

Dr. Christopher A. Gabler
The University of Texas Rio Grande Valley
School of Earth, Environmental, and Marine Sciences
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Education

PhD, Rice University, 2012.
Major: Ecology and Evolutionary Biology

BS, Loyola University, 2004.
Major: Biological Sciences

Employment History

Academic - Administrative Assignments

Program Coordinator, B.S. in Sustainable Agriculture and Food Systems, The University of Texas Rio Grande Valley. (May 2018 - Present).

Program Coordinator, M.S. in Agricultural, Environmental, and Sustainability Sciences, The University of Texas Rio Grande Valley. (January 1, 2017 - Present).

Academic - Post-Secondary

Assistant Professor, The University of Texas Rio Grande Valley. (January 4, 2016 - Present).

Research Assistant Professor, University of Houston. (September 1, 2014 - December 31, 2015).

Postdoctoral Fellow, United States Geological Survey. (August 1, 2013 - August 31, 2014).

Postdoctoral Fellow, University of Houston. (October 1, 2012 - July 31, 2013).

Lecturer, Rice University. (January 1, 2012 - August 31, 2012).

Wray Todd Graduate Fellow, Rice University. (August 15, 2009 - December 31, 2011).

Lodieska Stockbridge Vaughn Graduate Fellow, Rice University. (August 15, 2008 - August 15, 2009).

Wray Todd Graduate Fellow, Rice University. (January 1, 2006 - August 15, 2008).

Awards and Honors

2st Place - HIGH Scholars Research Project in Environmental Science, UTRGV College of Sciences. (August 3, 2018).

Executive Vice President's Award for Outstanding Leadership in Development of New Degree Programs, UTRGV College of Sciences. (April 13, 2018).

Best Oral Presentation in Life Sciences, Engaged Scholars Symposium. (April 11, 2018).

1st Place (tied) - HIGH Scholars Research Project in Environmental Science, UTRGV College of Sciences. (August 4, 2017).

1st Place - HIGH Scholars Research Project in Environmental Science, UTRGV College of Sciences. (August 5, 2016).

2nd Place - HIGH Scholars Research Project in Environmental Science, UTRGV College of Sciences. (August 5, 2016).

Best Thesis Award, Rice University - Dept Ecology & Evolutionary Biology. (May 15, 2013).

Lodieska Stockbridge Vaughn Graduate Fellowship, Rice University. (August 15, 2008).

Honorable Mention - Best Student Presentation, Society of Wetland Scientists. (August 1, 2008).

Graduate Student Scholarship, Houston Livestock Show and Rodeo. (August 15, 2006).

Wray Todd Graduate Fellowship, Rice University. (August 15, 2006).

Honors in Biological Science, Loyola University New Orleans. (May 15, 2004).

Magna cum Laude, Loyola University New Orleans. (May 15, 2004).

Outstanding Environmental Studies Student, Loyola University New Orleans. (May 15, 2004).

University Honors Certificate, Loyola University New Orleans. (May 15, 2004).

Professional Memberships

Ecological Society of America. (April 15, 2007 - Present).

Society for Ecological Restoration. (2007 - Present).

Society of Wetland Scientists. (April 15, 2006 - Present).

Development Activities Attended

Workshop, "Faculty Portfolio Tool Training," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (December 6, 2016).

Seminar, "NFSP: Session V - Preparing for your 1st Year Review: Expectations & Dossier Prep," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (November 15, 2016).

Seminar, "General Faculty Development- Planning for a Productive Summer," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (April 28, 2016).

Seminar, "Career Mapping: Planning for Summer and Beyond," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (April 19, 2016).

Seminar, "NSF Career Grant Workshop II: Writing an NSF Career Proposal," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (April 8, 2016).

Seminar, "Jumpstart your Research Career with a NSF CAREER Grant!," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, 78520. (March 22, 2016).

Seminar, "General Faculty Development: What is Service Learning, and How Can I Use it in My Class?," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (March 3, 2016).

Seminar, "New Faculty Support Program Session VII: Navigating External Funding Sources," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (February 23, 2016).

Seminar, "New Faculty Support Program Session VI: Supporting Faculty and Student Success - Resources & Strategies," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (February 9, 2016).

Seminar, "General Faculty Development: Peer Observation of Teaching- Creating Collegial Connections," University of Texas Rio Grande Valley - Office of the Vice Provost for Faculty Affairs and Diversity, Brownsville, TX, United States. (January 28, 2016).

TEACHING

Teaching Experience

The University of Texas Rio Grande Valley

BIOL 1407, Gen Bio II, 1 course.
BIOL 3408, Plant Morphology, 6 courses.
BIOL 4399, Research Problems in Biology, 1 course.
BIOL 4410, Marine Botany, 4 courses.
BIOL 6185, Graduate Research, 1 course.
BIOL 7100, Thesis Proposal, 1 course.
BIOL 7300, Thesis I, 1 course.
EEMS 6100, Systems Science and Appl, 4 courses.
EEMS 6350, Novel Ecosystems, 1 course.
EEMS 6385, Graduate Research, 5 courses.
EEMS 6391, Supervised Teaching, 1 course.
EEMS 6485, Graduate Research, 1 course.
EEMS 7100, Continuing Thesis, 1 course.
EEMS 7300, Thesis I, 3 courses.
EEMS 7301, Thesis II, 2 courses.
ENVR 1402, Intro to Envr Sci II, 2 courses.
ENVR 4303, Envr Sci Res Proj, 3 courses.
ENVR 5370, Topic:R-based Stat. for Env.Sc, 1 course.
MARS 4410, Marine Botany, 2 courses.
MARS 5370, Topic:R-based Stat.for Marine, 1 course.
MARS 5410, Marine Plant Science, 2 courses.
UNIV 6100, Comp Exam Ext, 1 course.

