

Diana C. Del Angel

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EDUCATION

- Ph.D. Coastal and Marine System Science** **2021**
Texas A&M University-Corpus Christi
Dissertation: "Social-ecological system approach for assessing impacts of sea-level rise and the benefits of natural and nature-based features."
Advisor: Dr. David Yoskowitz
- M.S. in Environmental Science** **2011**
Texas A&M University- Corpus Christi
Concentration: Coastal Geology
Thesis: "Dune-beach morphodynamic interaction along a semi-arid, wave-dominated barrier island: South Padre Island, Texas."
Advisor: Dr. James Gibeaut
- B.S. in Environmental Science** **2008**
University of Texas at Brownsville
Concentration: Geoscience

PROFESSIONAL EXPERIENCE

- Postdoctoral Research Associate** **2021-Present**
Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi Socio-Economic Laboratory
- NOAA Center for Coastal and Marine Ecosystems EPP/MSI Graduate Research Scholar and Graduate Research Assistant** **2016-2021**
Harte Research Institute for Gulf of Mexico Studies, Texas A&M University- Corpus Christi Socio-Economic Laboratory
Assist in research projects related to ecosystem services, economic impact analysis, and coastal mapping. Extended assistance to the institute, providing translation and workshop facilitation in international collaborations with Mexico and Cuba. Developing, coordinating, and participating in public outreach and education activities.
- NOAA EPP Intern** **Mar-May 2019**
NOAA Coastal Office for Coastal Management – Charleston, SC
Synthesized information on ways to evaluate the benefits of green infrastructure. Compared currently available models for coastal habitat change for the Northern Gulf of Mexico National Estuarine Research Reserves.

<p>Science and Policy Fellow Gulf Research Program, The National Academies of Sciences, Engineering, and Medicine Host Office: Florida Department of Environmental Protection, Florida Coastal Office</p> <p>Support in the state's Coastal Zone Management 309 Strategy, assist in grant writing and maintain external communication with agency partners. Developed a framework for the implementation of an ecosystem assessment program for state-managed coastal lands.</p>	<p>2015-2016</p>
<p>Coastal Geoscientist Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi Coastal and Marine Geospatial Laboratory</p> <p>Conduct research of coastal environments using geospatial analysis and mapping tools. Manage projects and people in the Coastal and Marine Geospatial Lab. Mentor interns and undergraduate and graduate students. Projects:</p> <ul style="list-style-type: none"> • 2014 – 2015 Synthesize the state's wetlands status and coastal hazards exposure for the Texas Coastal Management Program Section 309 Assessment and Strategies report (2016-2020 enhancement cycle). • 2014 - Barrier Island Vulnerability: Geospatial data integration & assessment. • 2013-2015 - Assessment of geomorphic impacts of beach maintenance practices on Mustang and North Padre Island, TX. Planning of Beach and Dune Forum. • 2013-2015 - Shoreline change analysis for Natural Resource Damage Assessment post-DWH oils spill. • 2012- 2015 - Synthesis and of coastal management needs and development of permitting tool for state-managed submerged lands in Texas. • 2011- 2012 - Post-Hurricane Ike beach and dune erosion and recovery study. 	<p>2012- 2015</p>
<p>Graduate Research Assistant Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi Coastal and Marine Geospatial Laboratory</p> <p>Coordinated fieldwork. Conduct quarterly topographic surveys of beach and dune environments and for post-hurricane impact assessments. Projects:</p> <ul style="list-style-type: none"> • Geohazard mapping on South Padre Island. • Hurricane Ike impact studies. • Shoreline and dune mapping on the Texas coast. 	<p>2008-2011</p>
<p>Geology Teaching Assistant, Texas A&M University- Corpus Christi</p> <p>Lead physical and historical geology labs.</p>	<p>2008-2009</p>
<p>Lab Assistant, Texas A&M Galveston - <i>Laboratory for Oceanographic and Environmental Research</i></p> <p>Processed and sampled sediment cores as part of the South Padre Island Offshore Sand study, including labeling, sediment analysis, and database input. Assisted in the collection of offshore sediment cores and water samples.</p>	<p>2008</p>
<p>Geology Teaching Assistant, the University of Texas at Brownsville 2008</p> <p>Organized and graded geology lab material.</p>	

**Lab/Field Assistant, the University of Texas at Brownsville
2007**

Assisted with the Bahia Grande Wetland Restoration Project. Maintained native coastal grasses and shrubs in a greenhouse. Transplanted native plants to restoration sites.

