

J. DAVID FELIX

Assistant Professor of Environmental Chemistry
Department of Physical and Environmental Sciences
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Education

Ph.D., Geology and Planetary Science, University of Pittsburgh, 2012

M.S., Chemistry, University of North Carolina Wilmington, 2008

B.S., Chemistry, Indiana University of Pennsylvania, 2004

Employment Experience

2015 – Present, *Assistant Professor of Environmental Chemistry*, Department of Physical and Environmental Sciences, Texas A&M University - Corpus Christi

2013 – 2015, *Postdoctoral Research Associate*, Department Chemistry and Biochemistry, University of North Carolina Wilmington

2008 – 2012, *Graduate Student Researcher*, Department of Geology and Planetary Science, University of Pittsburgh

2006 – 2008, *Graduate Student Researcher*, Department of Chemistry and Biochemistry, University of North Carolina Wilmington

2005, *Organic Extraction Chemist*, Analytical Laboratory Service Inc., Middletown, Pa

Teaching experience

2015 – present, *Assistant Professor*, Texas A&M University - Corpus Christi
General Chemistry
Professional Skills for Environmental Scientists
Stable Isotope Biogeochemistry
Coastal and Marine System Science Graduate Seminar

2013 – 2015, *Lecturer*, General College Chemistry, University of North Carolina Wilmington

2010, *Teaching Assistant*, Groundwater Hydrology, University of Pittsburgh

2007 – 2008, *Teaching Assistant*, Organic Chemistry, University of North Carolina Wilmington

2006 – 2007, *Teaching Assistant*, General Chemistry, University of North Carolina Wilmington

Publications (*student advisee)

In review, Willey, J., **Felix, J.D.**, Shimizu, M., Cala, J., Summerlin, S., Avery, G., Kieber, R., Mead, R. Impact of biofuel ethanol on ethanol cycling in the troposphere. *Environmental Science & Technology*

In review, Shimizu, M., Summerlin, S. L., **Felix, J. D.**, Halls, J., Avery, G.B, Kieber, R., Mead, R. N., Lane, C.S., Willey, J.D. Biofuel contribution of ethanol in rainwater. *Atmospheric Environment*.

2019, *Berner, A., **Felix, J.D.** Investigating ammonia emission sources in a coastal urban air shed using stable isotope techniques. *Science of the total Environment*.
<https://doi.org/10.1016/j.scitotenv.2019.134952>

2019, **Felix, J.D.**, Roebuck, A., Mead, R., Willey, J.D., Avery, G.B., Kieber, J., Methanol and ethanol concentrations in a Greenland ice core: Implications for atmospheric oxidation chemistry. *Atmospheric Environment*, 217, p.116948.

2019, *Díaz-Álvarez, E.A., **Felix J.D.**, De la Barrera, E. Elemental and isotopic assessment for Colombian orchids from a montane cloud forest: a baseline for global environmental change. *Acta Physiologiae Plantarum* 41 (6), 99

2019, Huang, S., Elliott, E. M., **Felix, J.D.**, Pan, Y., Liu, D., Li, S., Li, Z., Zhu, F., Fu, P., Yunting Fang, Y., Seasonal pattern of ammonium ¹⁵N natural abundance in precipitation at a rural forested site and implications for NH₃ source partitioning. *Environmental pollution* 247, 541-549

2019, Willey, J.D., Avery, G.B., Kieber, R.J., Mead, R.M., **Felix, J.D.**, Shimizu, M., Rapidly increasing ethanol concentrations in rainwater and air, *npj Climate and Atmospheric Science*. 2(1), p.3.

2018, **Felix, J. D.**, *Thomas, R., Casas, M., Shimizu, M., Avery, G. B., Kieber, R. J., Mead, R.N., Lane, C., Willey, J., Guy, A., Campos, M. Compound-specific carbon isotopic composition of ethanol in Brazil and US vehicle emissions and wet deposition. *Environmental Science & Technology*. 53 (3), 1698-1705

2018, Mullaugh, K.M., Shimizu, M.S., Willey, J.D., **Felix, J.D.**, Kieber, R.J., Avery, G.B., Mead, R.N., Andreacchi, C. and Payne, A., Variability of ethanol concentration in rainwater driven by origin versus season in coastal and inland North Carolina, USA. *Chemosphere*. Dec 21. 195:793-799. doi: 10.1016/j.chemosphere.2017.12.125.

