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## **Clifton Patrick Barrineau**

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### **Education**

Ph.D., Geography, Texas A&M University:

Dissertation: "System Controls on the South Texas Sand Sheet"

M.S., Geography, University of South Carolina:

Thesis: "Sediment Transport and Wind Flow Around Hummocks"

B.A. cum laude, Geography (minors, Spanish and Business) Auburn University:

Thesis: "Highway 61, revisited"

### **Licenses and Certifications**

Professional Geologist (SC #2773; NC #2761)

Open Water Diver (SSI 801402U5020814917259-US)

### **Research Interests**

Quaternary landscape evolution; sedimentary processes; boundary layer and sediment transport dynamics; the critical zone (specifically in coastal and aeolian environments); digital image processing and analysis; environmental and natural resource management; GIS application use and development

### **Publications – Peer-Reviewed**

- Barrineau, P., Kana, T., 2023. Beach nourishment and sediment management plan for Sagaponack and Bridgehampton at Southampton, New York. *Coastal Sediments*, vol. 10, New Orleans LA.
- Elko, N., Briggs, T., Marsooli, R., Barrineau, P., Hapke, C., McKenna, K., Simm, J., Beyeler, M., Smith, M., Troy, C., 2022. U.S. community perspectives on coastal flooding. *Shore and Beach* 90(3), 17-29.
- Barrineau, P., Janmaat, R., Kana, T., 2021. Empirical depths of closure along the US East Coast. *Coastal Engineering* 170 DOI 10.1016/j.coastaleng.2021.104009.
- Barrineau, P., Tchakerian, V., 2021. Geomorphology and dynamics of a coastal transgressive dune system, central California. *Physical Geography* 43 DOI 10.1080/02723646.2021.1944462.
- Harris, M., Ellis, J., Barrineau, P., 2020. Evaluating the geomorphic response from sand fences on dunes impacted by hurricanes. *Ocean and Coastal Management* 193 DOI 10.1016/j.ocecoaman.2020.105247.
- Barrineau, P., Kana, T., 2019. Unpacking Storm Damages on a Developed Shoreline: Relating Dune Erosion and Urban Runoff. *Shore and Beach* 87(3), 35-45.
- Barrineau, P., Janmaat, R., Kana, T., 2019. An empirical estimation of depth of closure along the US East Coast. *Coastal Sediments*, vol. 9, St. Petersburg Beach FL.
- Ewing, R., Phillips, J., Bowling, R., Weymer, B., Barrineau, P., Nittrouer, J., Everett, M., 2019. Low-angle eolian deposits formed by protodune migration, and insights into slipface development at White Sands Dune Field, New Mexico. *Aeolian Research* 36, 9-26.
- Barrineau, P., Dobreva, I., Bishop, M., Houser, C., Forman, S., 2018. Deconstructing aeolian landscapes. *CATENA* 174, 452-468.

- Barrineau, P., Dobрева, I., Bishop, M., Houser, C., 2016. Deconstructing a polygenetic landscape using LiDAR and multi-resolution analysis. *Geomorphology* 258, 51-57.
- Weymer, B., Everett, M., Houser, C., Wernette, P., Barrineau, P., 2016. Differentiating tidal and groundwater dynamics from barrier island framework geology. *Geophysics* 81(5), E347-E361.
- Houser, C., Bishop, M., Barrineau, P., 2015. "Characterizing instability of aeolian environments using analytical reasoning". *Earth Surface Processes and Landforms* 40(5), 696-705.
- Barrineau, C.P. and Ellis, J.T., 2013. "Sediment transport and wind flow around hummocks". *Aeolian Research* 8, pp. 19-27.

### **Publications – Book Chapters**

- Houser, C., Barrineau, P., Hammond, B., Saari, B., Rentschler, E., Trimble, S., Wernette, P., Young, S., 2017. Role of the foredune in controlling barrier island response to sea level rise. In: *Barrier Islands*, ed. Moore and Murray.
- Barrineau, P., Wernette, P., Weymer, B., Trimble, S., Hammond, B., Houser, C., 2015. Coastal Landscapes in the Critical Zone. In: *Principles and Dynamics of the Critical Zone*, Vol. 19, pp. 495-420.