Research Assistant, University of Texas at Brownsville

2007

Mapped riparian vegetation along the coastal plains of South Texas. Collected and managed data in an ArcGIS database.

PRESENTATIONS

Del Angel, D.C.*, . L. Balthis, M.V. Bilskie, C.A. Buckel, R. Collini, D. DeLorme, S.C. Hagen and D. Yoskowitz *Communicating the Socio-Economic Impacts of Storm Surge Flood Plains under the Coastal Dynamics of Sea-Level Rise in the Northern Gulf of Mexico*, Gulf Coastal Solution Workshop/ Web/April 27-28, 2021. Available online: <https://www.oceanvisions.org/2021-gulf-coast-solutions-workshop>

Del Angel D.C.*, Yoskowitz, D., Bilskie M., and Hagen S., *Economic Impact Analysis of Storm Flooding under Sea Level Rise*. Apalachicola NERR Research Symposium. February 18-19, 2021. Virtual event. Recording available online at https://youtu.be/Y_vfMrEXqF8

Del Angel, D.C.*, D. Yoskowitz, M. Bilskie, S. Hagen, and K. Wowk. *Understanding the increased cost of storm surge flooding under sea level rise* (Poster). Coastal and Estuarine Research Federation Conference. November 3-7, 2019. Mobile, Alabama.

Del Angel, D.C.*, B. Bowes, S. Dohner, B. Kim, S. Marriott, J. Song, J. Goodall, L. Schaffner, S.M. Fiore, T. Hartley *Team Science Approach for Coastal and Marine Resilience*. Coastal and Estuarine Research Federation Conference. November 3-7, 2019. Mobile, Alabama.

Del Angel, D.C.*, D. Yoskowitz, S. Hagen, and M. Bilskie. *Socio-Economic Impact of Storm Surge under Projected Sea Level Rise: Spatial Assessment of Communities at Risk*. 9th biennial NOAA EPP/MSI Educational Science Forum. March 18-21, 2018. Washington D.C.

Del Angel, D.C.*, D. Yoskowitz, *Assessing Economic Impact of Storm Surge Under Projected Sea Level Rise Scenarios*. AGU Fall Meeting. December 11-15, 2017. New Orleans, LA.

Del Angel, D.C.*, D. Yoskowitz, *Assessing Socio-Economic Impacts of Sea-Level Rise Induced Wetland Change* (poster). SACNAS National Conference. October 18-21, 2017. Salt Lake City, UT.

Del Angel, D.C.*, J.C. Gibeaut, A. Lord, *Beach Maintenance Impacts to Beach and Dune Morphology and Vegetation on Mustang and North Padre Islands, Texas*. Texas Beach and Dune Forum. September 24-25, 2015. Corpus Christi, TX.

Del Angel, D.C.*, and J.C. Gibeaut, *Texas Coastal Wetlands: Synthesis and Analysis* (poster). Texas Bays and Estuaries Meeting. April 8-9, 2015. Port Aransas, TX.

Del Angel, D.C.*, J.C. Gibeaut, and B. Luper. *Texas Coastal and Marine Spatial Planning Initiative* (poster). Restore Americas Estuaries 7th National Summit on Coastal and Estuarine Restoration. November 1-6, 2014. Washington, D.C.

Del Angel, D.C.*, J.C. Gibeaut, M.J. Starek, and A. Reisinger. *Shoreline Change Analysis of Hurricane Ike Impact and Recovery on the Upper Texas Coast*. American Shore and Beach Preservation Association National Conference. October 22-25, 2013. South Padre Island, TX.

Del Angel, D.C.* and J.C. Gibeaut, *Geomorphic Controls of Dune Accretion on a Barrier Island: South Padre Island, TX*. American Shore and Beach Preservation Association National Conference. October 10-12, 2012. San Diego, CA.

Del Angel, D.C.* and J.C. Gibeaut, *Alongshore Variability of Dune Accretion on South Padre Island, Texas: Implications for Post Storm Dune Recovery*. Sixth Education and Science Forum, Florida A&M University. March 26, 2012. Tallahassee, FL.