2017, Mead, R., Cala, J., **Felix, J.D.**, Avery, G.B., Kieber, J., Willey, J.D. A Novel Static Headspace GC-MS/MS Method for the Determination of Ethanol, iso-Butanol and n-Butanol at Nanomolar Concentrations in Aqueous Environmental Samples *Limnology and Oceanography: Methods*. 10.1002/lom3.10220

2017, **Felix, J.D.**, Willey, J., *Thomas, R., Mullaugh, K.M., Avery, G.B., Kieber, R., Mead, R., Helms, J., *Cala, J., Removal of Atmospheric Ethanol by Wet Deposition. *Global Biogeochemical Cycles*. 31(2), pp.348-356.

2017, Kieber, R., Hartrey, L., **Felix, J.D.**, Corzine, C., Avery, G.B., Mead, R., Skrabal, S., Photorelease of microcystin-LR from resuspended sediments. *Harmful Algae*. Volume 63, Pages 1–6.

2017, **Felix, J.D.**, Elliott, E.M., Gay, D.A., Spatial and temporal patterns of nitrogen isotopic composition of ammonia at U.S. ammonia monitoring network sites. *Atmospheric Environment*. 150, 434-442. <http://dx.doi.org/10.1016/j.atmosenv.2016.11.039>

- 2017**, Avery, G.B., Mickler, W., *Probst, E., Mead, R.N., Skrabals, S.A., Kieber, R.J. and **Felix, J.D.**, 2016. Photochemical release of sediment bound brevetoxin (PbTx-2) from resuspended sediments. *Marine Chemistry*. Volume 189, Pages 25–31.
- 2016**, **Felix, J.D.**, Avery, G.B., Mead, R., Kieber, R., Willey, J., Nitrogen isotopic composition of Spanish Moss (*Tillandsia usneoides* L.): Nitrogen emission source implications and variations across an urban coastal air shed. *Environmental Processes*. 3(4), pp.711-722.
doi:10.1007/s40710-016-0195-6
- 2016**, Roebuck, A., Avery, G.B., **Felix, J.D.**, Kieber, J., Mead, R., Skrabal, S., Biogeochemistry of Ethanol and Acetaldehyde in Freshwater Sediments. *Aquatic Geochemistry*. 22:177.
- 2016**, Avery, G.B., Foley, L., Carroll, A., Mead, R., Kieber, J., Willey, J., Skrabal, S., **Felix, J.D.** Mullaugh, K., Helms, J., Surface waters as a sink for atmospheric gas phase ethanol. *Chemosphere*, 144, 360-365
- 2015**, Mullaugh, K.M., Hamilton, J., Avery, G.B., **Felix, J.D.**, Mead, R.N., Willey, J.D., Kieber, R.J., Temporal and spatial variability of trace volatile organic compounds in rainwater. *Chemosphere*, 134, 203-209
- 2015**, **Felix, J.D.**, Elliott, E. M., Avery, G.B., Mead, R., Kieber, R., Willey, J., Mullaugh, K. Isotopic composition of nitrate in sequential Hurricane Irene precipitation samples: Implications for changing NO_x sources. *Atmospheric Environment*. Volume 106, Pages 191–195
- 2015**, Mead, R.N., **Felix, J.D.**, Avery, G.B., Kieber, R.J., Joan D. Willey, J. D., Podgorski, D.C., Characterization of CHOS compounds in rainwater from continental and coastal storms by ultrahigh resolution mass spectrometry. *Atmospheric Environment*. Volume 105, Pages 162–168.
- 2014**, **Felix, J.D.**, Jones, S.B., Avery, G.B., Willey, J.D., Mead, R.N. and Kieber, R.J. Temporal and spatial variations in rainwater methanol. *Atmospheric Chemistry and Physics*. 14, 10509-10516.
- 2014**, **Felix, J.D.**, Elliott, E. M., Gish, T. J., Maghirang, R., Clougherty, J., Cambal, L. Examining the transport of ammonia emissions across landscapes using nitrogen isotope ratios. *Atmospheric Environment*. 95, 563-570.
- 2014**, **Felix, J.D.**, and Elliott, E. M. The isotopic composition of passively collected nitrogen dioxide emissions: Vehicle, soil and livestock source signatures and NO_x oxidation processes. *Atmospheric Environment*, 359–366.
- 2013**, **Felix, J.D.**, Elliott, E. M., Gish, T. J., McConnell, L. L., Shaw, S. L. Characterizing the isotopic composition of atmospheric ammonia emission sources using passive samplers and a combined oxidation-bacterial denitrifier approach. *Rapid Communications in Mass Spectrometry*, 27(20), 2239-2246.
- 2013**, **Felix, J.D.**, and Elliott, E. M. The agricultural history of human-nitrogen interactions as recorded in ice core $\delta^{15}\text{N-NO}_3^-$, *Geophysical Research Letters*, 40, 1642–1646.
- 2012**, **Felix, J.D.**, Elliott, E.M., Shaw, S.L. Nitrogen isotopic composition of coal-fired power plant NO_x: Influence of emission controls and implications for global emission inventories. *Environmental Science and Technology*, 46 (6), 3528–3535.