### **Publications – Technical Reports**

- Coastal Science & Engineering, Inc., 2022. Arcadian Shores, SC, Beach Monitoring Report. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 54 pp + app.
- Coastal Science & Engineering, Inc., 2022. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 51 pp + app.
- Coastal Science & Engineering, Inc., 2022. Beach restoration and groin lengthening project survey report. Prepared for the Town of Edisto Beach, Edisto Island, SC. 77 pp + app.
- Coastal Science & Engineering, Inc., 2022. Pawleys Island annual monitoring report. Prepared for the Town of Pawleys Island, SC. 32 pp + app.
- Coastal Science & Engineering, Inc., 2022. Sea island beach nourishment project annual monitoring report. Prepared for Sea Island Company, Sea Island, GA. 34 pp.
- Coastal Science & Engineering, Inc., 2021. Arcadian Shores, SC, Beach Monitoring Report. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 54 pp + app.
- Coastal Science & Engineering, Inc., 2021. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 51 pp + app.
- Coastal Science & Engineering, Inc., 2021. Beach restoration and groin lengthening project survey report. Prepared for the Town of Edisto Beach, Edisto Island, SC. 77 pp + app.
- Coastal Science & Engineering, Inc., 2021. Isle of Palms restoration project monitoring report. Prepared for the City of Isle of Palms, Isle of Palms, SC. 77 pp + app.
- Coastal Science & Engineering, Inc., 2021. Pawleys Island annual monitoring report. Prepared for the Town of Pawleys Island, SC. 32 pp + app.
- Coastal Science & Engineering, Inc., 2021. Sea island beach nourishment project annual monitoring report. Prepared for Sea Island Company, Sea Island, GA. 34 pp.
- Coastal Science & Engineering, Inc., 2020. Arcadian Shores, SC, Beach Monitoring Report. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 55 pp + app.
- Coastal Science & Engineering, Inc., 2020. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 41 pp + app.

Coastal Science & Engineering, Inc., 2020. East end beach restoration project monitoring program survey report. Prepared for the Town of Kiawah Island, Kiawah Island, SC. 77 pp + app.

Coastal Science & Engineering, Inc., 2020. Beach restoration and groin lengthening project survey report. Prepared for the Town of Edisto Beach, Edisto Island, SC. 67 pp + app.

Coastal Science & Engineering, Inc., 2020. Pawleys Island annual monitoring report. Prepared for the Town of Pawleys Island, SC. 37 pp + app.

Coastal Science & Engineering, Inc., 2020. Sea island beach nourishment project annual monitoring report. Prepared for Sea Island Company, Sea Island, GA. 35 pp.

Coastal Science & Engineering, Inc., 2020. Seabrook Island annual monitoring report. Prepared for the Town of Seabrook Island, SC. 79 pp + app.

Coastal Science & Engineering, Inc., 2019. Arcadian Shores, SC, Beach Renourishment and Swash Realignment Final Report. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 37 pp + app.

Coastal Science & Engineering, Inc., 2019. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 45 pp + app.

Coastal Science & Engineering, Inc., 2019. East end beach restoration project monitoring program survey report. Prepared for the Town of Kiawah Island, Kiawah Island, SC. 69 pp + app.

Coastal Science & Engineering, Inc., 2019. Beach restoration and groin lengthening project survey report. Prepared for the Town of Edisto Beach, Edisto Island, SC. 70 pp + app.

Coastal Science & Engineering, Inc., 2018. Arcadian Shores, SC, Biological Assessment. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 79 pp.

Coastal Science & Engineering, Inc., 2018. Arcadian Shores, SC, Beach Renourishment and Swash Realignment Geotechnical Report. Prepared for SCDHEC-OCRM on behalf of Horry County Department of Engineering, Conway SC. 42 pp + app.

Coastal Science & Engineering, Inc., 2018. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 52 pp + app.

Coastal Science & Engineering, Inc., 2018. Debidue Beach post-*Irma* assessment. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 27 pp + app.

Coastal Science & Engineering, Inc., 2018. East end beach restoration project monitoring program survey report. Prepared for the Town of Kiawah Island, Kiawah Island, SC. 73 pp + app.

Coastal Science & Engineering, Inc., 2018. Beach restoration and groin lengthening project survey report. Prepared for the Town of Edisto Beach, Edisto Island, SC. 62 pp + app.

Coastal Science & Engineering, Inc., 2018. Sea Island, GA, Biological Assessment. Prepared for GA-DNR on behalf of Sea Island Company, Sea Island, GA. 95 pp.

Coastal Science & Engineering, Inc., 2018. Sea Island, GA, Beach Restoration Geotechnical Report. Prepared for GA-DNR on behalf of Sea Island Company, Sea Island, GA. 45 pp + app.

