

JOSEPH DANIEL ORTIZ

Professor, Department of Geology, Kent State University

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Education

Ph.D., Oceanography, 1995. (Advisor: Dr. Alan C. Mix)
Oregon State University, Corvallis OR, Major: Marine Geology.
Thesis: *Planktic Foraminifers of the California Current at 42°N: Last Glacial Maximum and Present.*

B.S., with Honors, 1988. (Advisor: Dr. Warren Prell)
Brown University, Providence RI, Major: Aquatic Biology.
Honors thesis: *An Ecological Model of Stable Isotope Variation and Size Distribution in Northern Indian Ocean Populations of G. bulloides*

Current Employment

- Professor with Tenure, Department of Geology, Kent State University, Sept., 2011-

Prior Employment

- Associate Professor with Tenure, Department of Geology, Kent State University, Sept. 2005-2011.
- Assistant Director, Water Resources Research Institute, Kent State University, Sept. 2006-2008.
- Assistant Professor, Department of Geology, Kent State University, Aug. 2001-2005.
- Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory (L-DEO), Columbia University, Aug. 2001-2003.
- Associate Research Scientist, Lamont-Doherty Earth Observatory (L-DEO), Columbia University, July 1998-2001.
- Adjunct Assistant Professor, Division of Natural Sciences, St. Thomas Aquinas College, Sparkill, NY, Spring 2001 (Concurrent with L-DEO)
- Adjunct Assistant Professor, Department of Environmental Science, Barnard College, New York, New York, Fall 2000-2001 (Concurrent with L-DEO)
- Visiting Assistant Professor (part time), Department of Earth and Environmental Sciences, Wesleyan University, Middletown CT, Spring 1999-2000 (Concurrent with L-DEO)
- Post-doctoral Research Scientist, L-DEO, Columbia University, Advisor: Dr. W. Broecker, Feb. 1996 - June 1998.
- Post-doctoral Research Assistant, College of Oceanic and Atmospheric Sciences (COAS), Oregon State University (OSU), Advisor: Dr. A.C. Mix, May-Dec. 1995.

Research and Education Grants (Total funds raised: \$8,377,925 from 1990 to present)

Awards at KSU (\$7,420,117 from 2001 to present)

- Herbert W Hoover Foundation, *Field-scale estimates of soil carbon based on modeling and soil optical properties*, \$175,000, 2021.
- National Geographic Society 2020 Explorer Travel Grant, *Capacity building for ocean color remote sensing in support of fisheries management in the northern Benguela Current*, \$30,000, 2020.
- Kent Environmental Council, *Environmental Science and Design Research Initiative Symposium*, \$500, 2019.
- Ohio Space Grant Consortium, *Ohio Space Grant Consortium FY2019-2020 Junior/Senior Scholarships*, \$7,063, 2019-2020.
- Herbert W Hoover Foundation: *Monitoring Lake Okeechobee Toxic Blooms: Google Earth Engine and KSU spectral Decomposition Method* **J. Ortiz**, J. Amos (SkyTruth), \$180,000. 2018-
- National Aeronautics and Space Administration *Remote Sensing Research for Harmful Algal Blooms in Inland Water*, \$58,971, 2017-
- Herbert W Hoover Foundation: *Science in support of management and restoration in Biscayne Bay National Park, Florida*, **J. Ortiz**, L. Kaufman (BU), \$140,002. 2018-
- Herbert W Hoover Foundation: *CyanoHAB identification in the Indian River Lagoon, Florida*, **J. Ortiz**, Edith Widder (ORCA), \$70,838, 2016-
- OSGC/NASA, *Ohio Space Grant Campus Allotment, FY2016-2017*, **J. Ortiz**, \$2,230, 2016
- Ohio Sea Grant 2015 Small Grant Award (R/ER-117-PD): *What limits growth in the Detroit River Plume?*, **J. Ortiz**, G. Bullerjahn, and M. McKay (BGSU), \$10,000, 2016
- Amendment to National Aeronautics and Space Administration (NNC15VB05P), *Ground Data Acquisition and Processing for Hyperspectral Imaging of Harmful Algal Blooms (HABs)*, \$10,000, 2017-
- Amendment to National Aeronautics and Space Administration (NNC15VB05P), *Ground Data Acquisition and Processing for Hyperspectral Imaging of Harmful Algal Blooms (HABs)*, \$50,000, 2016-2017.
- Amendment to National Aeronautics and Space Administration (NNC15VB05P), *Ground Data Acquisition and Processing for Hyperspectral Imaging of Harmful Algal Blooms (HABs): NASA-SIF Citizen Science Monitoring project*, \$10,000, 2016-2017.
- National Institutes for Water Resources-OH Water Resources Center, (6004013), *Policy Tools for Reducing Nutrient Loads and Combating Harmful Algal Blooms (HABS) in Lake Erie: An Inventory and Assessment* (Key personnel), \$24,455, 2015
- Ohio Space Grant Consortium, *Ohio Space Grant Consortium FY2015-2016 Junior/Senior Scholarships*, \$18,000, 2015-2016.
- Ohio Space Grant Consortium, *Ohio Space Grant Consortium FY2014-2015 Junior/Senior Scholarships*, \$24,250, 2014-2015.
- Ohio Space Grant Consortium, *Ohio Space Grant Consortium Doctoral Fellowship*, \$30,000, FY2014-2015.

Awards at KSU (Continued)

- NASA EPSCoR subaward, Using NASA's Ocean Color Sensors to Identify Effects of Watershed Development and Climate Change on Coastal Marine Ecosystems of the US Virgin Islands, Project PI: A. Ali, College of Charleston; USVI PIs: M. Brand, T. Smith; KSU PI J.D. Ortiz: \$80,000, 2016-2019.
- National Aeronautics and Space Administration (NNC15VB05P), *Ground Data Acquisition and Processing for Hyperspectral Imaging of Harmful Algal Blooms (HABs)*, \$89,000, 2014-2016.
- Ohio Board of Regents Water Quality Grant: *HAB Detection, Mapping, and Warning Network: Sandusky Bay*, G.S. Bullerjahn, R. M. McKay, **J.D. Ortiz**, D. Bade, J. Chaffin; Kent State Sub-award to **J. Ortiz** and D. Bade: \$128,349, 2014.
- Ohio Sea Grant 2014 Special Small Grant Award (R/ES-021-PD): *Development of an expanded pigment spectral library for identification of phytoplankton by visible derivative spectroscopy*, **J. Ortiz**, S. Parab (KSU), \$12,000, 2014.
- Kent State University Student Multicultural Center Scholars program, The Honor Project Trust, *Cy Pres Initiative Tier II Grant*, O. Ramos, **J. Ortiz**, and Y. Delgado, \$45,000, 2014.
- KSU University Research Council award: *Field Studies of Microcystis, a harmful algal bloom causing algae in Grand Lake St. Marys*, **J. Ortiz**, \$3,500; 2014.
- Ohio Sea Grant 2014 Small Grant Request (R/ER-105-PD): *HPLC-measured Pigment and Growth Response of the Harmful Algal Species Microcystis (Cyanophyceae) to Variable Environmental Conditions*, S. Parab (KSU), **J. Ortiz**, K. Ali (College of Charleston), \$10,000, 2014.
- NSF DUE TUES Grant: *Bridging the Conceptual Divide Between Theoretical and Applied Environmental Chemistry*, A. Jefferson, L. Griffith, **J. Ortiz**, D. Dees, \$199,819, 2012.
- Ohio Sea Grant 2012 Small Grant Request (R/ER-100-PD): *Improving techniques of water quality monitoring in the Western Basin of Lake Erie*, **J. Ortiz**, K. Ali (College of Charleston), and Nick Bonini (KSU Geology), \$10,000, 2012.
- Ohio Sea Grant 2012 Ship time request: *Ship time support for Improving techniques of water quality monitoring in the Western Basin of Lake Erie*, **J. Ortiz**, K. Ali (College of Charleston), and Nick Bonini (KSU Geology), (monetary value ~\$5,000), 2012
- NSF DUE S-STEM Scholarship grant: *Scholarships for Broadening Participation in the Sciences*, PI: J. Maletic, **J. Ortiz**, R. Selinger, J. Portman, A. Case, \$599,999; 2012-
- US State Department, Institute of International Education (SIZ-100-11-GR070), *Fulbright Visiting Scholar Program for Iraq at Kent State University*, (Key personnel) \$108,000, 2012.
- Ohio Sea Grant 2010 Small Grant Request (R/ER-088-PD): *A Water Quality Monitoring Program in the Western Basin of Lake Erie*, **J. Ortiz**, D. Witter, and K. Ali (KSU Geology), \$10,000, 2010
- Ohio Sea Grant 2010 Ship time request: *Ship time support for a Water Quality Monitoring Program in the Western Basin of Lake Erie*, **J. Ortiz**, D. Witter, and K. Ali (KSU Geology), (monetary value ~\$4,979), 2010.
- NSF ARC Grant: *Collaborative research: Unraveling the post-Pliocene Arctic Ocean transition to the icehouse climate*, **J. Ortiz**, and L. Polyak (Ohio State Univ.), \$89,137; 2010.