Publications in prep:

In prep, *Sharma, B., **Felix, J.D.** Ethanol concentrations in wet deposition at US AIRMoN sites

In prep, **Felix, J.D.**, Murgulet, D.M. Isotopic composition of sequentially sampled Hurricane Harvey wet deposition: Potential oxidation pathways and NO_x sources

In prep, **Felix, J.D.**, *Fraire, A., Abdulla, H., Shimizu, M. Molecular characterization of sequentially sampled Hurricane Harvey wet deposition

In prep, **Felix, J.D.**, *Campbell, J., Wetz, M. Cira, E., Abdulla, H., Stable isotopic composition of dissolved organic nitrogen fueling productivity in a semi-arid estuary

In prep, *Dunegan, W., **Felix, J.D.** Air-sea flux of ammonia in semi-arid estuaries

In prep, **Felix J.D.**, *Berner, A., Wetherbee, G. Utilizing the isotopic composition of ammonia to investigate emission sources in the Colorado Front Range

Publication results featured in:

2019, J.D. Felix. Lab Spotlight: Felix Research Group: Tracing nitrogen pollution Third Coast Science for You, Winter 2019 ed. English and Spanish version.

2012, Power Engineering Magazine. “Researchers find method of identifying sources of NO_x emissions”. April 19, 2012. <http://www.power-eng.com/articles/2012/04/researchers-find-method-of-identifying-sources-on-nox-emissions.html>

2012, Interview, Essential Public Radio, Pittsburgh (90.5). “Getting the Fingerprint of Pollution. April 20, 2012. <http://www.essentialpublicradio.org/story/2012-04-20/getting-fingerprint-pollution-10874>

2012, University of Pittsburgh Press Release, April 19, 2012. “University of Pittsburgh and Electric Power Research Institute Researchers Develop Method to Fingerprint Air Pollution: This is first U.S. study to directly measure the isotopic fingerprint of power plant emissions.” <http://www.news.pitt.edu/FngrprntArPlltn>

Non peer-reviewed reports:

Felix, J.D. and Campbell, J., 2019. Investigating Reactive Nitrogen Sources that Stimulate Algal Blooms in Baffin Bay. CBBEP report #1818

Presentations (*student presenter)

2019, Fraire, A., **Felix, J.D.**, Abdulla, H., Chemical characterization of dissolved organic matter in sequential Hurricane Harvey wet deposition samples. Fall AGU Meeting, San Francisco, CA, December 2019