Coastal Science & Engineering, Inc., 2018. Seabrook Island annual monitoring report. Prepared for the Town of Seabrook Island, SC. 77 pp + app.

Coastal Science & Engineering, Inc., 2017. Debidue Beach annual beach & inshore survey report. Prepared for DeBordieu Colony Community Association, Georgetown, SC. 67 pp + app.

Coastal Science & Engineering, Inc., 2017. Pawleys Island annual monitoring report. Prepared for the Town of Pawleys Island, SC. 22 pp + app.

Coastal Science & Engineering, Inc., 2017. Debidue Beach Biological Assessment. Prepared for SCDHEC-OCRM on behalf of DeBordieu Colony Community Association, Georgetown, SC. 106 pp.

- Coastal Science & Engineering, Inc., 2017. Debidue Beach Restoration Project Geotechnical Report. Prepared for SCDHEC-OCRM on behalf of DeBordieu Colony Community Association, Georgetown, SC. 39 pp + app.
- Coastal Science & Engineering, Inc., 2017. Pawleys Island Biological Assessment. Prepared for SCDHEC-OCRM on behalf of the Town of Pawleys Island, SC. 88 pp.
- Coastal Science & Engineering, Inc., 2017. Pawleys Island Beach Renourishment Project Geotechnical Report. Prepared for SCDHEC-OCRM on behalf of the Town of Pawleys Island, SC. 24 pp + app.
- Coastal Science & Engineering, Inc., 2017. Nags Head Beach Renourishment Project Geotechnical Report. Prepared for NCDEQ-CAMA on behalf of the Town of Nags Head, NC. 64 pp + app.

## **Professional Experience**

Vice President (December 2022-present)

Coastal Science & Engineering, Columbia, SC

- Continued day-to-day duties as Coastal Scientist, with additional emphasis on business development and program management. Expanded responsibilities in developing new clients and professional partnerships, as well as strategic planning and budgeting for company-wide initiatives.

Coastal Scientist (February 2017-December 2022)

Coastal Science & Engineering, Columbia, SC

- Generate reports and permit documentation for coastal restoration projects. Project management of beach renourishment and other coastal environmental engineering / restoration efforts.

Adjunct Professor (January 2018-present)

Department of Geography, University of South Carolina

- Instructs upper-level coursework in Coastal Zone Management, focusing on both science and policy issues affecting the coast.

Adjunct Professor (January 2017-May 2017)

Department of Social and Behavioral Sciences, Midlands Technical College

- Developed a Physical Geography laboratory program to offer students lab science credits in pursuit of others majors. Participated in university-wide training and certification for online education and pedagogy.

Adjunct Professor (August 2014-May 2017)

Department of Geosciences, Eastern Kentucky University

- Developed coursework in Geography and Geology and mentored student-designed research in GIS and community-engaged landslide mitigation. Participated in departmental and course assessments and ran for office in Faculty Senate.

Laboratory Instructor (August 2013-May 2014)

Department of Geography, Texas A&M University

- Instruction for three sections of a physical geography laboratory course (GEOG 203) covering hands on surveying and cartography, climate and weather, hydrology, geomorphology, etc. and assist lecture instructor with grading and exam proctoring.

Research Assistant (May 2013-August 2013)

Department of Geography, Texas A&M University

- Collected and geocoded census data associated with medical records in ArcGIS across the State of Texas, analyzed findings using Python and R.

Laboratory Instructor (August 2012-May 2013)

Department of Geography, Texas A&M University

- Instruction for three sections of a physical geography laboratory course (GEOG 203) covering hands on surveying and cartography, climate and weather, hydrology, geomorphology, etc. and assist lecture instructor with grading and exam proctoring.

Research Assistant (May 2012-August 2012)

Department of Geography, Texas A&M University

- Led research on coastal-aeolian landscape evolution at the Pismo-Oceano Dunes, CA. Collected GPR surveys and grain size samples from across the dunes and determine relationships between grain size and bedform spacing.

Laboratory Instructor (January 2012-May 2012)

Department of Geography, University of South Carolina

- Instruction and hands on experimentation for three sections of a geomorphology course (GEOG 203) covering fluvial, colluvial, aeolian, coastal, glacial, etc. landscapes and assist lecture instructor with grading and exam proctoring.

Research Assistant (August 2011-December 2011)

Department of Geography, University of South Carolina

- Prepared for and completed field-based research on coastal wind-driven sediment transport in northern Brazil, analyzed findings using MATLAB.