Directed Student Learning

Master's Thesis Committee Chair, "Land selection for a south Texas conservation corridor,"
School of Earth, Environmental, and Marine Sciences, (January 1, 2018 - August 31, 2018)
James Stilley

Master's Thesis Committee Member, "Characterization of native plant communities of the Lower
Rio Grande Valley," Department of Biology, (January 1, 2018 - August 31, 2018)
Raziel Flores

Master's Thesis Committee Chair, "Growing food to purify water: testing the viability of using crop
species in treatment wetlands to purify water," School of Earth, Environmental, and Marine
Sciences, (September 1, 2017 - August 31, 2018)
Andrew Corder

Master's Thesis Committee Chair, "Impacts of variation in rainfall on coastal wetland plant
communities," School of Earth, Environmental, and Marine Sciences, (September 1, 2017 -
August 31, 2018)
Ivy Hinson

Master's Thesis Committee Chair, "Factors influencing bird diversity in urban ecosystems and
impacts of community gardens (working title)," School of Earth, Environmental, and Marine
Sciences, EEMS 7301, (September 1, 2017 - August 31, 2018)
Samuel Ortiz

Master's Thesis Committee Member, "Analysis of Bacteria Communities from South Texas PCB
Contaminated Reservoir," School of Earth, Environmental, and Marine Sciences,
(September 1, 2017 - August 31, 2018)
Alisha Janiga

Master's Thesis Committee Member, "Impact of nutrient enrichment on seagrass beds in the
Lower Laguna Madre," School of Earth, Environmental, and Marine Sciences, (September 1,
2017 - August 31, 2018)
John Garcia

Master's Thesis Committee Member, "Homeowner decision-making and its impacts on
development of our urban canopy," School of Earth, Environmental, and Marine Sciences,
(September 1, 2017 - August 31, 2018)
Ricardo Ramirez Garcia-Rojas

Master's Thesis Committee Member, "Source and spread of sediment from the Rio Grande
delta," School of Earth, Environmental, and Marine Sciences, (September 1, 2017 - August
31, 2018)
Samantha Moore

Master's Thesis Committee Member, "Dead things and where to find the: influence of
environmental factors and highway design on road mortality in south Texas," School of
Earth, Environmental, and Marine Sciences, (September 1, 2017 - August 31, 2018)
Trinity Livingston

Undergraduate Capstone/Senior Project, "Impacts of sea-level rise and nutrient enrichment on
foundation wetland plant species in the Lower Laguna Madre," Department of Biology, BIOL
4399, (September 1, 2017 - August 31, 2018)
Mariana Saenz

Undergraduate Capstone/Senior Project, "Viability and profitability of value-added oyster farming using agricultural wastes common in the Rio Grande Valley," School of Earth, Environmental, and Marine Sciences, ENVR 4303, (September 1, 2017 - August 31, 2018)
Martha Ruiz

Master's Thesis Committee Chair, "Impacts of variation in rainfall on coastal wetland plant communities," School of Earth, Environmental, and Marine Sciences, (September 1, 2017 - December 31, 2017)
Hannah Hand

Master's Thesis Committee Chair, "Impacts of variation in rainfall on coastal wetland plant communities," School of Earth, Environmental, and Marine Sciences, EEMS 6385, (May 16, 2017 - August 31, 2017)
Ivy Hinson

Master's Thesis Committee Member, "Homeowner decision-making and its impacts on development of our urban canopy," (April 2017 - August 31, 2017)
Ricardo Ramirez Garcia-Rojas

Master's Thesis Committee Member, "Analysis of Bacteria Communities from South Texas PCB Contaminated Reservoir," School of Earth, Environmental, and Marine Sciences, (February 2017 - August 31, 2017)
Alisha Janiga

Master's Thesis Committee Chair, "Impacts of variation in rainfall on coastal wetland plant communities," School of Earth, Environmental, and Marine Sciences, EEMS 6385, (January 1, 2017 - August 31, 2017)
Andre Munoz

Master's Thesis Committee Chair, "Impacts of dune walkovers on erosion and plant communities on South Padre Island," School of Earth, Environmental, and Marine Sciences, (January 1, 2017 - August 31, 2017)
Myrna Leal

Master's Thesis Committee Chair, "Factors influencing bird diversity in urban ecosystems and impacts of community gardens (working title)," School of Earth, Environmental, and Marine Sciences, EEMS 7300, (January 1, 2017 - August 31, 2017)
Samuel Ortiz

Undergraduate Capstone/Senior Project, "Utilization of aquaculture ponds and farmed wetlands by amphibians," School of Earth, Environmental, and Marine Sciences, ENVR 4303, (January 1, 2017 - August 31, 2017)
Brianda Montoya