2019, **Felix, J.D.**, (invited). Stable isotopic composition of NH₃ at regional and urban scales: source and transport implications. Institute of Environmental and Climate Research, Jinan University, Guangzhou, China, May 2019

2019, Felix, J.D., (invited). Continuing to increase ethanol consumption as a renewable fuel: How will vehicle ethanol emissions impact the atmosphere? Institute of Environmental and Climate Research, Jinan University, Guangzhou, China, May 2019

2019, Advancing National Urban Wet-Deposition Monitoring; The Network for Urban Atmospheric Nitrogen Chemistry. Wetherbee, G., Katie Benedict, K., **Felix, J.D.,** Murphy, S., McDonnell, J., McClintock-Rager, D., Devore, L., Webster, J., Novick, J., and Kittelman, A.S., National Water Quality Monitoring Council's 11th National Water Monitoring Conference. Denver, Colorado. March 25-29, 2019

2018, Felix, J.D., and Sharma, B. Ethanol concentrations in wet deposition collected at the Atmospheric Integrated Research Monitoring Network sites. NADP Fall Meeting. Albany, NY, November 4 -9, 2018

2018, Felix, J.D., (invited) Stable Isotopic Composition of NH₃ at Regional and Urban Scales: Source and Transport Implications. TAMU-K Department of Environmental Engineering, February 2018

2018, Shimizu, M.S., Summerlyn, S., Casas, M., **Felix J. D.,** Avery, G.B, Mead, R., Kieber, R. J., Willey, J. D., Ocean Sciences Meeting, Portland, Oregon, February 11 – 16, 2018

2018, Felix, J.D., Berner, A., Elliott, E.M., Alvarez, E. D., Stable Isotopic Composition of NH₃ at Regional and Urban Scales: Source and Transport Implications. 98th Annual AMS Meeting. Austin, TX, January 7 - 11, 2018

2017, *Berner, A., Felix, J.D., Investigating Ammonia Emission Sources In A Coastal Urban Air Shed Using Stable Isotope Techniques. AGU Fall Meeting, New Orleans, LA

2017, *Campbell, J., Felix, J.D., Wetz, M., Cira, E., Stable Isotopic Composition of Dissolved Organic Nitrogen Fueling Brown Tide in a Semi-Arid Texas Estuary. AGU Fall Meeting, New Orleans, LA

2017, Avery, G.B., Shimizu, M., Willey, J.D., Mead, R., Skrabal, S. A., Kieber, R. J., Lathrop, T., **Felix, J.D.,** Fluxes of Ethanol Between the Atmosphere and Oceanic Surface Waters; Implications for the Fate of Biofuel Ethanol Released into the Environment. AGU Fall Meeting, New Orleans, LA

2017, Felix, J.D., Willey, J., Avery, G.B., Thomas, R., Mullaugh, K.M., Kieber, R., Mead, R., Helms, J., Campos, L., Shimizu, M. (invited). Removal of Atmospheric Ethanol by Wet Deposition: A Global Flux Estimate. AGU Fall Meeting, New Orleans, LA

2017, Shimizu, M., **Felix, J.D.,** Casas, M., Avery, G.B., Kieber, R.J., Mead, R.M., Willey, J.D., Lane, C., High Relative Abundance of Biofuel Sourced Ethanol in Precipitation in the US and Brazil Determined Using Compound Specific Stable Carbon Isotopes. AGU Fall Meeting, New Orleans, LA

2017, Felix, J.D., Thomas, R., Casas, M., Megumi, S., Avery, G.B., Kieber, R.J., Mead, R.M., Lane, C., Willey, J.D., (invited). Increasing ethanol consumption as a renewable fuel: How will vehicle ethanol emissions impact the urban atmosphere? National Atmospheric Deposition Program Meeting, San Diego, CA

2016, Felix, J.D., Thomas, R., Guy, A., Avery, G. B., Kieber, R., Mead, R., Willey, J., Increasing ethanol consumption as a renewable fuel: How will vehicle ethanol emissions impact the atmosphere? American Meteorological Society Meeting, Salt Lake City, UT

2016, Kieber, R., Hartrey, L., Corzine, C., Avery, G., Mead, R., **Felix, J.D.**, Skrabal, S. Photorelease of Microcystin-LR From Resuspended Sediments. Ocean Sciences Meeting, New Orleans, LA.