Awards at KSU (continued)

- NSF DGE IGERT Grant: “Environmental Aquatic Resources Sensing: Basin Science, Business Education and Outreach” (Senior Personnel- assisted in grant writing, participated in program and mentored a student on the award), \$2,896,040; 2009.
- NSF ARC Grant: *Collaborative Research: Understanding the physics of the Bering Strait through paleoceanography and modeling*, **J. Ortiz** and Doron Nof (FSU), \$187,969; 2009.
- NSF EAR Grant: *Collaborative Research: Spatial and Temporal Patterns of Drought in Western North America during the Holocene*, **J. Ortiz** and M. Abbott (University of Pittsburgh), \$235,416; 2009.
- Ohio Sea Grant Ship time request (R/ES-010-ST): *Summer 2009 Water Quality and Heterotrophic microplankton Diversity in the Western Basin of Lake Erie*, **J. Ortiz**, D. Witter (KSU Geology), and J. Mou (KSU Biology), (monetary value ~\$3,840), 2009.
- NSF ARC Grant: *Collaborative Research: Paleoceanographic constraints on the warming Arctic Ocean*, **J. Ortiz**, L. Polyak (Ohio State Univ.), D. Darby (Old Dominion University), J. Bischof (Old Dominion University), \$134,181; 2008.
- Ohio Board of Regents Research Challenge Grant: *Direct Observation of sediment transport during Hurricanes*, **J. Ortiz** (KSU Geology), T. Schmidlin (KSU Geography) and A. Moore (Earlham College), \$46,000; 2007.
- Ohio Sea Grant Ship time request (R/ER-078-ST): *A Novel water quality monitoring program for the Western Basin of Lake Erie and Sandusky Bay*, **J. Ortiz**, D. Witter, and N. Wijekoon, (monetary value ~\$4,000), 2007.
- NSF DUE S-STEM Grant: *Kent State University Scholarships for Broadening Participation in the Sciences*, J. Maletic (KSU CS), **J. Ortiz** (KSU Geology), R. Selinger (KSU LCI), S. Lee (KSU Chemistry), John Portman (KSU Physics), \$499,896; 2006-2012.
- NSF Grant: *Collaborative Research: Investigating Holocene paleoclimate in the western Arctic Ocean using high-resolution Alaskan Margin records*, **J. Ortiz** (KSU), D. Darby (ODU), S. Brachfield (Montclair State), L. Polyak (Byrd Polar Research Center, Ohio State Univ.), \$62,699; 2006-2010.
- NSF ARC Grant: *Collaborative research: Understanding the distribution and stable-isotopic composition of planktonic foraminifera in the western Arctic Ocean*, Collaborative **J. Ortiz** (KSU), and L. Polyak (BPRC), \$35,097; 2005-2008.
- NSF DGE Grant: *Track 1, GK-12 Inquiry-based Approaches to Earth System Science*, M. Munro-Stasiuk (KSU), **J. Ortiz** (KSU), D. Witter (KSU), R. Dinko (Stark County Educational Services Center), S. Sheridan (KSU), and N. BakerCazan (SCECC), \$1,244,131; 2004-2008.
- KSU University Research Council award: *Re-evaluation of the Arctic Ocean Sedimentary Stratigraphic Record: Implications for variations in Sea Ice Cover and Future Arctic Climate Change*, **J. Ortiz**, \$3,136; 2006.
- KSU University Research Council award: *Travel funds to participate in an Oceanographic research cruise (HLY0501) to the Chukchi Sea aboard the USCGC Healy*, **J. Ortiz**, \$3,500; 2005

Awards at KSU (continued)

- Ohio Sea Grant Ship time request: *Calibration of Remotely-Sensed Suspended Sediment Concentration in the Western Basin of Lake Erie (Case II Waters)*, **J. Ortiz**, M. Munro-Stasiuk, and D. Witter, (monetary value \$3,872), 2004.
- NSF OCE Grant: *Supplemental Award: Collaborative Research: A high resolution record of productivity and/or ventilation of the northeast Pacific from Soledad Basin, Baja California*, **J. Ortiz**, \$14,927, 2003-2004.
- NSF OCE Grant: *Collaborative Research: A high resolution record of productivity and/or ventilation of the northeast Pacific from Soledad Basin, Baja California*, Collaborative **J. Ortiz**, A. van Geen (LDEO), T. Marchitto (LDEO), and Y. Zheng (Queens), \$135,991, 3 years, 2002-2005.
- Kent State University Farris Family Innovation Fund for Early Achievement Grant: *Paleoclimate change research off Baja California*, **J. Ortiz**, \$25,500, 2002-2005.
- Kent State University Teaching Council Summer Teaching Development Grant: *Course development: Teaching aids for a new course, Light Isotope Geology*, **J. Ortiz**, \$6,500, 2002
- Educational Consultant to: *Collaborative Research: Connecting with the River: Geoscience Research and Education for Hartford, CT*, NSF Geodiversity Grant to S. O'Connell, J. Morrison, and J. Osborn, \$9,222, 2001-2003.

Prior Awards (\$957,808 from 1990 to 2001)

- NSF DUE Grant: *Collaborative Research: The Cross-Rock Collaborative--Science Teachers for the New Millennium*, Dr. K. Kastens, **J. Ortiz** (LDEO), and Dr. P. Solomon (STAC), \$114,966; 2000-2001.
- NSF OCE grant: *Subtropical Signatures of Holocene Climate Variability*, P. deMenocal and **J. Ortiz**, 3 years, \$246,241, 1999-2001.
- NSF OCE grant: *Experimental Determination of Equilibrium and Kinetic Fractionation of Boron, Carbon and Oxygen Isotopes during Carbonate Precipitation*, **J. Ortiz**, A. Sanyal and W. Broecker, 3 years, \$347,061; 1998-2001.
- ODP JOI/USSSP grants: ODP Leg 177 Participation and Post-cruise Science Support: *Participation on a Scientific Cruise of the JOIDES Resolution and Post-Cruise Processing of Split Core Analysis Track (SCAT) Records Obtained from ODP Leg 177 sediments*, **J. Ortiz**, \$35,962, 1998-1999.
- Lamont-Doherty Climate Center Grant: *Metabolic Rate and Ca-ATPase in Benthic Foraminifera*, **J. Ortiz**, \$1,900; 1998.
- Lamont-Doherty Climate Center Grant, *Diffuse Spectral Reflectance Measurements of Southern Ocean Sediments Recovered during a 1995 Cruise aboard R/V Thompson*, **J. Ortiz**, \$6,000; 1997.
- ODP JOI/USSSP Post-cruise Science Support grant: *Spectral Reflectance of North Atlantic Drift Sediments: Developing High Resolution Proxies for Percent Carbonate and Sediment Mineralogy (ODP Leg 162)*, **J. Ortiz** and W. Broecker, \$14,500; 1996.
- NSF OCE Grant: *Testing Models of Carbon and Oxygen Isotopic Disequilibrium in Planktic Foraminifers*, A. Mix and **J. Ortiz**, \$125,178; 1994-1996.
- NASA Graduate Student Research Fellowship: *Comparison of CZCS, AVHRR, and Sediment Trap Flux in the California Current*, **J. Ortiz**, Mentor, Dr. M. Abbott, \$66,000; 1990-1993.

Research Cruises/Field Campaigns (20 campaigns total)

- 2019 Environment Canada RV Limnos Lake Erie Cruise. Invited participant on a two-week long water quality monitoring cruise in Aug to the Western and Central Basin of Lake Erie. Co-PIs: Caren Binding Arthur Zastepa
- 2019 Detroit River Plume campaign; Two sampling trips along a transect from the Maumee to the Detroit River Plume in Aug with NASA Glenn to validate NASA HSI2 and HSI3 aerial remote sensing data and the KSU spectral decomposition method.
- 2019 Lake Okeechobee field work; Week-long campaign for sampling of water quality in the Lake Okeechobee to collect validation data for remote sensing of water quality field-based spectroradiometer and fluoroprobe measurements
- 2018 USVI field work; Week-long campaign for sampling of water quality in the coastal waters around St. Thomas to provide validation data for remote sensing of water quality and coral health using field and shore-based spectroradiometer measurements
- 2018 Detroit River Plume campaign; Four sampling trips along a transect from the Maumee to the Detroit River Plume in August and September in collaboration with NASA Glenn to validate NASA HSI2 and HSI3 aerial remote sensing data and the KSU spectral decomposition method.
- 2017 Sandusky Bay CyanoHAB Bloom campaign; Approximately bi-weekly Field sampling from June to September in collaboration with Bowling Green during multiple day cruises and shore-based spectroradiometer measurements in support of Visible Hyperspectral aerial and remote sensing by NASA.
- 2017 USVI field work; Sixteen-day campaign for sampling of water quality in the coastal waters around St. Thomas to provide validation data for remote sensing of water quality and coral health using field and shore-based spectroradiometer measurements.
- 2017 Detroit River Plume campaign; Two sampling trips along a transect from the Maumee to the Detroit River Plume in August and September in collaboration with Bowling Green to test mechanisms of autotrophic growth limitation in conjunction with field observations and remote sensing by NOAA.
- 2016 USVI field work; Week-long campaign for sampling of water quality in the coastal waters around St. Thomas to provide validation data for remote sensing of water quality and coral health using field and shore-based spectroradiometer measurements
- 2016 Detroit River Plume campaign; Two sampling trips along a transect from the Maumee to the Detroit River Plume in August and September in collaboration with Bowling Green to test mechanisms of autotrophic growth limitation in conjunction with field observations and remote sensing by NOAA.
- 2016 Sandusky Bay CyanoHAB Bloom campaign; Weekly Field sampling from June to September in collaboration with Bowling Green during multiple day cruises and shore-based spectroradiometer measurements in support of Visible Hyperspectral aerial and remote sensing by NASA.
- 2015 Sandusky Bay CyanoHAB Bloom campaign; Weekly Field sampling from June to September in collaboration with Bowling Green during multiple day cruises and shore-based spectroradiometer measurements in support of Visible Hyperspectral aerial and remote sensing by NASA.
- 2014 Lake Erie CyanoHAB Bloom campaign; Field sampling during multiple day cruises and shore-based spectroradiometer measurements in support of Visible Hyperspectral aerial and remote sensing by NASA and the Naval Research Lab.
- IMAGES-IPY Eastern Canadian Arctic Expedition, (Halifax-Halifax), CCGS *Hudson*, [Aug. 24-Sept 23, 2008].

Research Cruises/Field Campaigns (Continued)

- HOTRAX Leg 1, HLY0501, (Point Barrow, Alaska-Point Barrow, Alaska), *USCGC Icebreaker Healy*, June, 2005.
- IMAGES MONA Expedition, Leg 2 (San Diego-Panama City), *Marion Dufresnes*, June 7- June 25, 2002.
- ODP Leg 177, Southern Ocean Paleoceanography, *R/V Joides Resolution (SEDCO/BP471)*, Sedimentologist and Operator, OSU Split Core Analysis Track (SCAT), December –February, 1997.
- ODP Leg 162, North Atlantic Arctic Gateways II, *R/V Joides Resolution (SEDCO/BP 471)*, Sedimentologist and Operator, OSU SCAT, July - September 1995.
- Four Multitracers Project cruises (W9009A, NH9003A, W8909A, and W8809A) on *R/V Wecoma* and *R/V New Horizon*, Assisted in MOCNESS sampling and operation, sediment trap deployment and recovery, gravity and box coring operations, Two-week cruises during September, 1988, 1989, 1990, and March 1990.
- Two Day cruises (NH5 time series) on *R/V Sacajawea*, 37' coastal oceanographic research vessel at Oregon State University. Assisted in horizontal plankton tows with Puget Sound net, Niskin bottle sampling, and CTD deployment, 1991-1992.