Undergraduate Capstone/Senior Project, "Effects of wetland management practices on downstream soil properties," School of Earth, Environmental, and Marine Sciences, ENVR 4303, (January 1, 2017 - August 31, 2017)
Cecilia Espinosa

Undergraduate Capstone/Senior Project, "Which wetland crops are best at improving water quality?," School of Earth, Environmental, and Marine Sciences, ENVR 4303, (January 1, 2017 - August 31, 2017)
Cristian Martinez

High School Summer Research Project, "Tests of four inexpensive ways to reduce evaporation in a scalable aquaponics system," School of Earth, Environmental, and Marine Sciences, (June 1, 2017 - August 4, 2017)
Adriana Avila

High School Summer Research Project, "Impacts of climate change on recruitment of black mangrove, a foundation wetland plant species," School of Earth, Environmental, and Marine Sciences, (June 1, 2017 - August 4, 2017)
Valeria Garza

Master's Thesis Committee Chair, "Utilization of aquaculture ponds by endemic amphibians in the Lower Rio Grande Valley," Department of Biology, BIOL 7100, (September 1, 2016 - December 31, 2016)
Ernesto Herrera

Master's Thesis Committee Chair, "Mammal conservation ecology on South Padre Island," School of Earth, Environmental, and Marine Sciences, (September 1, 2016 - December 31, 2016)
Maureen Kinlan

Master's Thesis Committee Chair, "Sustainable agriculture in the Lower Rio Grande Valley (working title)," School of Earth, Environmental, and Marine Sciences, EEMS 6485, (September 1, 2016 - December 31, 2016)
Samuel Ortiz

Undergraduate Capstone/Senior Project, "Improving and evaluating the impacts of public outreach methods aimed at teaching boaters about the value of seagrass meadows," School of Earth, Environmental, and Marine Sciences, ENVR 4303, (September 1, 2016 - December 31, 2016)
Vincent Ochoa

High School Summer Research Project, "Can we predict risk of plant invasions based on environmental conditions in palm forests?," School of Earth, Environmental, and Marine Sciences, (June 1, 2016 - August 5, 2016)
Aubrey Valdez

High School Summer Research Project, "Developing tools to alleviate eutrophication: nitrogen fixation capacity of aquatic plants exposed to herbicide," School of Earth, Environmental, and Marine Sciences, (June 1, 2016 - August 5, 2016)
Jerek Garcia

High School Summer Research Project, "Mapping the distribution of invasive plants in the Sabal Palm Sanctuary in Brownsville," School of Earth, Environmental, and Marine Sciences, (June 1, 2016 - August 5, 2016)
Kathryn Luna

RESEARCH

Published Intellectual Contributions

Journal Article, Academic Journal

Osland, M. J., Gabler, C. A., Grace, J. B., Day, R. H., McCoy, M. L.**, McLeod, J. L.*, From, A. S., Enwright, N. M., Feher, L. C., Stagg, C. L., Hartley, S. B. (2018). Climate and plant controls on soil organic matter in coastal wetlands. *Global Change Biology*.
onlinelibrary.wiley.com/doi/abs/10.1111/gcb.14376 10.1111/gcb.14376

- Xie, L.-N., Guo, H.-Y., Liu, Z., Gabler, C. A., Chen, W.-Z., Gu, S., Ma, C.-C. (2017). Shrubs facilitate recruitment of *Caragana stenophylla* Pojark: microhabitat amelioration and protection against herbivory. *Annals of Forest Science*, 74(4). 10.1007/s13595-017-0668-4
- Pile, L. S., Wang, G. G., Stovall, J. P., Siemann, E., Wheeler, G. S., Gabler, C. A. (2017). Mechanisms of Chinese tallow (*Triadica sebifera*) invasion and their management implications – A review. *Forest Ecology and Management*, 404(C), 1-13.
- Feher, L. C., Osland, M. J., Griffith, K. T., Grace, J. B., Howard, R. J., Stagg, C. L., Enwright, N. M., Krauss, K. W., Gabler, C. A., Day, R. H., Rogers, K. (2017). Linear and nonlinear effects of temperature and precipitation on ecosystem properties in tidal saline wetlands. *Ecosphere*, 8(10), e01956. e01956.10.1002/ecs2.1956
- Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N. M., From, A. A., McCoy, M. L.*, McCleod, J. L.* (2017). Macroclimatic change expected to transform coastal wetland ecosystems this century. *Nature Climate Change*, 7(2), 142-147. 10.1038/nclimate3203
- Xie, L.-N., Chen, W.-Z., Gabler, C. A., Han, L., Guo, H.-Y., Chen, Q., Ma, C.-C., Gu, S. (2016). Effects of grazing intensity on seed production of *Caragana stenophylla* along a climatic aridity gradient in the Inner Mongolia Steppe, China. *Journal of Arid Land*, 8(6), 890-898. 10.1007/s40333-016-0050-7
- Osland, M. J., Enwright, N. M., Day, R. H., Gabler, C. A., Stagg, C. L., Grace, J. B. (2016). Beyond just sea-level rise: considering macroclimatic drivers within coastal wetland vulnerability assessments to climate change. *Global Change Biology*, 22(1), 1–11.
- Yang, Q., Wei, S., Shang, L., Carrillo, J., Gabler, C. A., Nijjer, S., Li, B., Siemann, E. (2015). Mycorrhizal associations of an invasive tree are enhanced by both genetic and environmental mechanisms. *Ecography*, 38(11), 1112–1118.
- Xie, L.-N., Guo, H.-Y., Gabler, C. A., Li, Q.-F., Ma, C.-C. (2015). Changes in spatial patterns of *Caragana stenophylla* along a climatic drought gradient on the Inner Mongolian Plateau. *PLoS ONE*, 10(3), e0121234.
- Yang, Q., Carrillo, J., Jin, H., Shang, L., Hovick, S. M., Nijjer, S., Gabler, C. A., Li, B., Siemann, E. (2013). Plant–soil biota interactions of an invasive species in its native and introduced ranges: Implications for invasion success. *Soil Biology and Biochemistry*, 65, 78–85.
- Gabler, C. A., Siemann, E. (2013). Timing of favorable conditions, competition and fertility interact to govern recruitment of invasive Chinese tallow tree in stressful environments. *PLoS ONE*, 8(8), e71446.
- Gabler, C. A., Siemann, E. (2013). Rapid ontogenetic niche expansions in invasive Chinese tallow tree permit establishment in unfavourable but variable environments and can be exploited to streamline restoration. *Journal of Applied Ecology*, 50(3), 748–756.
- Wundrow, E. J., Carrillo, J., Gabler, C. A., Horn, K. C., Siemann, E. (2012). Facilitation and competition among invasive plants: a field experiment with alligatorweed and water hyacinth. *PLoS ONE*, 7(10), e48444.
- Gabler, C. A., Siemann, E. (2012). Environmental variability and ontogenetic niche shifts in exotic plants may govern reinvasion pressure in restorations of invaded ecosystems. *Restoration Ecology*, 20(5), 545–550.

