Charles Gordon Sassaman

1203 Hardwood Ln   210.685.6638
College Station, Texas 77840   charles.sassaman@gmail.com

EDUCATION

Texas A&M University, College Station, Texas   Graduating May 2019

- Bachelor of Science in Meteorology
- Minor in Geographic Information Science & Technology
- Cumulative GPR: 3.60/ Major GPR: 3.78/ Minor GPR: 3.27
- Relevant Coursework: Web GIS, GIS Programming, Python for the Geosciences, Computer Applications in the Atmospheric Sciences, Radar Meteorology and Remote Sensing, Numerical Weather Prediction, Weather Forecasting Lab

EXPERIENCE

Department of Geography, Texas A&M University

GIS Programming Undergraduate Project   August – December 2018

- Collaborated with graduate students to automate ArcGIS Pro methods for a land-use suitability model in Python in an effort to reduce the need for a Graphic User Interface (GUI)
- Combined and debugged code from other team members to ensure a working product

Web GIS Undergraduate Project   January – May 2018

- Compiled raw data to create an interactive weather map using Python, ArcGIS Pro, and JavaScript
- Future work involves automating work flow for practical purposes as a possible graduate degree project

Department of Atmospheric Sciences, Texas A&M University

Undergraduate Research Assistant, Advisor: Dr. Chris Nowotarski   June – December 2019

- Created database of severe weather events in the Southeastern Region of the United States using MATLAB
- Analyzed the effect of high shear and low CAPE environments on supercell development

Student Operational Upper-Air Program (SOUP), Texas A&M University

Team Member   January – May 2017

- Launched upper-air balloons carrying radiosondes in support of requests by the National Weather Service to aid in critical forecast situations
- Provided forecasts to NASA CSBF Operations for crucial launches throughout the semester

LEADERSHIP

Texas A&M Campus Community Emergency Response Team

Founder and Chapter President   February 2018 – April 2019

- Chartered an organization that trains volunteers how to better respond in a disaster and teaches members basic emergency management practices
- Managed an executive board comprised of seven officers, maintained a budget, programed training events, and branched out to local organizations in efforts to better enhance their disaster preparedness capabilities

Texas A&M Student Chapter of the American Meteorological Society

Chapter Vice President   May 2018 – April 2019

- Coordinate spring and fall career education trips that expose members to various fields in meteorology
- Establish organization-wide service projects that assist the community year-round

CERTIFICATIONS

- Community Emergency Response Team Train the Trainer (License E/L/G-428)
- Community Emergency Response Team (License G-317)
- FEMA IS-100, IS-700, IS-800

SKILLS

- Advance Knowledge of Python (arcpy, pandas, cartopy, numpy, matplotlib, xarray, etc.)
- Knowledgeable of JavaScript, EVNI, HTML+CSS, MATLAB, Microsoft Suite
- Familiar with ArcGIS Pro, ArcGIS Online, Leaflet, Mapbox, Esri API, GitHub
- Ability to utilize NEXRAD products, numerical weather models, and observations to develop weather forecasts for any purpose