Patents

- KSU.348: US Utility Patent Application for “Core measurement stand for use with a portable XRF scanner”, Ser. No.: 12/769,892; 2010
- KSU.348: US Provisional Patent for “Core measurement stand for use with a Portable XRF Analyzer”, Ser. No.: 61/174,182; 2009

Refereed Publications (83 publications)

(As of 1/12/2021: 47 are ISI-tracked works with a total of 3,363 citations for an average citation rate of 71.5 citations per paper, 129.3 average citations per year and an *h-index* of 24; Google Scholar tracks 5592 citations for an *h-index* of 31, *i10-index* of 55, and an average of 398.8 citations per year since 2016; ResearchGate tracks 22,281 reads, 5,490 citations, 37.57 RG Score (95th percentile); h-index of 28; h-index excluding self-citations, 28).

83. Olaoye, I.A., Confesor, R.B., Jr., **Ortiz, J.D.** Effect of Projected Land Use and Climate Change on Water Quality of Old Woman Creek Watershed, Ohio. *Hydrology*, 2021, 8, 62. <https://doi.org/10.3390/hydrology8020062>.
82. Olaoye, I.A., Confesor, R.B., Jr., **Ortiz, J.D.** Impact of Seasonal Variation in Climate on Water Quality of Old Woman Creek Watershed Ohio Using SWAT. *Climate*, 2021, 9, 50. <https://doi.org/10.3390/cli9030050>.

Refereed Publications (Continued)

81. Cawse-Nicholson, K., Townsend P.A., Schimel, D., Assiri, A.M., Blake, P.L., Buongiorno, M.F., Campbell, P., Carmon N., Casey, K.A., Correa-Pabón, R.E., Dahlin K.M., Dashti, H., Dennison, P.E., Dierssen H., Erickson, A., Fisher, J.B., Frouin, R., Gatebe, C.K., Gholizadeh, H., Gierach, M., Glenn, N.F., Goodman, J.A., Griffith D.M., Guild, L., Hakkenberg, C.R., Hochberg, E.J., Holmes, T.R.H., Hu C., Hulley, G., Huemmrich, K.F., Kudela, R.M., Kokaly, R.F., Lee, C.M., Martin, R., Miller C.E., Moses W.J., Muller-Karger, F.E., **Ortiz, J.D.**, Otis, D.B., Pahlevan, N., Painter, T.H., Pavlick, R., Poulter B., Qi, Y., Realmuto, V.J., Roberts, D., Schaepman, M.E., Schneider F.D., Schwandner F.M., Serbin, S.P., Shiklomanov A.N., Stavros, E.N., Thompson D.R., Torres-Perez J.L., Turpie, K.R., Tzortziou, M., Ustin, S., Yu, Q., Yusup, Y., Zhang, Q., the SBG Algorithms Working Group NASA's surface biology and geology designated observable: A perspective on surface imaging algorithms, *Remote Sensing of Environment* 257 (2021) 112349, <https://doi.org/10.1016/j.rse.2021.112349>.
80. Maselli, V., Oppo, D., Moore, A.L, Gusman, A.R., Mtelela, C., Iacopini, D., Taviani, M., Mjema, E., Mulaya, E., Che, M., Tomioka, A.L., Mshiu, E., and **Ortiz, J.D.**, A 1,000-year-old tsunami in the Indian Ocean points to greater risk for East Africa: REPLY, *GEOLOGY*, 49, 2021. e516-e516, <https://doi.org/10.1130/G47257.1>
79. **Ortiz, J.D.** and Jackson, R. Understanding Eunice Foote's 1856 Experiments: Heat absorption by atmospheric gases, *Notes and Records*, doi:10.1098/rsnr.2020.0031, 2020. <https://royalsocietypublishing.org/doi/10.1098/rsnr.2020.0031>
78. Judice, T., Widder, E.A., Falls, W.H., Avouris, D.M., Cristiano, D.J., & **Ortiz, J.D.** Field-validated detection of *Aureoumbra lagunensis* brown tide blooms in the Indian River Lagoon, Florida using Sentinel-3A OLCI and ground-based hyperspectral spectroradiometers, *GeoHealth*, 2020. <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2019GH000238>
77. Maselli, V., Oppo, D., Moore, A.L, Gusman, A.R., Mtelela, C., Iacopini, D., Taviani, M., Mjema, E., Mulaya, E. Che, M.m Tomioka, A.L., Mshiu, E., and Ortiz, J.D., A 1,000-year-old tsunami in the Indian Ocean points to greater risk for East Africa, *GEOLOGY*, 48, 2020. <https://doi.org/10.1130/G47257.1>
76. **Ortiz, J.D.**, Palaeoclimate: ancient ice sheet collapse, *Nature Geoscience* volume 13, 328–329, 2020. <https://www.nature.com/articles/s41561-020-0572-7>
75. Akins, L., **Ortiz, J.D.**, Leff, L.G., (2019) Strain-specific responses of toxic and non-toxic *Microcystis aeruginosa* to exudates of heterotrophic bacteria, *Hydrobiologica*, <https://doi.org/10.1007/s10750-019-04073-4>.
74. **Ortiz, J.D.**, Avouris, D. Schiller, S.J., Luvall, J.C., Lekki, J.D., Tokars, R.P., Anderson, R.C., Shuchman, R., Sayers, M. and R. Becker, (2019) Evaluating visible derivative spectroscopy by varimax-rotated, principal component analysis of aerial hyperspectral images from the western basin of Lake Erie, *Journal of Great Lakes Research*, Volume 45, Issue 3, June 2019, Pages 522-535, <https://doi.org/10.1016/j.jglr.2019.03.005>

Refereed Publications (Continued)

73. Avouris, D.M. and **Ortiz, J.D.**, (2019) Validation of 2015 Lake Erie MODIS image spectral decomposition using visible derivative spectroscopy and field campaign data, *Journal of Great Lakes Research* Volume 45, Issue 3, June 2019, Pages 466-479, <https://doi.org/10.1016/j.jglr.2019.02.005>.
72. Shuchman, R., Binding, C., Leshkevich, G., **Ortiz, J.**, (2019). Remote sensing of harmful algal blooms (HABs) in Lake Erie and other surrounding inland waters: Foreword to special section, *Journal of Great Lakes Research*, Volume 45, Issue 3, June 2019, Pages 403-404, <https://doi.org/10.1016/j.jglr.2019.03.015>.
71. Mitra, R., Marchitto, T.M., Ge, Q., Zhong, B., Kanakiya, B., Cook, M.S. Fehrenbacher, J.S., Ortiz, J.D., Tripathi, A., and E. Lobaton, (2019) Automated species-level identification of planktic foraminifera using convolutional neural networks, with comparison to human performance, *Marine Micropaleontology*, 147, 16-24.
70. Dipre, G.R., Polyak, L., Kuznetsov, A.B., Oti, E.A., **Ortiz, J.D.**, Brachfeld, S.A., Xuan, C., Lazar, K.B., Cook, A.E., (2018) Plio-Pleistocene sedimentary record from the Northwind Ridge: new insights into paleoclimatic evolution of the western Arctic Ocean for the last 5 Mam, *Arktos* 4: 24. <https://doi.org/10.1007/s41063-018-0054-y>
69. Finkenbinder, M.S., Abbott, M.B., Stoner, J.S., **Ortiz, J.D.**, Finney, B.P., Dorfman, J.M., Stansell, N.D., Millennial-scale variability in Holocene aquatic productivity from Burial Lake, Arctic Alaska, *Quaternary Science Reviews*, 187, 220-234, 2018
68. Waugh DA, Suydam RS, **Ortiz JD**, Thewissen JGM (2018) Validation of Growth Layer Group (GLG) depositional rate using daily incremental growth lines in the dentin of beluga (*Delphinapterus leucas* (Pallas, 1776)) teeth. *PLoS ONE* 13(1): e0190498. <https://doi.org/10.1371/journal.pone.0190498>
- 67. Ortiz, J.D.** Avouris, D., Schiller, S., Luvall, J., Lekki, J., Tokars, R.P., Anderson, R.C., Shuchman, R., Sayers, M., and Becker, R. (2017) Intercomparison of Approaches to the Empirical Line Method for Vicarious Hyperspectral Reflectance Calibration, *Front. Mar. Sci.*, vol. 4, 14 September 2017, <https://doi.org/10.3389/fmars.2017.00296>, 2017
66. Lekki, J., Anderson, R., Avouris, D., Becker, R., Churnside, J., Cline, M., Demers, J., Leshkevich, G., Liou, L., Luvall, J., **Ortiz, J.**, Royce, A., Ruberg, S., Sawtell, R., Sayers, M., Schiller, S., Shuchman, R., Simic, A., Stuart, D., Sullivan, G., Tavernelli, P., Tokars, R., and A. Vander Woude Airborne Hyperspectral Imaging of Monitoring Harmful Algal Blooms in the Great Lakes Region: System Calibration and Validation From Photons to Algae Information: The Processes In-Between, NASA Technical Report, NASA Glenn Research Center, NASA/TM—2017-219071, 2017.
65. Steinman BA, Pompeani DP, Abbott MB, **Ortiz JD**, Stansell ND, Finkenbinder, MS, Mihindikulasooriya LN, and AL Hillman, Oxygen isotope records of Holocene climate variability in the Pacific Northwest, *Quaternary Science Reviews* 142, 40-60, DOI: 10.1016/j.quascirev.2016.04.012, 2016.
64. Ali, KA, **Ortiz, JD**, Bonini, N, Shuman M, and C. Sydow, Application of Aqua MODIS sensor data for estimating Chlorophyll a in the turbid Case 2 waters of Lake Erie using bio-optical models, *GIScience & Remote Sensing*, DOI:10.1080/15481603.2016.1177248 , 2016.