Siemann, E., Carrillo, J. A., Gabler, C. A., Zipp, R., Rogers, W. E. (2009). Experimental test of the impacts of feral hogs on forest dynamics and processes in the southeastern US. *Forest Ecology and Management*, 258(5), 546–553.

Whitney, K. D., Gabler, C. A. (2008). Rapid evolution in introduced species, 'invasive traits' and recipient communities: challenges for predicting invasive potential. *Diversity and Distributions*, 14(4), 569–580.

Horn, K. C., Johnson, S. D., Boles, K. M., Moore, A., Siemann, E., Gabler, C. A. (2008). Factors affecting hatching success of golden apple snail eggs: effects of water immersion and cannibalism. *Wetlands*, 28(2), 544–549.

Presentations Given

Pereira, E., Kang, J., Cheng, C.-L., Torres-Avila, M., Christoffersen, B., Gabler, C. A., Lowe, K., Racelis, A., (August 7, 2018). *Increasing Hispanic Workforce in Soil Science through Training, Research, and Education: A New Integrated Program for the Rio Grande Valley in South Texas*, Annual meeting of the ASA-CSSA-SSSA-CSSS Soil Science Society of America in San Diego, California.

Rodriguez, A.*, Trevino, A.*, De Leon, K.*, Grannum, C.*, Corder, A.**, Hinson, I.**, Stilley, J.**, Garza, B.*, Gabler, C. A., (August 3, 2018). *Food crops effectively purify water in treatment wetlands, but tolerate narrower ranges of flooding than graminoids*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.

De Leon, K.*, Grannum, C.*, Rodriguez, A.*, Trevino, A.*, Corder, A.**, Hinson, I.**, Stilley, J.**, Garza, B.*, Gabler, C. A., (August 3, 2018). *Sustainable plant-and fly-based feeds drive shellfish growth rates similar to commercial feeds and can be cheaper*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.

Stilley, J.**, Gabler, C. A., (June 19, 2018). *The Priority Index*, South Texas Landscape Priority Meeting USFWS in Laguna Atascosa NWR, TX.

Gabler, C. A., (May 4, 2018). *Gabler Lab: Plant Ecology & Sustainability*, Foundation Board of Trustees Meeting UTRGV in Harlingen, TX.

Saenz, M.*, Gabler, C. A., (April 11, 2018). *Impacts of sea-level rise on coastal wetland foundation plant species in the Lower Laguna Madre*, Engaged Scholars Symposium UTRGV in Brownsville, TX.

Hinson, I.**, Gabler, C. A., Rahman, A. F., Deyoe, H., (March 26, 2018). *Developing near-water spectral sensing techniques for seagrass mapping and carbon storage estimates*, NOAA 9th Biennial Education and Science Conference in Washington, DC.

Janiga, A.**, Racelis, A., Schuenzel, E., Gabler, C. A., Lowe, K., (February 28, 2018). *Characterization of Bacteria Communities from Texas Rio Grande Valley Reservoirs for Polychlorinated Biphenyl Metabolism Potential*, UTRGV Graduate Research Symposium in Brownsville.

Hinson, I.**, Gabler, C. A., Rahman, A. F., Deyoe, H., (February 28, 2018). *Developing near-water spectral sensing techniques for seagrass mapping and carbon storage estimates*, UTRGV Graduate Research Symposium in Brownsville.

Ortiz, S.**, Baez, J.*, Hinson, I.**, Del Monte, S.*, Brush, T., Gabler, C. A., (February 28, 2018). *How do urban habitat features and community gardens influence bird diversity?*, UTRGV Graduate Research Symposium in Brownsville.

