Rachel C. Saunders

rs1@uw.edu

Education

Sep 2019 Masters of Science, Geospatial Technologies, University of Washington Tacoma,

Tacoma, WA

May 2018 Bachelor of Science, Environmental Science and Geography; Minor, Political Science;

2nd Minor, Environmental Studies, Stetson University, DeLand, FL

Undergraduate Senior Research

• Drinking Water Quality Tests for Bacterial Coliform and Total Chlorine at Stetson University Major Professor: Dr. Wendy Anderson, Department of Environmental Science and Studies

Coursework and Research

Spring 2018 ENSS 499: Senior Seminar

Supervisor: Wendy Anderson, PhD

- Collaborated with Stetson University's Administration and Facilities Management
- Established the standards for water quality testing at Stetson by creating methods and protocols
- Collected and tested drinking water samples from 59 buildings across campus to address student concerns related to smell, taste, and skin irritations
- Presented research findings at Stetson University's annual Showcase Symposium

Fall 2017 ENSS 402: Landscape Ecology

Supervisor: Jason Evans, PhD

- Learned to use various landscape analysis tools: ESRI ArcGIS 10.3 software, IDRISI TerrSet, Maximum Entropy Species Distribution modeler (MaxEnt), and Sea Level Affecting Marshes Model (SLAMM)
- Developed an understanding of simple landscape concepts, theories, methods, and approaches towards conservation and planning
- Composed final project and determined appropriate model, TerrSet, that analyzed Florida sinkhole vulnerability
- produced a research paper to support findings that could be useful in determining level of risk based on geographical location

Fall 2016 ENSS 301: Geographic Info Sys & Science

Supervisor: Jason Evans, PhD

- Developed proficiency in data management through utilizing ArcGIS desktop 10.3
- Constructed final project applied ArcGIS desktop 10.3 to construct a final map and presentation that analyzed education and poverty in Volusia County, Florida.

Spring 2016 GESS 201: Intro to Maps and GIS

Supervisor: Tony Abbott, PhD

- Learned to read and comprehend paper maps: degrees, minutes, seconds (DMS) and universal transverse mercator (UTM) coordinate system
- Grasped the dynamic structures of the ArcGIS desktop 10.3 system: projections, distortions, toolbox, catalog, cartography, and drawing
- Analyzed, problem solved, and applied basic concepts of ArcGIS desktop 10.3

Professional Experience and Internships

Apr. 2016-Present Marketing Outreach Director, Stetson University, DeLand, FL

Center for Community Engagement (CCE) Supervisor: Amber Finnicum-Simmons

- Organize and communicate with local organizations to offer service opportunities and community outreach
- Created and hired a team to delegate content and videography tasks
- Manage CCE social media accounts and occasional takeovers of the official Stetson University Instagram story
- Presented various programs addressing DeLand history in a context related to ethnicity in the past and today, offered by the CCE to first year seminars

Aug. 2017-Present GIS Internship, *St. John's River-to-Sea Loop Alliance (SJR2C)*, DeLand, FL Supervisor: Tony Abbott, PhD & Maggie Ardito, SJR2C President

- Utilize ArcGIS desktop 10.3 and ArcGIS Pro to construct intuitive maps pertaining to the varied stages of completion to the 260-mile-long Florida multi-use trail
- Aided in the distribution and outreach of marketing materials for the SJR2C Summit in October of 2017

Oct. 2017 SJR2C Summit Presenter, St. John's River-to-Sea Loop Alliance (SJR2C), DeLand, FL

Supervisor: Tony Abbott, PhD & Maggie Ardito, SJR2C President

- Contributed to a panel discussion on the future progression and application of GIS for the SJR2C multi-use trail maps: paper, online, and recreational
- Informed all five county representatives and other organizations of proposed ideas and grant deadlines, while also answering questions related to specific community needs
- Established lines of communication between the SJR2C Alliance, the five counties, and other organizations

Jan. 2017-Dec. 2017 Teaching Assistant for GESS 201, Stetson University, DeLand, FL

Environmental Science and Studies Department

Supervisor: Tony Abbott, PhD

- Articulated the intricacies of the ArcGIS desktop 10.3 through problem solving, creativity, and adaptability
- Developed strategies to navigate various databases to find ArcGIS applicable datasets
- Held additional out of class lab times, twice per week, and individually upon request
- Served as a source of communication between the students and professor
- Created review sheets and study guides, as well as held review sessions outside of class time

- Recommended on campus resources that encouraged student success and development
- Provided feedback on course materials, activities, and exams/assignments

Specialized Training

2018 Walkability Assessment Volunteer, Volusia County Health Department & Stetson

University's Center for Community Engagement, used Survey 123 from Arc

Awards and Leadership

2017 Member Development Vice President, Alpha Xi Delta

2016 Panhellenic Delegate, Alpha Xi Delta

2017-2018 Facilitator & Tutor, Stetson Tutors, Stetson University's Center for Community

Engagement

References

Wendy Anderson, PhD
 Professor and Chair of Environmental Science and Studies, Stetson University 421 N. Woodland Blvd., DeLand, FL 32720
 wanders1@stetson.edu

• Jason Evans, PhD

Associate Professor of Environmental Science, Stetson University 421 N. Woodland Blvd., DeLand, FL 32720 jevans1@stetson.edu

Tony Abbott, PhD
 Professor of Environmental Science, Stetson University 421 N. Woodland Blvd., DeLand, FL 32720 tabbot@stetson.edu

Amber Finnicum-Simmons
 Community Impact Coordinator, Stetson University
 Center for Community Engagement

609 Bert Fish Dr., DeLand, FL 32720

afinnicu@stetson.edu