Refereed Publications (Continued)

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- Wilsbacher, M.C., **Ortiz, J.D.**, S. O'Connell, Zheng, Y., Marchitto, T., Carriquiry, J., Dean, W., A. van Geen, Mid-holocene climate reconstruction in the soledad basin using planktic foram assemblages, Geological Society of America Abstracts with Programs, 35(6), p. 192, September 2003.
- Hubbard, J.M, Waugh, D.A., and **J.D. Ortiz**, Application of VIS/nIR spectral reflectance in sourcing and recognition of heat-treated cherts, Geological Society of America Abstracts with Programs, 35(6), p. 399, September 2003.
- Marchitto T., Vicarelli, M., Carriquiry J., Dean W., **Ortiz J.D.**, Zheng, Y., van Geen, A., Ventilation influence on Baja California oxygen minimum zone strength since the LGM: Constraints from benthic foraminiferal Mg/Ca, XVI INQUA Congress Program with Abstracts, Paper No. 18-5, p. 101, Reno Nevada, July 23 - 30, 2003.
- Stefano, C., **Ortiz, J.D.**, and Carlson, E.H. and L. Shiozawa, Clay Mineral Identification by Diffuse Spectral Reflectance, GSA North-Central Section, 37th Annual meeting, Abstracts with Programs 35(2), 13-5, (Kansas City, MO), Geological Society of America, 2003.
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Abstracts (Continued)

- Ortiz, J.D.**, Quaternary Marine Productivity Variations off Baja California, American Quaternary Association, 17th Biennial Meeting, (AMQUA 2002), Program and Abstracts, (Ed. D.R. Yesner), University of Alaska, Anchorage, p. 105-107, 2002.
- Ortiz, J.D.**, and O'Connell, S., Toward a non-linear grayscale calibration method, in Image analysis, Sediments and Paleoenvironments, Nov 8-10th, (Conveners: P. Francus, R. Bradley, and J. Thurow), Program and Abstracts, University of Massachusetts, Amherst, p. 20, 2001.
- O'Connell, S., **Ortiz, J.D.**, vanGeen, A., and Zheng, Y., Rapid changes in organic carbon preservation in sediments from coastal Baja California are linked to global climatic changes, Geo-Odyssey, GSA Annual meeting Abstracts with Programs 33(6), A-159, (Boston, MA), Geological Society of America, 2001.
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- Ortiz, J.D.**, Marchitto, T.M., Cariquiry, T.M., Zheng, Y., Do Millennial scale carbonate and organic carbon cycles in Late Pleistocene sediments off Baja California reflect production or preservation?, EOS Trans. AGU, 82(20), Spring Meet. Suppl., Abstract OS41A-10, S226, 2001.
- Marchitto, T.M., Cariquiry, J., **Ortiz, J.D.**, and van Geen, A., Uvigerina, from laminated sediments may record bottom water nutrient levels, EOS Trans. AGU, 82(20), Spring Meet. Suppl., Abstract OS41A-12, S227, 2001.
- deMenocal, P.B., J. Adkins, **Ortiz, J.D.**, T. Guilderson, Millennial-Scale Sea-Surface Temperature Variability During The Last Interglacial and its Abrupt Termination, EOS 81(48), F675, American Geophysical Union, Fall Meeting Supplement, 2000.
- Wolf-Gladrow, D.A., Zeebe, R.E., Sanyal, A., and **Ortiz, J.D.**, A theoretical study of the kinetics of the boric acid, - borate equilibrium in seawater, EOS 81(48), F620, American Geophysical Union, Fall Meeting Supplement, 2000.
- Passow, M., **Ortiz, J.D.**, Witter, D., Small, C., Visbeck, M., Lerner-Lam, A., Lotti Bone, R., Anderson, O.R., Sambrotto, R., Armbruster, J., and Griffin, K., Earth2Class: What research scientists can share with classroom teachers (Extended Abstract), in Abstract Volume, Tenth Symposium on Education, American Meteorological Society Annual Meeting, Albuquerque, NM, 2001.
- Ortiz, J.D.**, O'Connell, S., van Geen A and Melville '99 Shipboard Scientific Party, Deep sea sediments off Baja California reflect Greenland ice core climate cycles, Summit 2000 GSA Annual meeting Abstracts with Programs (Reno, NV) Geological Society of America, P-101, 2000.
- O'Connell, S. and **J.D. Ortiz**, Hot times in the city: Urban heat island exercise for students studying climate change, Summit 2000 GSA Annual meeting Abstracts with Programs (Reno, NV) Geological Society of America, 2000.
- Farmer, C, Kaplan, A., deMenocal, P.B., and **J.D. Ortiz**, Towards a joint faunal-isotopic transfer function for reconstructing past changes in tropical upper-ocean thermal structure. *Eos*, 80(46), F531, American Geophysical Union, Fall Meeting Supplement, 1999.

Abstracts (Continued)

- Adkins, J., deMenocal, P.B., and **J.D. Ortiz**, Rapid variability in eolian accumulation rate and sediment focusing off North Africa (ODP Site 658). *Eos*, 80(46), F531, American Geophysical Union, Fall Meeting Supplement, 1999.
- Passow, M., Witter, D., **Ortiz, J.D.**, Newton, R., Lotti Bond, R., and M. Visbeck, (Extended Abstract) What can classroom teachers learn from research scientists? A Maury Project experience. Ninth Symposium on Education, American Meteorological Society Annual Meeting, 1999.
- O'Connell, S., **Ortiz, J.D.**, Ranganathan, J., and J. McManus, Generating a grayscale time-series record from Ocean Drilling Program cores for classroom use, GSA 1999 Annual meeting Abstracts with Programs (Denver, CO) Geological Society of America, 1999.
- O'Connell, S., Venherm, C., Raymo, M.E., Ganley, K. and **J.D. Ortiz**, Mid-Pleistocene sediment dynamics and paleoceanography at Feni Drift, ODP Site 980, *Eos*, 80(17), S169, American Geophysical Union, Spring Meeting Supplement, 1999.
- Ortiz, J.D.**, Mix, A.C., Wheeler, P.A. and R.M. Key, An estimate of the anthropogenic offset of oceanic $\delta^{13}\text{C}_{\text{DIC}}$ based on the ventilation of the California Current at 42°N, IUGG99 Abstract Volume, Birmingham, UK, International Union of Geodesy and Geophysics, A181, 1999.
- Ortiz, J.D.**, Application of non-invasive sedimentological methods to sediments from western pacific marginal basins, in Conference on Marine Environments: Past Present and Future Symposium Vol. (Jan., 26-28, 1999, Kaohsiung, Taiwan, R.O.C), 1999.
- deMenocal, P.B., **Ortiz, J.D.**, and M. Sarnthein, Holocene variations in subtropical Atlantic sea-surface temperatures: links to the North Atlantic, PAGES Conference, London, 1998.
- Jansen, E., Fronval, T., Kleiven, H., Channell, J.E., **Ortiz, J.D.**, Solheim, A., T. Dokken, A continuous Record of Northern Hemisphere Glaciation from ODP Leg 162, *Eos*, 78(46), F353, American Geophysical Union, Fall Meeting Supplement, 1997.
- Lynch-Stieglitz, J., **Ortiz, J.D.**, and D.H. Sandweiss, The global fingerprint of early Holocene climate, *Eos*, 78(46), F375, American Geophysical Union, Fall Meeting Supplement, 1997.
- Ranganathan, Jai V., O'Connell, S. **Ortiz, J.D.**, and J. McManus, An improved grayscale analysis method for estimating calcium carbonate content in deep-sea cores, GSA 1997 Annual meeting, Abstracts with Programs - Geological Society of America, 29(6), Meeting: Oct. 20-23, 1997, Salt Lake City, UT, 1997.
- Ortiz, J.D.**, and A.C. Mix, Environmental control of oxygen and carbon isotopic disequilibria in asymbiotic planktic foraminifera, *Eos*, 77(46), F334, American Geophysical Union, Fall Meeting Supplement, 1996.
- Kohfeld, K.E., **Ortiz, J.D.**, and R.F. Anderson, Temperature-dependent carbon isotope disequilibrium explains low $\delta^{13}\text{C}$ of polar planktonic foraminifera across the Antarctic Polar Front, *Eos*, 77(17), S160, American Geophysical Union, Spring Meeting Supplement, 1996.

Abstracts (Continued)

- Harris, S.E., Mix, A.C., **Ortiz, J.D.**, and D.C. Lund, Terrigenous and biogenic marinesediment variability: A new high-resolution view from reflectance spectroscopy. 30th International Geological Congress, (Beijing, China, 4-14 August, 1996), Abstract Vol. 2, p.217, 1996.
- Doose, H., **Ortiz, J.D.**, Prah, F.G., Suess, E., UK'37 temperature record in the California current system; a comparison of the modern and the last glacial maximum, Terra Abstracts. Vol. 7, Abst. Suppl. 1., p. 220. Oxford: Blackwell Scientific Publications, 1995.
- Ortiz, J.D.**, Mix, A.C., and S. Hostetler, Comparison of planktic Foraminiferal faunas from mid-latitude sediment traps with core top and Last Glacial Maximum faunas, *Eos* 75(44) 392, Fall Meeting Supplement, 1994.
- Ortiz, J.D.**, Mix, A.C., and R.W. Collier, Planktic foraminifers and plankton biomass in the California Current at 42°N, September 1990, 73(23), 310, American Geophysical Union, Fall Meeting Supplement, 1992.
- Ortiz, J.D.**, Mix, A.C., and R.W. Collier, Planktic foraminifers in MOCNESS tows from the California Current during September, 1990, in ICP IV Abstract Volume, Sarnthein, M., Thiede, J. and Zahn, R. (Eds.), GEOMAR Report 15, Kiel, 1992.
- Ortiz, J.D.**, and A.C. Mix, The spatial distribution and seasonal succession of modern Foraminifera in the California Current off Oregon, *Eos* 71(43), 1352, American Geophysical Union, Fall Meeting Supplement, 1990.
- Ortiz, J.D.**, and A.C. Mix, The spatial and temporal distribution of foraminiferal assemblages in the California Current off Oregon: Response to upwelling and seasonal forcing, in Evolution of upwelling systems since the early Miocene (Abstract volume), Summerhays, C.P., Prell, W., and Emeis, K.C., (Eds.), London, 1990.