Del Angel, D.C.* and J.C. Gibeaut, *Dune Morphological Evolution for Nourished and Non-Nourished Beaches, South Padre Island, TX*. 45th Annual Geological Society of America South-Central Meeting. March 28-29th, 2011. New Orleans, LA.

Del Angel, D.C.*, C.S. Roberts, A.S. Reisinger, N. Gutierrez, A. Hockaday and J.A. Benavidez. *Characterization of The Riparian Wetlands in the Lower Rio Grande Valley*. 111th Annual Meeting of the Texas Academy of Science. March 6-8, 2008. Corpus Christi, TX.

Del Angel, D.C.* and E.A. Heise, *Black Mangrove Transplantation for Shoreline Stabilization in the Bahia Grande Wetland Restoration Project, South Texas*. (poster). GSA Annual Meeting. October 28-31 2007. Denver, CO.

INVITED SPEAKER & WORKSHOP PRESENTATIONS

Del Angel, D. *Personality and Teams*. Socio-Economics Group Retreat. Welder Wildlife Refuge. December 8, 2017. Sinton, TX

Del Angel, D., and C. Lozada, *CV and Personal Statements* workshop for undergraduates, sponsored by the Texas A&M University – Corpus Christi SACNAS Chapter. November 8, 2017. Corpus Christi, TX.

Del Angel, D. C., *The Importance of Women Mentors and Role Models*. SACNAS National Conference: Women in STEM Reception. October 17, 2017. Salt Lake City, UT.

Del Angel D.C and L. Hutchison, *Designing Scientific Posters* workshop for undergraduates, sponsored by the Texas A&M University – Corpus Christi SACNAS Chapter. February 14, 2017. Corpus Christi, TX.

Del Angel, D.C., *Using Science-Based Models to Improve Coastal Management*. Women's Leadership Texas meeting. Harte Research Institute. September 12, 2016. Corpus Christi, TX.

Del Angel, D.C.*, J.C. Gibeaut, and E. Taylor. *Geohazard Map of South Padre Island, Texas*. Texas General Land Office Coastal Resiliency Forum – Region 4. December 9, 2014. Port Isabel, TX.

Del Angel, D. C., *Coastal Application of GIS*. GIS Day of the Coastal Bend. November 19, 2014. Corpus Christi, TX

Del Angel, D. C., *Beach Nourishment on the Texas Coast*. Aquarium at Rockport Harbor. July 18, 2013. Rockport, TX.

Del Angel, D. C., *Studying Coastal Change with GIS*. Foundations of Geographic information Systems –guest lecture. Texas A&M University – Corpus Christi. October 24, 2012. Corpus Christi, TX.

REPORTS

Yoskowitz, D., L.H. Williams, V.C. Ramenzoni, **D. Del Angel**, K. Coffey (2019). *Socio-Behavioral-Economic Observing System Indicators for Coastal Community Sustainability*. 46 pages. Harte Research Institute for Gulf of Mexico Studies. Texas A&M University-Corpus Christi. [Available online](#).

Del Angel, D.C., J.G. Gibeaut, A. Lord. (2015). *Beach Maintenance Impacts and Recommendations for Best Management Practices*. A Report to the General Land Office under GLO Contact No. 14-246-000-8341. CEPRA Project No. 1593. Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi.

Gibeaut, J.C., **D. Del Angel**, B. Luper, W. Nichols. (2015). Resource Management Codes: Data Standards Committee Procedures and Update Process. Report to the Texas General Land Officer under NOAA Grant No. NA12NOS4190264. Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus – Christi. 46 p.

Del Angel, D.C., J.G. Gibeaut, B.L Luper, E. Taylor. (2014). *Barrier-Island Vulnerability Data Integration and Assessment*. A report to the Landscape Conservation Cooperative. Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi. 42 p.

Gibeaut, J.C., **D. Del Angel**, B. Luper, W. Nichols, & F. Moretsohn. (2014) Coastal Texas Initial Needs Assessment: Texas Technical Advisory Committee Findings and Report. Corpus Christi, TX: Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus – Christi. General Land Office contract no. 12-493-000-6690.