Teaching Assistant (January 2011-May 2011)

Department of Geography, University of South Carolina

- Teaching assistant for a large introductory geography course (GEOG 103), delivered guest lectures and assisted instructor with grading and course management.

Research Assistant (August 2010-December 2010)

Department of Geography, University of South Carolina

- Collected historical climate data from the Atlantic Basin for augmenting hurricane records in the Southeastern United States, analyzed findings using SPSS.

Research Assistant (January 2009-May 2010)

Department of Geology and Geography, Auburn University

- Compiled data and analyzed satellite imagery to produce NDVI and LST visualizations for the State of Alabama using ERDAS Imagine and ArcGIS.

Athletics Tutor (January 2009-May 2010)

Athletics Department, Auburn University

- Tutored student athletes individually and in focus groups reviewing Physical Geography, Human Geography, Physical Geology, Historical Geology, Spanish I, Spanish II, Macroeconomics, Calculus I, and Calculus II.

## **Grants, Awards, and Honors**

Columbia Business Monthly (September 2021)

Best and Brightest Under 35

Who's Who in America (November 2020)

Marquis Who's Who in America

Norb Psuty Outstanding Presentation Award (April 2017)

Association of American Geographers Coastal and Marine Specialty Group

AAG Dissertation Research Grant (February 2016)

Association of American Geographers, Amount \$1000 USD

Coastal Geomorphology Graduate Scholarship (August 2015)

Texas A&M College of Geosciences, Amount \$2000 USD

Mr. and Mrs. Kenneth P. Pipes Endowed Scholarship (August 2014)

Texas A&M College of Geosciences, Amount \$2000 USD

College and IDP Top-Off Scholarship (August 2013)  
Texas A&M College of Geosciences  
Graduate Scholarship (August 2012)  
Texas A&M Department of Geography, Amount \$3000 USD  
Norb Psuty Outstanding Presentation Award (February 2012)  
Association of American Geographers Coastal and Marine Specialty Group  
Icenogle Award for Outstanding Senior (May 2010)  
Auburn University Department of Geology and Geography  
Drummond Honors Scholarship (April 2009)  
Auburn University Honors College, Amount \$2000 USD  
Undergraduate Research Assistantship (January 2009-May 2010)  
Auburn University  
National Merit Finalist Scholarship (August 2006-May 2010)  
Auburn University  
Eagle Scout, Bronze Palm (December 2005)  
Troop 100, Indian Waters Council SC

### **Conference Presentations**

Barrineau, P., 2022. "Dust, birds, farms, and 4-wheelers: a coastal management case study from California". Long Beach, CA: American Shore and Beach Preservation Association Annual Meeting, Fall 2022.

Barrineau, P., Kana, T., 2020. "What mechanisms cause coastal flow slides?". Columbia, SC: American Shore and Beach Preservation Association Annual Meeting, Fall 2020.

Barrineau, P., Kana, T., 2018. "Understanding shoreline movement around inlets." Galveston, TX: American Shore and Beach Preservation Association Annual Meeting, Fall 2018.

Barrineau, P., 2018. "Unpacking Storm Damages on a Developed Shoreline." New Orleans, LA: Association of American Geographers Annual Meeting, Spring 2018.

Barrineau, P., 2017. "Unpacking Storm Damages on a Developed Shoreline." Fort Lauderdale, FL: American Shore and Beach Preservation Association Annual Meeting, Fall 2017.

Barrineau, P., 2017. "A Holocene History of South Texas." Boston, MA: Association of American Geographers Annual Meeting, Spring 2017.

Barrineau, P., Dobрева, I., Bishop, M., Houser, C., 2015. "Deconstructing a Polygenetic Landscape". Chicago, IL: Association of American Geographers Annual Meeting, Spring 2015.

Barrineau, P., Dobрева, I., Bishop, M., Houser, C., 2014. "Multi-resolution analysis of LiDAR data for characterizing a stabilized aeolian landscape in South Texas". San Francisco, CA: American Geophysical Union Annual Meeting, Fall 2014.

Houser, C., Bishop, M., Barrineau, P., 2014. "A fuzzy cognitive model of aeolian instability across the South Texas Sandsheet". San Francisco, CA: American Geophysical Union Annual Meeting.

Ewing, R., Weymer, B., Barrineau, P., 2014. "Morphology and stratigraphic evolution of aeolian protodunes, White Sands Dune Field". American Geophysical Union Annual Meeting, Fall 2014 San Francisco CA.