Honors and Awards

- Kent State University President's Faculty Excellence Award, 2020.
- Kent State University Outstanding Research and Scholarship Award, 2019.
- Fellow, Geological Society of America, 2017.
- NASA Group Achievement Award, Lake Erie Aerial Hyperspectral CyanoHAB Monitoring Team, 2015.
- Nominee, Kent State University Diversity Trailblazer Award, 2014.
- Semi-Finalist, Alliance for Water Future, Water Quality Innovation Award, 2013.
- NSF Highlight on Darby et al., *Nature Geoscience*, *Advanced Online Publication*: 11/11/2012, (doi: 10.1038/NGEO1629), 2012.
- NSF Highlight on Marchitto et al., *Science*, 330, 1378-1381, DOI: 10.1126/science.1194887, 2010.
- Best Departmental Field Trip Award, West Virginia Stratigraphy Field Trip, 2010
- Appointed to the Ohio Geology Advisor Committee by Governor Ted Strickland, providing advice to the Director of the Ohio Geological Survey, 2009-2012.
- NSF Highlight on Marchitto et al., *Science* 316 (5830), 1456. [DOI: 10.1126/science.1138679] 2007.

Honors and Awards (Continued)

- Science Magazine Perspective piece by R. Keeling, ScienceExpress, / www.sciencexpress.org / 10 May 2007 / Page 2/ 10.1126/science.1142326 for Marchitto et al, Science, / www.sciencexpress.org / 10 May 2007 / Page 5 / 10.1126/science.1138679
- Mentoring Excellence Award, KSU Graduate Student Senate, 2007.
- Outstanding Teaching Award, KSU Student Disability Services/Ability Unlimited, 2005.
- Science Magazine Editor's Choice Citation for: **Ortiz**, et al, Geology, 32(6), 521-524, 2004.
- Promoted to full member, Sigma XI, 2003
- Nominee, KSU College of Arts and Sciences Student Advisory Council Distinguished Teacher Award, 2003.
- Nominee, Department of Geology Glenn Frank Teaching Award, 2001.
- American Geophysical Union Editors' Citation: Excellence in Refereeing for Paleoceanography, 1998.

Invited Talks (26)

- 2016 NASA GRC Airborne Hyperspectral Observation of Harmful Algal Blooms Data Meeting, *2016 KSU Lake Erie Field work update: Developments in Spectral Deconvolution*, Monday Dec. 19 – Tuesday Dec. 20, Lake Erie Center, Oregon, Ohio
- 3rd Coastal Ocean Color Imager (COCI) Users and Science Team Meeting, *Application of visible derivative spectroscopy to the Coastal Ocean Color Imager (COCI)*, Ottawa, CA, November 29-30, 2016.
- 2016 Ocean Optics Meeting, Spatial and spectral inter-comparison of CyanoHAB signatures in Lake Erie and Sandusky Bay using multi-spectral and hyperspectral remote sensing instruments, Ocean Optics XXIII October 23–28, 2016, Victoria, BC, Canada, 2016.
- 2016 HyspIRI Town Hall at Ocean Optics Meeting, Lake Erie NASA GRC Aerial Hyperspectral CyanoHAB Monitoring Collaboration, Ocean Optics XXIII October 23–28, 2016, Victoria, BC, Canada, 2016.
- 2016 Oregon Lakes Association Conference, *What's in the Lake? Management implications for using visible remote sensing to sort things out*, Columbia River Gorge Discovery Center and Museum, Oct 14-16, The Dalles, OR, 2016
- 2016 Great Lakes HABs Collaboratory Webinar Series: HABs Bloom Monitoring & Forecasting Webinar, *HAB Detection, mapping and warning network: Sandusky Bay*, Aug 11, 2016.
- 2016 Ocean Sciences Meeting, Differentiation of cyanophyte, algal and suspended sediment signatures in the 2015 CyanoHAB in Sandusky Bay, Lake Erie (Abstract #92546), Feb 21-26, 2016, New Orleans, LA, 2016.
- 6th Annual HyspIRI Data Product Symposium and Aquatic Forum, An empirical, mirror-based reflectance calibration method coupled with hyperspectral image decomposition, June 1, to Jun 3, 2016, NASA Goddard Space Flight Center, Greenbelt, MD, 2016.

Invited Talks (Continued)

- Ohio Environmental Health Association 70th Annual Educational Conference, Remote Sensing Monitoring of CyanoHAB Composition & Toxicity in Lake Erie, April 19 and April 20, 2016, Doubletree Hotel, Worthington, Ohio, 2016
- 10th National Monitoring Conference, NWQMA, *Cyanophyte and algal composition of the 2015 CyanoHAB Bloom in Sandusky Bay, Lake Erie*, Tampa Bay, FL, May 2016.
- 2015 NASA Lake Erie Field Campaign Data Meeting, *Vicarious calibration and visible derivative spectroscopy to estimate the composition of the 2015 CyanoHAB in Sandusky Bay, Lake Erie*, Lake Erie Center, Toledo OH, 2015
- 2015 NASA HypIRI Science and Applications Workshop, *Vicarious calibration and visible derivative spectroscopy to estimate the composition of the 2015 CyanoHAB in Sandusky Bay, Lake Erie*, 13-15 October 2015 (Presented by collaborator Jeff Luvall).
- 2015 IAGLR meeting, *Airborne Hyperspectral remote sensing of Harmful Algal Blooms in Western Lake Erie*, Burlington VT, May 2015 (For collaborator John Lekki).
- 2015 IAGLR meeting, *An estimate of the composition of the 2014 Lake Erie CyanoHAB by VNIR derivative spectroscopy*, Burlington VT, May 2015.
- 2015 NASA Headquarters Lake Erie HAB Briefing, *Algal Identification by Spectral Decomposition of Hyperspectral data during the 2014 Lake Erie Field Campaign*, Washing DC, 2015
- 2014 NASA HAB Campaign Data Coordination Meeting, *A Tale of two Cyanophytes: Microcystis and Planktothrix in Maumee and Sandusky Bays*, G. Bullerjahn and **J.D. Ortiz**, Lake Erie Center, Toledo OH, 2015.
- 2014 NASA HAB Campaign Data Coordination Meeting, *Summer 2014 CyanHAB field work: Kent State University ASD FieldSpec Spectroradiometer data*, Lake Erie Center, Toledo OH, 2015.
- 2014 NASA HypIRI Science Meeting, *Hyperspectral Visible Derivative Spectroscopy for compositional analysis of CPAs in aquatic systems*, CalTech, Pasadena CA, 2014.
- 2014 NASA HypIRI Product Symposium, *Decomposition of Hyperspectral data for use in Case 2 Environments*, NASA Goddard Space Flight Center, MD, 2014
- Second annual Water Research Symposium at Kent State University, "Water Infrastructure and Rebounding Cities", *Recent developments in phytoplankton identification by hyperspectral remote sensing*, October, 31st, 2014.
- 43rd International Arctic Workshop 2013, UMass Amherst, *Reconciliation of Physical Oceanographic Theory and Paleooceanographic Data: The Role of The Bering Strait, Southern Ocean Winds and the Atlantic Meridional Circulation*, 2013.
- Third International IMAGES/PAGES Workshop of Western Pacific Paleoceanography, Kaohsiung, Taiwan, *The impact of the Southern Ocean winds and global fresh water fluxes on the flow through Bering Strait and the Atlantic Meridional overturning circulation during the Holocene*, 2013.
- AGU Chapman Conference on the Agulhas System and its Role in Changing Ocean Circulation, Climate, and Marine Ecosystems, Western Cape, South Africa, *An Indirect estimate of the impact of the Agulhas leakage on the Atlantic Meridional Overturning Circulation during the Holocene*, 2012 (Contributed talk).

Invited Talks (Continued)

Ocean Sciences meeting, Session PA33A, Deciphering the paleoceanographic connection between the North Pacific and Arctic Ocean using non-invasive measurement techniques, 2010.

17th Biennial Meeting, American Quaternary Association, Anchorage Alaska, *Quaternary Marine Productivity Variations off Baja California*, 2002.

Fourth International Congress of Paleoceanographers (ICP-VI), Lisbon, Portugal, Non-invasive sediment monitoring methods: Current and future tools for high-resolution climate studies, 1998.

Teaching Experience

- GEOL 6/83067, *Carbonate Rocks*
- GEOL 4/57024, *Environmental Core and Well Logging*
- GEOL 21080, *Honors Oceanography* (Team taught)
- GEOL 4/54074, *Paleoceanography*
- GEOL 4/5/72035, *Scientific Methods*
- GEOL 4/50095, *Special Themes in Geology: Light Isotope Geochemistry*
- GEOL 4/50095, *Special Themes in Geology: Marine Processes*
- GEOL 21080, *Oceanography*
- GEOL 4/54070, *Sedimentology and Stratigraphy*
- GEOL 4/5/72030 and GEOG 4/5/79230 *Remote Sensing*

Mentoring Experience

KSU Postdoctoral Advisees (Four)

- Dr. Dulcinea, Avouris, 2018-2021, Kent State University, Department of Geology
- Dr. Sushma Parab, 2012-2015, Kent State University, Department of Geology
- Dr. Liang Yi, 2011-2012, now at National Academy of Sciences, People's Republic of China
- Dr. Katrin Monecke, 2007-2008, now at Wellesley College Dept. of Geosciences

Current KSU Graduate Students

- Scarlett Henson, HW Hoover Foundation-funded M.S. student
- Edgar Ferguson, NASA-funded M.S. student
- Kyle Carey, Department-funded M.S. student
- Amber Huston, Department-funded M.S. student

Doctoral Dissertations Directed (Ten)

- Mudiyansele, Kalpani Ratnayake, 2020, *A multi-proxy approach to reconstruction of Holocene climate change: Evidence from Lake Erie sedimentary archives.*
- Olaoye, Israel, 2020, *Water Quality modeling of the Old Woman Creek Watershed, Ohio, under the influence of climate change to year 2100.*

Doctoral Dissertations Directed (Continued)