- Osland, M. J., Gabler, C. A., Day, R. H., Grace, J. B., Stagg, C. L., From, A. S., Feher, L. C., Enwright, N., Hartley, S. B., McCoy, M. L.**, McCleod, J. L.* (November 7, 2017). *Coastal wetland responses to climate change: the influence of temperature and rainfall*, Coastal & Estuarine Research Federation Biennial Conference Coastal & Estuarine Research Federation in Providence, Rhode Island, USA.
- Gabler, C. A., (October 26, 2017). *Beyond sea-level rise: Impacts of climate change on coastal ecosystems in south Texas and beyond*, Eco-Rio Environmental Studies Symposium University of Texas Rio Grande Valley in Brownsville, Texas, USA.
- Gabler, C. A., (October 24, 2017). *Project CRAWFISH: a Climate-Resilient, Agroecological, Watershed-Food-Integrated System for Husbandry*, Eco-Rio Environmental Studies Symposium University of Texas Rio Grande Valley in Edinburg, Texas, USA.
- Garza, V.* , Gabler, C. A., Avila, A. A.* , Ortiz, S.** , Hinson, I.** , Munoz, A.** , Baez, J.* , Gonzales, A.* , Garza, B.* , (August 4, 2017). *Impacts of climate change on recruitment of black mangrove, a foundation wetland plant species*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.
- Avila, A. A.* , Gabler, C. A., Garza, V.* , Ortiz, S.** , Hinson, I.** , Munoz, A.** , Baez, J.* , Gonzales, A.* , Garza, B.* , (August 4, 2017). *Tests of four inexpensive ways to reduce evaporation in a scalable aquaponics system*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.
- Osland, M. J., Gabler, C. A., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N. M., From, A. S., (June 2017). *Climatic Controls on Coastal Wetland Ecosystems: The Carbon Implications of Climate Change-Induced Ecological Regime Shifts*, Society of Wetland Scientists Annual Meeting Society of Wetland Scientists in Puerto Rico, USA.
- Feher, L., Osland, M. J., Griffith, K. T., Grace, J. B., Howard, R. J., Stagg, C. L., Enwright, N. M., Krauss, K. W., Gabler, C. A., Day, R. H., Rogers, K., (June 2017). *Macroclimatic drivers of ecosystem structure and function in mangroves, salt marshes, and salt flats*, Society of Wetland Scientists Annual Meeting Society of Wetland Scientists in Puerto Rico, USA.
- Gabler, C. A., (May 26, 2017). *Beyond sea-level rise: impacts of climate change of coastal ecosystems in south Texas*, 19th Annual Lower Rio Grande Valley Water Management & Planning Conference Lower Rio Grande Valley Stormwater Task Force in South Padre Island, Texas, USA.
- Gabler, C. A., (May 24, 2017). *Project CRAWFISH: a water-smart, integrated vegetable garden and aquaculture system maintained with harvested rainwater and HVAC condensate*, 19th Annual Lower Rio Grande Valley Water Management & Planning Conference Lower Rio Grande Valley Stormwater Task Force in South Padre Island, Texas, USA.
- Gabler, C. A., (May 19, 2017). *Developing and launching new sustainability-focused degree programs: opportunities, challenges, and strategies*, International Center for Sustainability Across Curriculum Conference UTRGV in McAllen, Texas.
- Janiga, A.** , Racelis, A., Schuenzel, E., Gabler, C. A., Lowe, K., (March 31, 2017). *Characterization of Bacteria Communities from Texas Rio Grande Valley Reservoirs for Polychlorinated Biphenyl Metabolism Potential*, UTRGV College of Science Symposium in Edinburg.
- Gabler, C. A., (March 31, 2017). *Creation of the new Brownsville Research and Community Garden – AKA Project CRAWFISH: a Climate-Resilient, Agroecological Watershed-Food*

Integration System for Husbandry, UTRGV College of Science Symposium UTRGV College of Sciences in Edinburg.

Gabler, C. A., (February 3, 2017). *Impacts of climate change on coastal ecosystems in south Texas and beyond*, 71st Annual Meeting of the Subtropical Agriculture and Environments Society Subtropical Agriculture and Environments Society.

Faber-Langendoen, D., Stagg, C. L., Allen, S., Goodin, K., Brenner, J., Gabler, C. A., (August 2016). *Monitoring changes to the resilience of Gulf Coast salt marshes: will collapse and recovery lead to both natural and novel ecosystem types?*, Ecological Society of America Annual Meeting Ecological Society of America in Fort Lauderdale, FL, USA.

Valdez, A. *, Gabler, C. A., Ruiz, M. *, Luna, K. *, Munoz, A. *, Gonzalez, E. *, Baez, J. *, Guevara, D. *, (August 5, 2016). *Can we predict risk of plant invasions based on environmental conditions in palm forests?*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.

Garcia, J. *, Gabler, C. A., Baez, J. *, Ruiz, M. *, (August 5, 2016). *Developing tools to alleviate eutrophication: nitrogen fixation capacity of aquatic plants exposed to herbicide*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.

