Deep Learning, and Advance Deep
      Learning and Reinforcement Learning*

Scholarship
 - ACM Richard Tapia Conference Scholarship, CMD-IT   August 2020
 - Nuclear Regulatory Commission Academic Grant, UHD Scholars Academy   August 2019
 - Academic Award Scholarship, UH   August 2016

Academic
 - UHD Dean's List   Spring 2019
 - UHD Dean's List
 - UHD Dean's List   Fall 2019

                                                                          Spring 2020
Competition

 - 2nd Place Tapia Undergraduate Poster Award   September 2020
      ACM Student Research Competition
 - Finalist Collegiate National Competition- Medical Innovation   June 2017
      Health Occupation Students of America
 - First Place Collegiate State Competition- Medical Innovation   April 2017
      Health Occupation Students of America

Organizations and Affiliations
SUSTAIN Scholars Program, UHD   January 2020 - August 2020
 - Campus Program Member

Society for Advancement of Chicanos and Native Americans in Science   September 2019 - Present
 - National Member

American Indian Science and Engineering Society   September 2019 - Present
 - National Member

Scholars Academy, UHD   August 2019 - Present

 - Campus Program Member

Association for Computing Machinery, UHD   August 2019 - Present
 - Campus Chapter and National Member

Health Occupation Students of America, UH   January 2017 - December 2017
 - Chapter Event and Volunteer Coordinator
 - National Member

Technical Experience
Languages: Python, RStudio, Julia, MATLAB, Unix shell scripts, HTML

Platforms & Systems: macOS, Microsoft Windows, Ubuntu Linux, Git/Github, Anaconda

Concepts: Data/Statistical Analysis and Visualization, Machine Learning

Work Experience
Center for Math and Statistics Peer Tutor, UHD   September 2019 - Present
 - Provide assistance to students in college level Mathematics and Statistics

Volunteer Experience
Python Learner Track Mentor, A&M Datathon   October 2019
 - Assist and mentor the competitors with their competition code

Scholars Academy Service Learning, Energy Day Houston   October 2019
 - Interacting and assisting kids with building robots and teaching them about circuits