2016, Mead, R., Mickler, W., Probst, E., Avery, G., **Felix, J. D.**, Kieber, R., Skrabal, S., Photorelease and Phototransformations of Sedimentary Bound Brevetoxin (PbTx-2) Upon Resuspension. Ocean Sciences Meeting, New Orleans, LA.

2016, Avery, G., Rainey, H., Mead, R., Kieber, R., Skrabal, S., **Felix, J.D.**, Helms, J. Bioavailability of Dom Photochemically Released From Resuspended Sediments. Ocean Sciences Meeting, New Orleans, LA.

2015, *Koenig, K, Willey, J.D., **Felix, J.D.**, Long, M., Ammonium Concentrations in Winter Rain: Comparison with 2002-2003 concentrations and patterns of correlation. University of North Carolina Wilmington CSURF Fellowship Competition. Wilmington, NC.

2015, Felix, J.D., Ethanol in the environment: Increasing the production and consumption of ethanol fuel. Department of Geology and Planetary Science, University of Pittsburgh, Pittsburgh, PA.

2015, Felix, J.D., Examining the sources and transport of reactive nitrogen and ethanol emissions across varying temporal and spatial scales using stable isotope techniques. Department of Chemistry, University of Central Florida, Orlando, FL

2014, *Kaye, R. T., **Felix, J.D.**, Avery, G.B., Mead, R., Willey, J.D., Kieber, R.J. Rainwater contributions of ethanol to surface water: Developing a stable isotopic composition approach to source apportionment. Southeastern Estuarine Research Society Fall Meeting, Carolina Beach, NC.

2014, *Cala, J. C., **Felix, J.D.**, Avery, G.B., Mead, R., Willey, J.D., Kieber, R.J. Tracing vehicle ethanol emissions and subsequent deposition to roadside ecosystems. Southeastern Estuarine Research Society Fall Meeting, Carolina Beach, NC.

2014, *Dingess, E., Kieber, R.J., Willey, J.D., **Felix, J.D.**, Avery, G.B., Mead, R. Ethanol's impacts on the composition and optical properties of chromophoric dissolved organic matter in rainwater in Wilmington, North Carolina. Southeastern Estuarine Research Society Fall Meeting, Carolina Beach, NC.

2014, *Mangiacapre, M., Avery, G.B., Skrabal, S., **Felix, J.D.**, Mead, R. Kieber, R.J. Phototransformation of polycyclic aromatic hydrocarbons in crude oil amended marine sediment upon resuspension into the photic zone. Southeastern Estuarine Research Society Fall Meeting, Carolina Beach, NC.

2014, Elliott, E.M., **Felix, J.D.**, Rose, L.A. Soil NO_x Emissions: Not So Innocuous? 31st Conference on Agricultural and Forest Meteorology, Portland, OR.

2013, Elliott, E.M., **Felix, J.D.**, Rose, L.A., Kendall, C., Boyer, E.W., Burns, D.A. Soil NO_x Emissions: Not So Innocuous? Gordon Research Conference on Catchment Science: Interactions of Hydrology, Biology & Geochemistry. Proctor Academy, Andover New Hampshire.

2012, **Felix, J.D.**, Elliott, E.M., (*invited*). Investigating the sources, transport, and oxidation pathways of nitrogen oxide using nitrogen and oxygen stable isotopes, AGU Fall Meeting, San Francisco, CA.

2012, Cambal, L.K., Elliott, E.M., **Felix, J.D.**, Tunno, B., Howel, J., Michanowicz, D., Carr, J.L., Gillooly, S, Shields, K, N., Clougherty, J.E. Developing Methods to Determine the Nitrogen Isotopic Composition ($\delta^{15}\text{N}$) in NO₂ for Source Apportionment in an Urban Area. 22nd Annual Meeting of the International Society of Exposure Science. Seattle, Washington.