SERVICE TO PROFESSION

2017-2019	Green Infrastructure Working Group member – Gulf of Mexico Alliance
2016-2017	Field Volunteer- Mission Aransas Research Reserve
2012-2015	Committee Member – City of Corpus Christi Watershore and Beach Advisory Committee
2013-2014	Committee Member - Student Outreach – American Shore and Beach Preservation Association

OUTREACH AND EDUCATION

2017-Present	English-Spanish Translator for the Third Coast Science Magazine, Corpus Christi, TX
2018	Organizer- Science Saturday Corpus Christi, Corpus Christi, TX (attendance ~500)
2017	Organizer- Harte of Gulf Film Competition, Corpus Christi, TX (attendance ~150)
2017 -2018	Wetlands at Work- Workshop at Oso Bay Wetland Preserve
2013;2017	National Ocean Science Bowl volunteer
2013;2017	Regional Science Fair volunteer
2014-2015	Earth Day /Bay Day volunteer
2009-2015	Texas Coastal Monitoring Program

SKILLS

- Over ten years of interdisciplinary knowledge and experience related to coastal processes, coastal hazards, management and policy, and decision support tools.
- Proficient in managing, producing, and analyzing geospatial data.
- Extensive experience in the manipulation of vector and raster data. Advanced knowledge of vector editing, queries, topology, map projections, metadata development, ArcGIS extensions, and related skills.
- Experience writing code using R statistical Software for analysis, modeling, and production of graphs.
- Experience using Adobe Photoshop, Illustrator, and Spark for developing figures, models, posters, and social media posts.
- Maintained social media profiles for multiple organizations and events.
- Field experience: Surveyed beach, dune, and wetland environments using Sokkia Total Station and Real-Time Kinematic systems for over five years. Experience in collecting water quality, sediment cores, sediment analysis, seine net surveys, wetland and mangrove surveys, including vegetation characterization, SET elevation studies, & species diversity.
- Project management skills, including budget development, writing of work statements, progress, and final reports.
- Experienced in planning, leading, and facilitating workshops and meetings.
- Experience using HAZUS for economic impacts of storm surge.
- Experience using MAXQDA for the analysis of qualitative data.
- Knowledge in the development and application of biological, physical, and socio-economic indicators.
- Professional training in Team Science and transdisciplinary knowledge integrations
- Professional training in Science Communication
- Knowledgeable in Ecosystem-Based Management and products, including Marine Spatial Planning tools, Ecosystem Assessments, Socio-Ecological and Resilience approaches to research and management, and the use of Natural and Nature-Based features in building resilience.
- Language skills: Proficient in English. Can speak and read Spanish fluently and write with basic competence.

AWARDS AND HONORS

- 2018 Selected participant of Harte Research Institute Student Workshop on International Marine and Coastal Management (SWIMM)
- 2018 Virginia Sea Grant Team Science and Cross-Disciplinary Problem-Solving Training
- 2016-Present Center for Coastal and Marine Ecosystems Ph.D. Fellowship
- 2016 AGEP Scholar
- 2015 Gulf Research Program, Science Policy Fellow
- 2012 USDA Graduate Fellow
- Dean's List for Summer 2003, Fall 2005, Fall 2006, Spring 2007, and Summer 2007
- College of Science, Mathematics and Technology Scholarship, May 2007

PROFESSIONAL AFFILIATIONS

2018-Present Coastal Bend Children in Nature
2017-present Association of State Wetland Managers
2016-present Society for the Advancement of Chicanos/Hispanics and Native American in Science, Texas A&M
Corpus Christi Chapter- Graduate President 2016-2018
2016-Present Society for Conservation GIS
2016-Present The Coastal Society
2010-2016 Toastmasters International
2011-2013 American Shore and Beach Preservation Association
2011-2012 American Geophysical Union
2008-2010 Sigma Xi Scientific Research Society
2007-2012 Geological Society of America

RELEVANT COURSEWORK

Coastal Geoenvironments	Statistical Methods in Research I	Environmental Sustainability Economics
Living with Coastal Hazards	Statistical Methods in Research II	Managerial Economics
Coastal Geology	Natural Systems Modeling	Conservation of Natural Resources
Coastal and Marine Systems	Mixed Effects Models for Scientist	Coastal Management and Ocean Law
Marine Ecosystem Dynamics	Introduction to Scientific Programming	Environmental Regulations.
Physical Oceanography	Spatial System Science	
Oceanography	Geographical Information Systems	
Climate Variability		
Hydrology and Water		