- Avouris, Dulcinea, 2018, *Keeping an eye on lake Erie: Using remote sensing to identify characteristics of harmful algal blooms*, KSU Ph.D. Dissertation, Kent, OH 200 p. (NASA-funded Ph.D. student).
- Bonini, Nick, 2016, *Assessing the Variability of Phytoplankton Assemblages in Old Woman Creek, Ohio*, KSU Ph.D. Dissertation, Kent, OH 168 p. (NSF-funded Ph.D. student).
- Mihidukulasooriya, Lorita Nivanthi, 2014, *A multi-proxy reconstruction of paleolimnology and paleoclimatic variables using authigenic lake carbonates from Cleland Lake, British Columbia* KSU Ph.D. Dissertation, Kent, OH, 186 p. (NSF-funded Ph.D. student).
- Siriwardana, Chandawimal H.E.R. "Siri", 2014, *Characterization of Paleoclimate and Marine Processes Associated with Holocene Glacial Sedimentation on the Chukchi Margin, Arctic Ocean*, KSU Ph.D. Dissertation, Kent, OH, 171 p. (NSF-funded Ph.D. student).
- Nwaodua, Emmanuel "Chuks", 2013, *Last Deglacial Arctic to Pacific Transgressions via the Bering Strait: Implications for Climate, Meltwater Source, Ecosystems and Southern Ocean Wind Strength*, KSU Ph.D. Dissertation, Kent, OH, 182 p. (NSF-funded Ph.D. student).
- Ali, Khalid Adem, 2011, *Prediction of Water Quality Parameters from VIR Spectral Radiometry: Using Lake Erie as a Natural Laboratory for Analysis of Case 2 Waters*, KSU Ph.D. Dissertation, Kent, OH, 264 p.
- Ranasinghage, Pradeep Nalaka, 2010, *Holocene Coastal Development in Southeastern-Eastern Sri Lanka: Paleo-depositional Environments and Paleo-coastal Hazards*, KSU Ph.D. Dissertation, Kent, OH, 437p. (GSA fellowship awardee)
- Wijekoon, Nishanthi, 2007, *Spatial and temporal variability of surface cover in an estuarine ecosystem from satellite imagery and field observations*, KSU Ph.D. Dissertation, Kent, OH, 181p. (NOAA-funded, NERR, Ph.D. Fellow)

Masters Theses Directed (Twelve)

- Judice, Taylor, 2019, *Detecting color-producing pigments in the Indian River Lagoon by remote sensing*, KSU Geology MS Thesis, Kent, OH, 120p.
- Zheng, Fangyu, 2017, *Holocene environmental evolution in the Yellow River Delta*, KSU Geology MS Thesis, Kent, OH, 131p.
- Brenner, Alan, 2014, *Determination of Baffin Bay Sediment Composition Variability and Provenance*, KSU Geology MS Thesis, Kent, OH, 99p.
- Bonini, Nick, 2013, *Comparison of VNIR derivative and visible fluorescence spectroscopy methods for pigment estimation in an estuarine ecosystem: Old Woman Creek, Huron, Ohio*, KSU Geology MS Thesis, Kent, OH, 162p.
- Harrison, Jeffery, 2013, *Correlation of Late Holocene sedimentation in the Western Arctic Ocean with an Atmospheric temperature proxy record from a Glacial Lake in the Brooks Range, Alaska*, KSU Geology MS Thesis, Kent, OH, 117p.
- Bloxon, Julie, 2012, *Geophysical characterization of the porosity distribution within the Clinton formation, Ashtabula County, Ohio*, KSU Geology MS Thesis, Kent, OH, 96p. (Self- and partial NSF funded student)
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Masters Theses Directed (Continued)

- Siriwardana, C.H.E.R, 2011, *Paleoclimatic Characterization of Arctic Ocean sediment around the Northwind Ridge using X-Ray Fluorescence and Visible Near Infrared*, KSU Geology MS Thesis, Kent, OH, 96p. (NSF-funded M.S. student)
- Mehrotra, Nivedita, 2011, *Reconstruction of Holocene Paleoclimate Based on Benthic Foraminiferal Assemblages from Soledad Basin*, KSU Geology MS Thesis, Kent, OH, 83p.
- Woodward, Stephen, 2009, *Principle Component Analysis of Sediment Deposited in the Village of Titiana from the Solomon Islands Tsunami of April 2, 2007*, KSU Geology MS Thesis, Kent, OH, 55p.
- Vlack, Yvette, 2008, *A Diffuse Spectral Reflectance Library of Clay Minerals and Clay Mixtures within the VIS/NIR Bands*, KSU Geology MS Thesis, Kent, OH, 89p. (NSF GK-12 funded MS student)
- Balogun, Akindede, 2007, *High resolution paleoclimate reconstruction of the Rose Run formation of Eastern Ohio using diffuse spectral reflectance*, KSU Geology MS Thesis, Kent, OH, 68p.
- Wilsbacher, Matthew, 2007, *Reconstructing Past Climate of the Soledad Basin from Planktonic Foraminiferal Faunal Assemblages*, KSU Geology MS Thesis, Kent, OH, 77p. (Partial NSF-funded student).

Senior Honors Theses Directed (Three)

- Schlaerth, Hannah, 2018, *Remote Sensing of Water Quality Parameters Influencing Coral Reef Health, U.S. Virgin Islands*, KSU Senior Honors Thesis, Kent, OH, 71p.
- Cope, Natalie, 2009, *Reconstruction of a Paleoclimate using Diffuse Spectral Reflectance*, KSU Senior Honors Thesis, Kent, OH, 73p.
- Yurco, Lyanne, 2007, *Glacial-Interglacial grain size and color reflectance variations on the Northwind Ridge, Chukchi Sea: a regional study of Arctic Climate in the Late Pleistocene*, KSU Senior Honors Thesis, Kent, OH, 50p.

KSU Undergraduate Student Researchers

- Alex Rosul, KSU Honors Geology undergraduate
- Nathan Manning, KSU Honors Geology undergraduate, OSGC Scholar
- Hannah Schlaerth, KSU Honors Geology undergraduate, OSGC Scholar
- Nina Ward, KSU Biotechnology undergraduate, NASA-funded student worker
- Mikala Coury, KSU Geology undergraduate, Volunteer
- Xiangming Zhao, KSU Geology undergraduate, Volunteer
- Shannon Hunter, KSU Geology undergraduate, NSF S-STEM Scholar
- Kristin Slodysko, UW Public Health undergrad, NSF REU Scholar
- Karli Hollister, KSU Biological Sciences undergraduate, McNair Scholar
- Sean Hunter, KSU Geology undergraduate, Volunteer
- Megan Court, KSU Geology undergraduate, Student Worker
- Jessica Dorfman, KSU Geology undergraduate, Student Worker
- Lindsey Brenizer, KSU Geology undergraduate, Student Worker
- Jamael Sadallah, KSU Geology undergraduate, Student Worker
- Daniel Peacock, KSU Geology undergraduate, Summer field assistant
- Renee Crain, KSU Geology undergraduate, Student Worker
- Michael Farinacci, KSU Geology undergraduate, Student Worker

KSU Undergraduate Students Researchers (Continued)

-
- Robin Green, KSU Geology undergraduate, Summer field assistant
- Bethany Lavins, Bucknell University, Summer Lab assistant
- Nate Fela, KSU Geology undergraduate and NSF S-STEM Scholar and Undergraduate Research Scholar recipient
- Lonnie Mills, KSU Geology undergraduate and NSF S-STEM scholar
- Michael Duff, KSU Geology undergraduate, Undergraduate Research Scholar recipient
- Chelsea Orsbourn, KSU Geology Honors undergraduate
- Lyanne Yurco, KSU Geology Honors undergraduate
- Allie Sherwood, KSU Geology Honors undergraduate
- Kathleen Wilson, WRRRI REU Student
- Drew Feucht, WRRRI REU Student (co-mentor with M. Munro-Stasiuk)
- Sarah Reagan Palm, WRRRI REU Student (co-mentor with D. Witter)
- Chris Stefano, KSU Geology undergraduate
- Nathan Saraceno, KSU Geology undergraduate, Student volunteer
- Christopher Wargo, Honors Independent Study
- Christopher Mauser, Independent Study

Doctoral Committee Service (Twenty-six)

- Tashman, Jessica, in progress, Taphonomic & Phylogenetic Studies of Extinct & Extant Marine Arthropod Cuticle, (Ph.D. Committee member; Feldmann, advisor, Geology).
- Kirk, Johnathan P., 2017, Hydroclimatic variability and contributing mechanisms during the early 21st century drought in the Colorado River Basin, (Graduate Representative Ph.D. Committee member; Schmidlin advisor, Geography).
- Widanagamage, Inoka Hasanthi, 2015, *Stable strontium isotope fractionation ($\Delta^{88/86}\text{Sr}$) in abiotic and microbially mediated barite in modern continental settings*, (Ph.D. Committee member; Griffith advisor, Geology).
- Alnaeli, Saleh, 2015, *A Transformational Approach to Automatically Adapt Source Code for Enhanced Parallelizability* (Ph.D. Committee member; Maletic advisor, Computer Science).
- Ballinger, Thomas, 2015, *A Synoptic Climatological Assessment of the Relationship between Regional Arctic Sea Ice Variability and Climatic Anomalies over North America* (Ph.D. Committee member; Sherridan, advisor, Geography).
- Xinxin, Lv, 2015, *Microbially Mediated Transformation of Dissolved Nitrogen in Aquatic Environments* (Ph.D. Committee member; Mou, advisor, Biological Sciences)
- Alali, Abdulkareem, 2014, *Improved methods for mining software repositories to detect evolutionary couplings*, (Ph.D. Committee member; Maletic advisor, Computer Science).
- Johnston, Gloria, 2014, *Characterization of bacterial communities of riverbank sediments contaminated with polycyclic aromatic hydrocarbons* (Graduate Faculty Representative; Leff, advisor, Biological Sciences).