Luna, K. *, Gabler, C. A., Ruiz, M. *, Munoz, A. *, Gonzalez, E. *, Valdez, A. *, Baez, J. *, Guevara, D. *, (August 5, 2016). *Mapping the distribution of invasive plants in the Sabal Palm Sanctuary in Brownsville, Texas*, UTRGV High Scholars Symposium UTRGV College of Sciences in Edinburg, Texas, USA.

Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N., From, A. S., McCoy, M. L. **, McCleod, J. L. *, (April 14, 2016). *Macroclimatic change expected to transform coastal wetland ecosystems this century*, Texas Bays and Estuaries Meeting University of Texas Marine Science Institute in Port Aransas, Texas, USA.

Gabler, C. A., (October 2015). *Climates change, environments fluctuate, and niches shift: finding order and opportunity in ecological variability*, Invited Academic Seminar Sam Houston State University, Department of Biological Sciences in Huntsville, TX, USA.

Gabler, C. A., (October 2015). *Climates change, environments fluctuate, and niches shift: finding order and opportunity in ecological variability*, Invited Academic Seminar The University of Texas Rio Grande Valley, School of Multidisciplinary Sciences in Brownsville, TX, USA.

Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N., From, A. S., McCoy, M. L. **, McCleod, J. L. *, (April 2015). *Macroclimatic controls on tidal wetland ecosystems: Variation in plant community structure across climatic gradients in northern Gulf of Mexico estuaries*, Texas Bays and Estuaries Meeting University of Texas Marine Science Institute in Port Aransas, Texas, USA.

Gabler, C. A., (March 2015). *Climates change, environments fluctuate, and niches shift: finding order and opportunity in ecological variability*, Invited Academic Seminar Texas A&M Corpus Christi, Department of Life Sciences in Corpus Christi, TX, USA.

Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N., From, A. S., (September 2014). *Evaluating the ecological implications of climate change along macroclimatic gradients in coastal wetland ecosystems*, Aransas Research Symposium U.S. Fish and Wildlife Service in Port Aransas, Texas, USA.

Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N., From, A. S., (August 2014). *Macroclimatic controls on tidal wetland ecosystems: Variation in*

- foundation plant community zonation across abiotic gradients in three northern Gulf of Mexico estuaries*, Annual Meeting of the Ecological Society of America Ecological Society of America in Sacramento, CA, USA.
- Gabler, C. A., Siemann, E., (July 2014). *Moisture regime governs what drives reinvasion during restoration; evidence of cryptic opportunities for easy restoration*, Annual Meeting of the Society for Ecological Restoration Society for Ecological Restoration in New Orleans, LA, USA.
- Gabler, C. A., (May 2014). *Climates change, environments fluctuate, and niches shift: finding order and opportunity in ecological variability*, Invited Academic Seminar Southern Illinois University, Department of Plant Biology in Carbondale, IL, USA.
- Gabler, C. A., Osland, M. J., Grace, J. B., Stagg, C. L., Day, R. H., Hartley, S. B., Enwright, N., From, A. S., (April 2014). *Macroclimatic controls on tidal wetland ecosystems: Variation in foundation plant community zonation across abiotic gradients in three northern Gulf of Mexico estuaries*, Texas Bays and Estuaries Meeting University of Texas Marine Science Institute in Port Aransas, Texas, USA.
- Gabler, C. A., (October 2013). *Restoration of prairies and wetlands invaded by Chinese tallow tree: the importance of climate, ontogeny and timing*, Invited Academic Seminar Loyola University New Orleans, Department of Biological Sciences in New Orleans, LA, USA.
- Gabler, C. A., (August 2013). *Restoration of prairies and wetlands invaded by Chinese tallow tree: the importance of climate, ontogeny and timing*, Invited Academic Seminar U.S. Geological Survey, National Wetlands Research Center in Lafayette, LA, USA.
- Gabler, C. A., (October 2012). *Advances in restoring prairies invaded by Chinese tallow tree*, Invited Professional Seminar Native Prairie Association of Texas in Houston, TX, USA.
- Gabler, C. A., Siemann, E., (August 2012). *How ontogenetic niche shifts in the moisture tolerances of an exotic tree influence its invasion dynamics*, Annual Meeting of the Ecological Society of America Ecological Society of America in Portland, OR, USA.
- Gabler, C. A., Siemann, E., (April 2012). *Predicting reinvasion pressure in restorations of ecosystems invaded by exotic plants*, University of Houston and Rice University Ecology and Evolutionary Biology Symposium Rice University and University of Houston in Houston, TX, USA.
- Gabler, C. A., Siemann, E., (October 2011). *Predicting reinvasion pressure in restorations of ecosystems invaded by exotic plants*, Annual Meeting of Society of the Wetland Scientists South Central Chapter Society of Wetland Scientists South Central Chapter in Lafayette, LA, USA.
- Siemann, E., Carillo, J.** , Gabler, C. A.** , Ding, J., Huang, W.** , Wang, Y.** , Zou, J., Ling, Z.** , Li, B., Yang, Q.** , Yang, Z.** , Shen, H., Fu, S., (August 2011). *Aboveground and belowground enemies and the invasion success of plants: Experimental tests in the US and China*, Annual Meeting of the Ecological Society of America Ecological Society of America in Austin, TX, USA.
- Gabler, C. A., Siemann, E., (August 2011). *Predicting variable reinvasion pressure in restorations of exotic plant-invaded ecosystems: field testing a new model emphasizing propagule pressure and abiotic variation*, Annual Meeting of the Ecological Society of America Ecological Society of America in Austin, TX, USA.