Barrineau, P. 2014. "Characterizing the Evolution of the South Texas Sand Sheet: Climate Variability and Geologic Framework." Tampa, FL: Association of American Geographers Annual Meeting.

Barrineau, P. 2013. "Using GIS to Analyze Morphometry and Geologic History". College Station, TX: College of Geosciences Annual GIS Day Presentation.

Barrineau, P. 2013. "Holocene History of the South Texas Sand Sheet". College Station, TX: College

of Geosciences Annual Student Research Week.

- Barrineau, P. 2013. "Geomorphometry and Spatial Patterns of the South Texas Sand Sheet". Nacogdoches, TX: Southwestern Association of American Geographers Annual Meeting.
- Barrineau, P. 2013. "Geomorphometry and Spatial Patterns of the South Texas Sand Sheet". Denver, CO: Geological Society of America Annual Meeting.
- Barrineau, P. 2013. "Dune Processes at Pismo Beach, CA". Los Angeles, CA: Association of American Geographers Annual Meeting.
- Barrineau, P. 2013. "Dune Morphology at Pismo Beach, CA". Austin, TX: Geological Society of America South-Central Section Annual Meeting.
- Barrineau, P. 2012. "Dune Processes and Geomorphology at Pismo Beach, CA". San Francisco, CA: American Geophysical Union Annual Meeting.
- Barrineau, P. 2012. "Sediment Transport and Wind Flow Around Hummocks". New York City: Association of American Geographers Annual Meeting
- Barrineau, P. 2011. "Protecting Our Coast: towards a framework for assessing coastal sustainability". Seattle, WA: Association of American Geographers Annual Meeting
- Barrineau, P. 2009. "Protecting Our Coast: strategies of sustainable development for the southeast coast". Knoxville, TN: Southeastern Division of the Association of American Geographers Annual Meeting.

### **Service: Guest Lectures**

- Barrineau, P. "Addressing Coastal Issues in South Carolina". Guest Lecture, Downtown Columbia Rotary, October 2021.
- Barrineau, P. "System Controls on the South Texas Sand Sheet". Guest Lecture, Physical Geography, Hebrew University, Jerusalem, Israel, May 2016.
- Barrineau, P. "Enhancing Internet Searches for Academic Material". Guest Lecture, American Corner, Hashemite University, Zarqa, Jordan, December 2015.
- Barrineau, P. "Schumm's 10 Ways to Be Wrong". Guest Lecture, Orientation in Geography (GEO 200), University of Kentucky, Lexington, Kentucky, November 2014.
- Barrineau, P. "Aeolian Landforms and Processes." Guest Lecture, Landform Geography (GEOG 203), University of South Carolina, Columbia, South Carolina, April 2012.
- Barrineau, P. "Coastal zone management." Guest Lecture, Introductory Geography (GEOG 103), University of South Carolina, Columbia, South Carolina, March 2011.
- Barrineau, P. "Geographies of the Blues." Guest Lecture, Introductory Geography (GEOG 103), University of South Carolina, Columbia, South Carolina, February 2011.
- Barrineau, P. "Coastal Zone Management." Guest Lecture, Introductory Geography (GEOG 103), University of South Carolina, Columbia, South Carolina September 2010

### **Service: Journal Reviews**

- Member, Editorial Board, *Shore & Beach*
- Guest Reviewer, *Earth Surface Processes and Landforms*
- Guest Reviewer, *CATENA*
- Guest Reviewer, *Physical Geography*
- Guest Reviewer, *Journal of Marine Science and Engineering*
- Guest Reviewer, *Water*

### **Service: Selected Community Engagement**

- South Carolina Progressive Alliance, Columbia, South Carolina, January 2020 – present
- Participates in voter registration and public outreach programs designed to

promote equitable ballot access to all South Carolina citizens.

Community Supported Agriculture, Coward, South Carolina, 2017 – present

- Organized and managed a small-scale CSA project, producing market garden vegetables primarily tomatoes, peppers, gourds, beans/peas, herbs, melons, okra, eggplant, sunflowers, seasonal wildflowers.

Tenor, Dozan wa Awtar Chorus, Amman, Jordan, September 2015 – May 2016.

- Worked with Amman residents to present Christmas and Spring concerts for fundraising in support of local organizations

American Language Center language exchange, Amman, Jordan, Fall 2015.

- Volunteered as a speaker in Arabic-English language exchange sponsored by the Embassy of the United States' American Language Center

University of Kentucky Community Supported Agriculture Program, Lexington, KY, Fall 2014.