2012, **Felix, J.D.**, Elliott, E.M., Gay, D. Utilizing the nitrogen isotopic composition of ammonia to investigate regional transport of ammonia emissions: $\delta^{15}\text{N-NH}_3$ values at AMoN sites, NADP National Meeting, Portland, ME.

2012, **Felix, J.D.**, Elliott, E.M., (*invited*). Examining the sources and transport of agricultural reactive N emissions using stable isotope techniques 244th ACS National Meeting, Philadelphia, PA.

2012, **Felix, J.D.**, Elliott, E.M. Investigating ammonia emission sources and transport using stable nitrogen isotopes. 244th ACS National Meeting, Philadelphia, PA.

2011, **Felix, J.D.**, Elliott, E.M., (*invited*). Using stable isotopes of reactive N in dry and wet deposition to investigate the source, transport, and fate of NO_x and NH₃, AGU Fall Meeting, San Francisco, CA.

2011, **Felix, J.D.**, Elliott, E.M., Maghirang, R., Briggs, J., McConnell, L., Gish, T., Hastings, M., Gay, D. Source apportionment and tracing of agricultural and fossil fuel reactive N emissions using stable isotopic composition. 242nd ACS National Meeting, Denver, CO.

2011, Elliott, E.M. and **Felix, J.D.** Stable Isotopes of Reactive Nitrogen and Particulate Matter: Improved Tools for Characterizing the Transport and Fate of Agricultural Emissions. NIFA AFRI Air Quality Project Directors Meeting. Washington, DC.

2011, Elliott, E.M., Redling, K.M., Sikora, M.T., **Felix, J.D.** Spatial heterogeneity in atmospheric reactive nitrogen deposition to urbanizing landscapes: Implications for water quality, ecosystem, and human health. Northeastern and North-Central Joint Meeting of the Geological Society of America, Pittsburgh, PA.

2011, Elliott, E.M., **Felix, J.D.** New insights about reactive nitrogen and agricultural ecosystem processes. National Atmospheric Deposition Program, Annual Meeting and Scientific Symposium. Providence, RI.

2011, **Felix, J.D.**, Elliott, E.M. Investigating the source, transport, and fate of ammonia emissions using stable isotopes, Isoscapes 2011 meeting, Purdue University, West Lafayette, IN.

2011, **Felix, J.D.**, Elliott, E.M. Source apportionment of urban and rural reactive nitrogen emissions. Geological Society of America Abstracts with Programs, Vol. 43, No. 1, p. 122, Pittsburgh, PA.

2011, Shaw, S.L, **Felix, J.D.**, Elliott, E.M. Using stable nitrogen isotopic signatures as source tracers for atmospheric nitrate: coal-fired power plant emissions AAAR 30th Annual Conference, Orlando, FL.

2010, **Felix, J.D.**, Elliott, E.M, Shaw S.L. Stable nitrogen isotopes of NO_x at two coal-fired power plants. Air and Waste Management Association (AWMA), Symposium on Air Quality Measurement Methods and Technology, Los Angeles, CA, Control No.: 2010-A-86-ME-AWMA.

2010, **Felix, J.D.**, and Elliott, E.M., (*invited*). Apportionment of reactive N emissions using stable isotopes: Demonstrating proof of concept across spatial scales. EOS Trans. AGU, 91(52), Fall Meet. Suppl., Abstract #B42E-06.

2010, Elliott, E.M. and **Felix, J.D.** Stable Isotopes of Reactive Nitrogen & Particulate Matter: Improved Tools for Characterizing the Transport and Fate of Agricultural Emissions. USDA National Research Initiative, Air Quality Project Director's Meeting. Amarillo, TX.

2009, **Felix, J.D.**, Elliott, E.M. Assessing the use of NH₃ isotopic composition collected by passive samplers to indicate regional NH₃ emission sources. NADP Annual Meeting and Scientific Symposium Saratoga Springs, NY.