- Gabler, C. A., Siemann, E., (August 2011). *Predicting variable reinvasion pressure in restorations of exotic plant-invaded ecosystems: field testing a new model emphasizing propagule pressure and abiotic variation*, Annual Meeting of the Society for Ecological Restoration Society for Ecological Restoration in Merida, Yucatan, Mexico.
- Gabler, C. A., Siemann, E., (June 2010). *Factors affecting recruitment of invasive Chinese tallow tree in restored wetlands: Evidence of ontogenetic niche shifts and the effects of water regime, competition and nutrient availability*, Annual Meeting of Society of the Wetland Scientists Society of Wetland Scientists in Madison, WI, USA.
- Gabler, C. A., Siemann, E., (August 2009). *Impacts of management methods and native and exotic propagule availability on restoration outcomes in a formerly invaded freshwater wetland after three years*, Annual Meeting of the Ecological Society of America Ecological Society of America in Albuquerque, NM, USA.
- Gabler, C. A., Siemann, E., (April 2009). *Impacts of management methods and native and exotic propagule availability on restoration outcomes in a formerly invaded freshwater wetland after three years*, University of Houston and Rice University Ecology and Evolutionary Biology Symposium Rice University and University of Houston in Houston, TX, USA.
- Gabler, C. A., (September 2008). *Ecological restoration of a freshwater wetland invaded by Chinese tallow tree*, Invited Academic Seminar Loyola University New Orleans, Department of Biological Sciences in New Orleans, LA, USA.
- Gabler, C. A., Siemann, E., (June 2008). *Impacts of management methods and propagule availability on restoration outcomes in a formerly invaded freshwater wetland*, Annual Meeting of Society of the Wetland Scientists Society of Wetland Scientists in Washington, DC, USA.
- Gabler, C. A., (March 2008). *Ecological restoration of invaded ecosystems*, Invited Academic Seminar Chinese Academy of Sciences, Wuhan Botanical Garden, Invasion Biology and Biological Control Lab in Wuhan, Hubei, China.
- Gabler, C. A., (March 2008). *Ecological restoration of invaded ecosystems*, Invited Academic Seminar Chinese Academy of Sciences, Nanjing Agricultural University, College of Resources and Environmental Sciences in Nanjing, Jiangsu, China.
- Gabler, C. A., (March 2008). *Ecological restoration of invaded ecosystems*, Invited Academic Seminar Chinese Academy of Sciences, South China Botanical Garden, Institute of Ecology in Guangzhou, Guangdong, China.
- Gabler, C. A., Siemann, E., (August 2007). *Impacts of management methods and invasive plants on biodiversity, ecosystem function, and successional trajectories in a Texas freshwater marsh restoration after one year*, Annual Meeting of the Society for Ecological Restoration, Texas Chapter Society for Ecological Restoration, Texas Chapter in Lubbock, TX, USA.
- Gabler, C. A., White, D., (June 2005). *The 25-year growth of a Louisiana wetland and its relation to the flow volume of the Mississippi River: the Brants Pass splay area*, Annual Meeting of Society of the Wetland Scientists Society of Wetland Scientists in Charleston, SC, USA.

Media Contributions

Internet

UTRGV Press Release. (May 5, 2017).

UTRGV Press Release. (January 25, 2017).

Newspaper

San Benito News. (May 10, 2017).

La Feria News. (May 10, 2017).

The Monitor. (May 5, 2017).

Brownsville Herald. (May 4, 2017).

Brownsville Herald. (January 30, 2017).

TV

KVEO Channel 8 (NBC). (December 5, 2016).

KGBT Channel 4 (CBS). (July 13, 2016).

Contracts, Grants and Sponsored Research

Funded Contract

Hicks, D. (PI), Gabler, C. A. (Co-PI), Berg, K. (Co-PI), "Commercial Launch Site: Active Construction Species Monitoring Plan," Sponsored by SpaceX, Corporate, \$61,493.00. (September 2017 - September 2018).

Hicks, D. (PI), Gabler, C. A. (Co-PI), Berg, K. (Co-PI), "Commercial Launch Site: Active Construction Species Monitoring Plan," Sponsored by SpaceX, Corporate, \$60,297.00. (August 15, 2016 - August 15, 2017).

Funded Grant

Pereira, E. (PI), Kang, J. (Co-PI), Cheng, C.-L. (Co-PI), Torres-Avila, M. (Senior Personnel), Christoffersen, B. (Senior Personnel), Gabler, C. A. (Senior Personnel), Lowe, K. (Senior Personnel), Racelis, A. (Senior Personnel), "Training, Research, and Education in Soil Science (TRESS)," Sponsored by USDA/NIFA Hispanic-Serving Institutions (HSI) Education Grants Program, Federal, \$274,988.00. (September 1, 2018 - August 31, 2022).

Racelis, A., Gabler, C. A., Mao, Y., Grewal, P., Bennack, G. (Co-PI), "An Integrated Approach to Graduate Research, Education, and Engagement," Sponsored by USDA-NIFA-National Needs Fellows Program, Federal, \$242,000.00. (July 15, 2017 - June 14, 2022).