- Assisted field planting, maintenance, and harvesting of a variety of crops at UK campus farm near Waveland State Historic Park, Lexington KY

Philmont Scout Ranch trail building and conservation, near Cimarron, NM, Summer 2010 & 2012.

- Participated multiple trail building and conservation (eg fire suppression, riparian restoration, etc.) activities in and around Philmont Scout Ranch.

Auburn University Sustainability Alliance CSA, Auburn, AL, 2009-2010.

- Assisted field planting, maintenance, and harvesting of a variety of crops at one of the Auburn University campus farms, Auburn, AL

*Full service record will be happily provided on request*

### **Professional Organizations**

Associate Member, American Society of Civil Engineers

Member, American Shore and Beach Preservation Association

Member, European Geophysical Union

Member, Sigma Xi Scientific Research Society

Member, Geological Society of America

Member, American Geophysical Union

Member, Association of American Geographers

Member, Coastal Conservation Association

### **Instrumentation Experience**

Field Experience with: Total Station, RTK GPS (Trimble R-12, R-10, R-8), GSSI EM Profiler (EMP-100), Terrestrial Laser Scanner, Ground-penetrating RADAR, stadia rod surveys, Brown's transect species surveys

Research Experience with: ArcGIS (versions 9.3, 10.0, 10.1, ArcGIS Online, PRO), ENVI (versions 4.8, 5.0), ERDAS Imagine (versions 9.3-2015), QGIS (versions 2.8, 2.14), MATLAB, R, Global Mapper, GRASS GIS

*Full instrumentation experience will be happily provided in detail upon request*

### **Training and Certifications**

GIS: ESRI Location Analyst, ESRI Geo-App Development, ESRI Spatial Analyst

Programming: Code Academy Python Certificate, Code Academy SQL Certificate, Code Academy Web Essentials (HTML/CSS) Certificate, Code Academy JavaScript Certificate

### **Field Experience**



Coastal Engineering: beach nourishment project management, Nags Head, NC, Buxton, NC, Myrtle Beach, SC, Pawleys Island, SC, Isle of Palms, SC, Edisto Beach, SC, Sea Island, GA; groin construction and repairs, Edisto Beach, SC; living shoreline site assessments and recommendations, Litchfield Beach, SC; groin condition assessment surveys (water-borne), Buxton, NC; groin condition assessment surveys (land-based), Pawleys Island, SC

Geomorphology: floodplain hydrology and morphology, Eastover, SC; coastal morphodynamics and management, Padre Island, TX; aeolian processes and geomorphology, White Sands, NM; Quaternary landscape evolution, Kenedy Ranch, TX; barrier island evolution, Dauphin Island, AL; sedimentary processes and dune morphology, Jericoacoara, CE, Brazil; beach-dune processes, North Inlet NERR, SC; fluvial processes, Caesars Head, SC, Columbia, SC; colluvial processes, Berea, KY; aeolian processes and geomorphology, Ashdod-Ashkelon, Palestine-Israel.

Ecology: riparian and wetland communities, Austin, TX, College Station, TX, Georgetown, SC; forest fire restoration, Bastrop, TX and Cimarron, NM; tallgrass prairie remnants, Caldwell, TX; desert ecology, Alamogordo, NM; longleaf pine savannah, Eastern SC; old-growth mixed Eastern forest fire histories, Smoky Mountain Nat'l Park, TN/NC

Resource Management: riparian and wetland restoration, Austin, TX, College Station, TX, Georgetown, SC, Columbia, SC; tallgrass prairie restoration and conservation, Bellville, TX; longleaf pine restoration, Effingham/Coward, SC; coastal prairie management, Kenedy Ranch, TX; beach-dune management, Myrtle Beach, SC, Padre Island, TX

### **Coursework**

*Full course transcripts for all levels (B.A., M.S., Ph.D.) will be happily provided upon request*

### **Professional References**

Dr. Chris Houser  
Dean, Faculty of Science  
University of Windsor  
Doctoral Research Advisor (while at Texas A&M University)  
[chouser@uwaterloo.ca](mailto:chouser@uwaterloo.ca)  
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Dr. Tim Kana  
President and Founder  
Coastal Science & Engineering, Inc., Columbia SC  
Primary supervisor  
[tkana@coastalscience.com](mailto:tkana@coastalscience.com)  
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Dr. Vatche Tchakerian  
Professor of Geography  
Texas A&M University  
Doctoral Committee Member  
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Dr. Jean Ellis  
Professor of Geography  
University of South Carolina

Master's Advisor

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