2009, **Felix, J.D.**, Elliott, E.M. Distinguishing sources and fate of atmospheric reactive nitrogen and particulate matter using stable isotopes. 238th ACS National Meeting, Washington, DC.

2009, **Felix, J.D.**, Elliott, E.M. Stable Isotopes of Reactive Nitrogen and Particulate Matter: Improved Tools for Characterizing the Transport and Fate of Agricultural Emissions. NRI Air Quality Project Directors Meeting, Kansas City, MO.

Awards

Graduate Research Fellowship, Geological Society of America, 2010

Henry Leighton Memorial Scholarship Research Grant, University of Pittsburgh, 2010

Manuscript reviewer

Journal of Geophysical Research-Atmospheres, Analytical Chemistry, Atmosphere-Ocean, Atmospheric Environment, Biogeochemistry, Atmospheric Research, Pedosphere, Atmosphere, Geophysical Research Letters, Atmospheric Chemistry and Physics, Estuarine Coastal and Shelf Science, Rapid Communications in Mass Spectrometry, Environmental Science and Technology, Environmental Pollution, Environmental Science and Technology Letters, Environmental Processes, Geochimica et Cosmochimica Acta, Chemical Reviews, Science of the Total Environment

Proposal reviewer

National Science Foundation, Atmospheric Chemistry Postdoc Fellowship

USDA 2018, SBIR Air, Water and Soils, Phase I

National Science Foundation, Chemical Oceanography

Graduate student advisee

- Rachel Thomas, Marine Science M.S. 2016 (co-advisor)
- Jacquelyn Campbell, Coastal and Marine System Science, M.S. 2018
- Alexander Berner, Environmental Science, M.S. 2019

- Bipin Sharma, Environmental Science, M.S. 2019
- Scilyn Apacible, Chemistry, M.S., current
- Warren Dunegan, Environmental Science, M.S. current
- Adrianna Chapa, Environmental Science, M.S. current
- Anthony Cox, Coastal and Marine System Science, Ph.D. current
- Yixi Qiu, Coastal and Marine System Science, Ph.D. current

Graduate Committee Member, Ph.D.

- Abishek Adhikari, Coastal and Marine System Science Ph.D. 2019
- Emily Cira, Coastal and Marine System Science Ph.D. current
- Audrey Douglas, Coastal and Marine System Science Ph.D. current
- Melissa McCutcheon, Coastal and Marine System Science Ph.D. current
- Sagar Shrestha, Coastal and Marine System Science Ph.D. current
- Hao Yu, Coastal and Marine System Science Ph.D. current
- Larissa Dias, Coastal and Marine System Science Ph.D. current

Graduate Committee Member, M.S.

- Amanda Guy, Chemistry M. S. 2013
- Angela Carroll, Chemistry M. S. 2013
- Alan Roebuck, Chemistry M. S. 2013
- Laura Foley, Marine Science M.S. 2013
- H. Doug Rainey, Marine Science M.S. 2015
- Wesley Mickler, Marine Science M.S. 2015
- John Cala, Chemistry M. S. 2016
- Erin Dingess, Chemistry M. S. 2016
- Cody Lopez, Environmental Science, M.S. 2018
- Corrie Clarke, Chemistry, M.S., M.S. 2019

Visiting Ph.D. student advisee

- Edison Armando Diaz Alvarez, Ecology, Ph.D., Universidad Nacional Autónoma de México

University Service

- Member, Organic chemistry faculty search committee, 2016-2017
- Member, Geology (geophysics) faculty search committee, 2017-2018
- Convener, Coastal and Marine System Science Membership Committee, 2017-
- Member, Graduate Council, 2017
- Member, Graduate Awards Committee, 2017-
- Committee Chair, College of S&E Distinguished Speaker Series, 2017-
- Committee Chair, Chemistry Instrumentation Committee, 2018-
- Member, Geology faculty search committee, 2019

Professional Affiliations

American Geophysical Union, American Chemical Society, Texas One Gulf Center of Excellence, American Meteorological Society, Ingleside on the Bay Coastal Watch (board)