Gabler, C. A. (PI), Pennings, S. C. (Co-PI), Osland, M. J. (Co-PI), Smee, D. L. (Co-PI), "Testing macroclimate models of coastal wetland plant communities," Sponsored by NOAA, Texas Sea Grant Program, State, \$199,896.00. (February 1, 2016 - January 31, 2019).

Saenz, M. (PI), Gabler, C. A. (Co-PI), "Impacts of sea-level rise on coastal wetland foundation plant species in the Lower Laguna Madre," Sponsored by Office of Engaged Scholarship & Learning, The University of Texas Rio Grande Valley, \$1,846.76. (October 2017 - October 2018).

Gabler, C. A., "Project CRAWFISH: a Climate-Resilient, Agroecological Watershed-Food Integration System for Husbandry in the Lower Rio Grande Valley," Sponsored by UTRGV

College of Sciences, Seed Grant Program, The University of Texas Rio Grande Valley, \$24,781.00. (June 8, 2016 - June 8, 2017).

SERVICE

Department Service

Committee Member, SEEMS Curriculum, Program Evaluation, and Assessment Committee. (September 1, 2017 - August 31, 2018).

Committee Member, SEEMS Graduate Admissions Committee. (September 1, 2017 - August 31, 2018).

Committee Member, Tenure and Promotion Guidelines and Policy Committee. (September 1, 2017 - August 31, 2018).

Webmaster, Webmaster for SEEMS. (September 1, 2017 - August 31, 2018).

Committee Member, Faculty Search in Marine Science. (November 2017 - April 2018).

Committee Member, Faculty Search in Socio-Ecological Systems. (November 2017 - April 2018).

Committee Member, SEEMS Curriculum, Program Evaluation, and Assessment Committee. (November 2016 - August 31, 2017).

Webmaster, Webmaster for SEEMS. (September 1, 2016 - August 31, 2017).

Committee Member, Tenure and Promotion Guidelines and Policy Committee. (September 1, 2016 - April 2017).

Committee Member, Faculty Search in Soil Health and Ecology. (November 2016 - March 2017).

Committee Member, Faculty Search in Valuation of Ecosystem Services. (October 2016 - March 2017).

Committee Chair, M.S. Program Committee for Agricultural, Environmental, and Sustainability Sciences. (September 1, 2016 - December 2016).

Webmaster, Webmaster for SEEMS. (April 2016 - August 31, 2016).

Committee Chair, M.S. Program Committee for Agricultural, Environmental, and Sustainability Sciences. (March 2016 - August 31, 2016).

Committee Member, Tenure and Promotion Guidelines and Policy Committee. (March 2016 - August 31, 2016).

College Service

Committee Member, College of Sciences New Dean Search Committee. (April 19, 2018 - Present).

Committee Chair, Develop new B.S. in Sustainable Agriculture and Food Systems. (September 1, 2017 - May 2018).

Committee Chair, Develop new B.S. in Sustainable Agriculture and Food Systems. (September 1, 2016 - August 31, 2017).

Committee Chair, Develop new B.S. in Sustainable Agriculture and Food Systems. (June 2016 - August 31, 2016).

University Service

Committee Member, ICSAC Steering Committee. (February 2018 - Present).

Committee Member, Graduate Program Coordinator Work Group. (October 2017 - May 2018).

Task Force Chair, Construction of new Brownsville Research and Community Garden (Project CRAWFISH). (October 1, 2016 - May 15, 2017).

Professional Service

Ad-Hoc Committee

Committee Member, Harris County Flood Control District, Houston, Texas. (September 1, 2015 - April 30, 2016).

Review Session

Reviewer, Grant Proposal, Texas Sea Grant, College Station, TX. (April 30, 2018).

Reviewer, Journal Article, Estuaries and Coasts. (March 15, 2017).

Reviewer, Journal Article, Oikos. (December 5, 2016).

Reviewer, Journal Article, Applied Vegetation Science. (October 19, 2016).

Reviewer, Journal Article, Restoration Ecology. (April 21, 2016).

Reviewer, Journal Article, Ecological Engineering. (March 16, 2016).

Reviewer, Grant Proposal, Texas Academy of Science, Brownsville, TX. (February 22, 2016 - February 26, 2016).

Reviewer, Ad Hoc Reviewer, Rio Grande Valley Regional Science and Engineering Fair, Brownsville, TX. (February 13, 2016).

Taskforce

Task Force Member, TX Department of Transportation and UT Marine Science Institute, Port Aransas, Texas. (October 25, 2016 - October 27, 2016).

Task Force Member, U.S. Geological Survey & NatureServe, Lafayette, Louisiana. (February 1, 2016 - April 6, 2016).

Task Force Member, Mission-Aransas National Estuarine Research Reserve, Port Aransas, Texas. (September 18, 2015 - September 28, 2015).

Public Service

Program Organizer, Brownsville Research and Community Garden, Brownsville, Texas. (September 1, 2017 - August 31, 2018).

Workshop Organizer, Earth Fest Texas, Brownsville, Texas. (March 2017).

Guest Speaker, Texas Master Naturalists - Galveston Bay Area Chapter, La Marque, Texas. (June 2, 2016).

Guest Speaker, Christ the King Lutheran Church, Online. (April 13, 2016).

* indicates undergraduate student

** indicates graduate student