Doctoral Committee Service (Continued)

- Hui-Juan Pan, Ph.D. student, visiting doctoral scholar from National Taiwan Ocean University, 2013-2014.
- Clevinger, Curtis, 2013, *Nitrification and the contribution of Nitrification to oxygen consumption in Lake Erie* (Ph.D. Committee member; Bade, advisors, Biological Sciences).
- Meqdadi, Omar, 2013, *Automatic Identification of Adaptive Changes from Software Version Histories* (Ph.D. Committee member; Maletic, advisor, Computer Science).
- David Waugh, 2013, *Utility of fossil cuticle morphology applied to the taphonomy and taxonomy of decapod crustaceans* (Ph.D. Committee member; Feldmann, advisor, Geology).
- Frantescu, Adina, 2013, *Comparative Study of the Eocene Fossil Decapod Crustaceans of the North American Atlantic Coast and European Tethyan Provinces* (Ph.D. Committee member; Feldmann, advisor, Geology).
- Frantescu, Ovidiu, 2013, *Systematics, Paleobiogeography, and paleoecology of Cretaceous decapod fauna, from Northeastern Texas* (Ph.D. Committee member; Feldmann, advisor, Geology).
- Hoblos, Jalaa, 2013, *Access Disparity Modeling and fairness provisioning in multi-hop wireless networks*, (Ph.D. Committee member; Peyravi, advisor, Computer Science)
- Assareh, Amin, 2012, *Improving diversity in classification and regression tree ensembles by manipulating the hypothesis space traversal of each individual* (Ph.D. Committee member; Volkert advisor, Computer Science).
- Gautam, Tej, 2012, *An investigation of disintegration behavior of mudrocks based on laboratory and field tests*, (Ph.D. Committee member; Shakoor advisor, Geology)
- Klompaker, Adiel, 2012, *Mesozoic decapod diversity with an emphasis on the early Cretaceous (Albian) of Spain*, (Ph.D. Committee member; Feldman advisor, Geology).
- Feinstein, Larry, 2012, *Microbial functional activity and diversity patterns at multiple spatial scales*, (Ph.D. Graduate Representative and Moderator; Blackwood advisor, Biological Sciences).
- Johnstone, Jennifer, 2012, *Reinterpreting Welshness: Sounds and choral membership in cultural identity* (Ph.D. Graduate Representative and Moderator; wa Mukuna Advisor, Musicology-Ethnomusicology).
- Hollinger, David, 2011, *Crop condition and yield prediction at the field scale with geospatial and artificial neural network applications, Kent State University Geography*, (Ph.D. Outside Committee member; Munro-Stasiuk advisor, Geography).
- Dalqamouni, Ahmad, 2010, *Development of a landslide hazard rating system for selected counties in Northeast Ohio, Kent State University Geology*, (Ph.D. Committee member; Shakoor advisor, Geology).
- Maen, Hammad, 2010, *Supporting Code-Design Consistency During Software Evolution Kent State University Computer Science*, (Ph.D. Outside Committee member; Maletic advisor, Computer Science).

Doctoral Committee Service (Continued)

- Maldonado, Anita, 2008, *Negotiating a sense of place: a study of Hispanic faculty in predominantly white institutions*, Kent State University Education, (Ph.Ed. Outside Committee member; Michael advisor, TLCS).
- Jovanelly, T. J., 2006, *Tsunami Origin for an ~1100 year old enigmatic sand sheet in Lynch Cove, Puget Sound, Washington*, Kent State University Geology (Ph.D. Committee member; Moore Advisor, Geology)
- Santmire, Judy, 2005, *Bacterial communities in a Northeast Ohio stream: effects of substrate size, environmental features and temporal changes*, Kent State University Biological Sciences (Ph.D. Moderator; Leff Advisor, Biological Sciences).

Masters Committee Service (Nine)

- Engle, Kevin, 2015, *A Late Glacial-Early Holocene Paleoclimate Signal from the Ostracode Record of Twin Ponds, Vermont* (M.S. Committee member; Smith advisor, Geology).
- Reilly, Darren, 2014, *Identification of Local Ground Water Pollution in Northeastern Pennsylvania: Marcellus Flow-back or Not?* (M.S. Committee member; Jefferson and Singer co- advisors, Geology).
- Onur, Emine, 2014, *Predicting the permeability of sandy soils from grain size distributions*, (M.S. Committee member; Shakoor advisor, Geology).
- Wells, Kathryn, 2011, *Paleoecology of Beringian Lacustrine deposits as indicated by Northern Hemisphere Ostracode Biogeography*, (M.S. Committee member, Smith Advisor, Geology).
- Maharjan, Madan, 2011, *Interpretation of domestic water well production data as a tool for detection of transmissive bedrock fractured zones under cover of the glacial formations in Geauga County, OH*, Kent State University Geology, (M.S. Committee member; Eckstein advisor, Geology).
- Razzano, Mandy, 2011, *Monitoring algal production in Akron water supply reservoirs in Northeast Ohio using satellite imagery*, Kent State University Geology (M.S. Committee member; Witter advisor, Geology).
- Nowicki, Lisa, 2011, *Engineering Geology considerations for realignment of interstate 70/76 across the landslide at new Baltimore, Somerset county, SW Pennsylvania*, Kent State University Geology (M.S. Committee member; Shakoor advisor, Geology).
- Weghorst, P. L. 2008, *MODIS Algorithm Assessment and Principal Component Analysis of Chlorophyll Concentration in Lake Erie*, Kent State University Geology (M.S. Committee member; Witter advisor, Geology).
- Hubbard, Michael, 2006, *Soapstone vessels in the Ohio River Valley and determining their source of origin using visible/near-infrared reflectance spectrometry*, Kent State University Anthropology (M.S. Committee member, Seeman Advisor, Anthropology).

Mentoring Experience, Prior Institutions

Undergraduate Advisees

- Co-Mentor to Jeff DeViscio (Wesleyan), Senior Undergraduate Honors thesis: *Decadal-scale climate variability in the Northeast Pacific Oxygen Minimum Zone: Evidence from carbonate and organic carbon records*, 2001.
- LDEO Research Experience for Undergraduates (REU), Co-mentor to Jeff DeViscio (Wesleyan) *Centennial to Decadal Variability in Soledad Basin sediments, Baja California*, 2001.
- LDEO Research Experience for Undergraduates (REU), Co-mentor to Adam Goss (Wesleyan). *Elemental ratios of North Atlantic sediments as a climate proxy*, 1999.
- Co-mentor to Ben Raker (Wesleyan) Senior Undergraduate Honors thesis: *True colors of climate change: Spectral Reflectance analysis and the Southern Ocean paleoenvironment during the Mid-Pleistocene Revolution*, 1998-1999.
- Co-Mentor to Jai Ranganathan (Wesleyan) Senior Undergraduate Honors thesis: *Optical methods for determining calcium carbonate concentrations within Ocean Drilling Program sediment cores*, 1996-1997.

Informal Education Experience

- KSU Earth Day Keynote lecture Which future? Projected climate change in the coming decades, April, 17, 2019.
- Portage County Sierra Club, *Potential climate change impacts in Ohio*, Oct 20, 2015.
- Kent State University Honors College Secret Cellar Speakers Series, *Climate Change: Global and Local impacts*, Aug 5, 2015.
- Panel Discussion Participant, *How Global Warming Affects Us and What we can do to save ourselves*, UU Church and Kent Environmental Council, Sept 21, 2015.
- Deep Horizons, Virtual World Conference *Water Quality: Harmful Algal Blooms (HABs) in Lake Erie*, Keynote speaker, Ohio Aerospace Institute Virtual Distance Learning Academy, 2015
- Science Friday at Old Woman Creek "New methods for monitoring Harmful Algal Blooms in water bodies - insights from reflectance measurements at Old Woman Creek and Beyond", Old Woman Creek NOAA/NERR Public lecture series, Huron, OH, 2014.
- Judge, Undergraduate Research Posters, 2012 Ocean Sciences Meeting, Salt Lake, UT, 2012.
- Ohio Sea Grant Research Spotlight Interview, *Lake Erie from Above... Way Above* by C. Doerkes, Twinline volume 23, no. 4, Fall/Winter Edition, 2011. (<http://ohioseagrant.osu.edu/documents/twineline/v33i4.pdf>)
- Northeast Ohio Chapter American Meteorological Society Public lecture, *Potential Local Impacts of Global Climate Change*, 2012.
- Aurora Conservation Council's Moebius Nature Center Public lecture series, *Life in the Greenhouse: Climate Change*, 2012
- Aurora Conservation Council's Moebius Nature Center Public lecture series, *Living in the Greenhouse*, 2008.

Informal Education Experience (Continued)

- Northeastern Ohio Geological Society Public Lecture, *Quaternary Arctic Paleooceanographic Circulations Changes*, 2008.
- Geauga Parks District Public lecture, "[Engage the Ice Age](#)" Speakers Series, "[Ice Ages and Abrupt Climate Change: A Marine Perspective](#)", 2005.
- Consultant to NSF Geodiversity Education Grant, *Connecting with the River: Geoscience Research and Education for Hartford, CT* (PI's S. O'Connell, J. J. Morrison, J. Osbourn), 2001-2003.
Scientific Partner, *Signals of Spring* (<http://www.signalsofspring.com>), 2000-2004.
- Leadership team member, Earth2Class (<http://www.earth2class.org>), 2000-2001.
- Distance learning based, continuing education program, serving middle and high school Earth Science teachers in the Northeastern United States.
- Co-Organizer, Project STEF (Science Teachers Ensure the Future) Workshop, 2000 NSF funded teacher enhancement and mentoring workshop designed to improve the quality and quantity of earth science teachers in New York Metro Area.
- Saturday Workshops for Educators, *CO₂ Studies and climate changes*, 1999.
Lectured on climate and climate change as part of a K-12 teacher training program conducted in cooperation with: Westchester Section of STANYS, Eastern Section of the National Association of Geoscience Teachers (NAGT) and the American Meteorological Society Maury Project Peer trainers program (In conjunction with Dr. Michael Passow, White Plains Middle School).
- LDEO Open House, *CO₂: Where does it come from? Where does it go?*, 1998.
Demonstration for K-12 students and parents monitoring effects of photosynthesis, respiration and fossil fuel combustion on [CO₂] in an enclosed space using a nondispersive IR CO₂ sensor (In conjunction with Drs. Lex van Geen and Kim Kastens).
- LDEO Open House, Core-Lab Exhibit: *Planktic Foraminifers!*, 1996, 1997.
Interactive presentation on taxonomy and ecology of planktic foraminifers for K-12 students and parents (In conjunction with Rusty Lotti, LDEO Corelab Curator).

Invited Meeting and Workshop Participation (32 total)

- NASA Surface Biology and Geology Mission Concept Community Workshop Planning meeting (Participation paid by NASA JPL), Washington, DC, May 2019
- 2019 International Ocean Colour Science Meeting, (Invited Workshop Speaker) Busan, South Korea, 9-12 April 2019.
- IAGL2019, Large Lakes Research: Connecting People and Ideas (talk presented by co-author D. Avouris), 2019.
- NSF CyanoHAB workshop, Global Solutions to Regional Problems, Bowling Green, OH, 2015.
- NSF US-Swedish I/B Odin Arctic Research Collaboration meeting, Stockholm, SE, 2015.
- NASA Great Lakes Workshop Series on Remote Sensing of water quality, NOAA GLERL Ann Arbor Michigan, 2014.
- Breakout Session leader, NASA Great Lakes Workshop Series on Remote Sensing of water quality, Ohio Aerospace Institute, Cleveland OH, 2014.
- Expert Witness Fellow, NSF-funded, 3rd Expert Witness Training Academy, William Mitchell College of Law, St. Paul, MN, 2013.

Invited Meeting and Workshop Participation (Continued)

- Participant, NSF-funded, Second *R/V Sikuliaq* Science Workshop, 2012.
- Participant, NSF-funded Beaufort Sea Drilling workshop, Kananaskis, CA, 2012.
- Co-Chair, Beaufort Sea Working Group, IODP workshop, “Overcoming barriers to Arctic Ocean Drilling: the site survey Challenge”, Copenhagen, Denmark, 2011.
- Participant, NSF-funded, 1st Expert Witness Training Academy, William Mitchell College of Law, St. Paul, MN, 2011.
- Participant, NSF-funded, First *R/V Sikuliaq* Science Workshop, 2011.
- Convener, Session T7, Theory and Application in Cenozoic Paleoclimate Studies, 2011 Northeast/North Central GSA meeting, Pittsburgh, PA, 2011.
- Guest Lecturer Integrated Ocean Drilling Program Summer School 2010 – Canada, University of Quebec at Rimouski, 2010.
- Participant, NSF Post-ESH Paleoclimate Planning Workshop, 2007.
- Participant, NSF Graduate K-12 Fellowship Program Annual Meeting, 2007.
- Member, COREWALL Steering Committee, and participant, JOI sponsored COREWALL Planning Meeting, 2006.
- Co-Convener, Session T1, Monitoring Environmental Properties of Large Lakes, North Central Section GSA 40th Annual meeting, 20-21 April 2006, University of Akron, Akron, Ohio.
- Co-Convener, Session T23, Undergraduate Research Poster Session, North Central Section GSA 40th Annual meeting, 20-21 April 2006, University of Akron, Akron, Ohio.
- Participant, Digital Library for Earth System Education (DLESE) Data Services Workshop, 2004.
- Speaker, “Constructivist Activities in Large Class Settings”, Transforming University Teaching in Mathematics and Science NEOCEX Conference, KSU, April 28, 2004.
- Participant, NSF-ATM/IMAGES workshop on Image analysis, Sediments and Paleoenvironments, Conveners: P. Francus, R. Bradley, and J. Thurow, University of Massachusetts, Amherst, 2001.
- Participant, NSF workshop on Collaboratives for Excellence in Teacher Preparation (CETP), March, 2001.
- Co-Chair, IMAGES Western Pacific Margins (WEPAMA) Workshop on Paleooceanography of western Pacific marginal basins, (Taipei, Taiwan, R.O.C.), Feb, 2001.
- Participant, “Experiments in Active Learning”, Keck Foundation Undergraduate Teaching Workshop focusing on data rich teaching strategies, Aug., 2000.
- Section leader, CORE/MATE Workshop on Future Trends for Marine Technicians and Technology in the Academic Workplace, Seattle, Washington, September, 1999.
- Co-Convener, Stable Isotopes and Trace Substances: Their Use in Oceanography and Climate Research on Various Time Scales (IUGG 99), Birmingham UK, July, 1999.
- Co-Secretary, IMAGES Western Pacific Margins (WEPAMA) Working Group, (Kaohsiung, Taiwan, R.O.C.), International working group formulated by IMAGES to evaluate and implement giant piston coring sites and objectives for the *Marion Dufrense* in the Western Pacific, January 27-28, 1999.
- Session Rapporteur, Climate Forcing on Short Timescales (External & Internal Mechanisms), Session 07 of the Conference on Multiple Platform Exploration (COMPLEX, Vancouver, BC), May, 1999.

Invited Meeting and Workshop Participation (Continued)

- Co-Convener, NOAA/CORC Southern Ocean Ventilation Workshop: Assessing Southern Ocean Ventilation Power at Present and during the Last Glacial Maximum, June, 1998.
- ICTP Conference on Warm World Climates, (Trieste, Italy), Organizer Dr. G. Philander (Princeton), Presentation (with J. Lynch-Stieglitz; L-DEO): *A synthesis of the oceanic response during the Hypsithermal*, 1997.
- Participant, NSF Workshop, Working Group on LGM Oceanic SST, Organizers: Drs. W. Prell (Brown), A. Mix (OSU), 1997.

Service to the University

- 6th Environmental Science and Design Research Symposium, Ad Hoc Committee Chair, 2018-2019. Organized planning committee that raised \$15K in external founding for total project funding of \$25K to conduct Symposium “Complexities of Environmental Legacies” and associated Art Show, “The Hidden Cost” featuring the aerial photographic art of J Henry Fair: <https://www.kent.edu/ESDRI-symposium>
- Member, Dynamic Education and Engagement of Diverse Students (DEEDS) Committee and DEEDS Academic Success subcommittee, University Level Initiatives, 2016-
- Member, Women in STEM committee, 2013-
- Member, University Diversity Action Committee (UDAC), 2012-
- Judge, 29th Annual Graduate Research Symposium, 2014.
- Member, 1st Annual Undergraduate Research Symposium Organizing Committee, 2014.
- Member, Provost’s *Ad Hoc* Committee on Undergraduate Research 2013-2014.
- Member, Student Compensation Evaluation Committee, 2013-2014.
- Provost’s Faculty Associate for Diversity, Equity, and Inclusion, 2012-2014
- Member, Academic Strategic Planning Committee, 2012-2013
- Co-Chair, Kent State University Climate Study, 2012.
- Keynote Speaker, “Aspira 2010”, Hispanic undergraduate recruitment program, KSU Admissions, 2010.
- Member, Director of Sponsored Programs Search Committee, 2010.
- Member, Ad hoc Graduate School Evaluation Committee, 2009.
- Member, Ad hoc Kent Curriculum Implementation Committee, 2009-2010.
- Keynote Speaker, “Aspira 2009”, Hispanic undergraduate recruitment Program, KSU Admissions, 2009.
- Co-moderator, College of Education, Health and Human Services / Faculty Professional Development Center Summer Exploratorium Session on Undergraduate Research, 2008.
- Member, Ad Hoc Committee to consider a University Graduate Council, 2008.
- Moderator, President’s Summer Academy Workshop on Undergraduate Research, 2008.
- Member, Provost’s 21st-Century Mission Statement Stakeholders Working Group 2008. (Commendations for 2008 and 2009).
- Presenter, KSU Faculty Professional Development Center Workshop, New Faculty Institute, sessions on “Dynamic Learning and Teaching”, and “Scholarship Creative Arts, Research: Making Connections”, 2008.

Service to the University (Continued)

- Session Leader, KSU Faculty Professional Development Center Workshop, "Excellence in Honors", 2008.
- Co-chair, AQIP Undergraduate Research Action Committee, 2007.
- Honors College Dean Search Committee, 2007-8.
- Panel Moderator, 22nd Annual KSU Graduate Student Senate Colloquium, 2007.
- Undergraduate Research Advisory Committee, 2007.
- Participant, Summit on Funded Research, 2007.
- Honors College Advisory and Planning Committee, 2004-2006.
- Panel Moderator, 20th Annual Graduate Student Senate Colloquium, 2005.
- Speaker, KSU new faculty orientation program, 2005.
- Member, Kent State University Diversity Advisory Committee, 2002-2004.
- NEOCEX Advisory Board, 2003-2005
- Graduate Recruitment Subcommittee of the KSU Enrollment Planning Steering Committee, 2003-2004.
- KSU Undergraduate Research Working Group, 2003-2004.

Service to the College

- Member, Arts and Sciences Graduate Council Member, (while Acting Grad Coordinator Fall 2019)
- Member, Computer Science Department Internal Review Committee, 2018
- Member, Arts and Sciences *Ad Hoc* Committee to develop an Interdisciplinary Environmental Studies Major, 2014-2016
- Member, Arts and Sciences Graduate Council Member, 2012-2016
- Member, Arts and Sciences College Advisor Council, 2014-2015
- Member, Physics Department Internal Review Committee, 2012
- Member, Anthropology Department Internal Review Committee, 2011
- Assistant Director of the Water Resources Research Institute (WRI), Kent State University, 2006-8.
- Member, Arts and Sciences Graduate Council, 2006-2009.
- Member, Geography Department Internal Review Committee, 2005.
- Arts and Sciences Undergraduate Recruitment in the Sciences Working Group, 2004-2005.

Service to the Department

- Assistant Chair, 2017-
- Acting Graduate Coordinator, Fall 2019.
- Ad Hoc Chair, Dept. of Geology Chair reappointment evaluation committee, Spring 2018.
- Member, Curriculum Committee, 2010-2013. 2016-2017.
- Graduate Coordinator, Department of Geology, 2006-2009 and 2012-2016.
- Member, Department of Geology Faculty Advisory Committee, 2002-2004, 2006-2008, 2013-2015.
- Internship and Employment Coordinator, Department of Geology, 2009-2014.
- Chair, Department of Geology, Website and Computer committee, 2002-2005, 2009.
- Member, Department of Geology, Website and Computer Committee, 2002.
- Member, Department of Geology Graduate Studies Committee, 2001-2005.

Service to the Department (Continued)

- Member, Kent State University Department of Education Ad-Hoc Science Education Search Committee, 2003.
- Chair, Department of Geology AQIP committee, 2002.

Service to the Field

- Ohio Space Grant Consortium Campus Representative, 2014-
- Member, Baylor University Department of Geology External Review Committee, 2018.
- Member, National Science Foundation Division of Ocean Sciences Committee of Visitors, 2012.
- Lead Guest Editor, TOS Arctic Oceanography Special Volume, September 2011.
- Sponsorship Co-Chair, 2011 Northeast/North Central GSA meeting, Pittsburgh, PA, 2011.
- Contributor to Andrew Revkin's Dot Earth Blog published by the NY Times online, 2010. ([May 10, 2010](#) | [May 14, 2010](#) | [May 19, 2010](#))
- Member, Integrated Ocean Drilling Program (IODP) United States Implementation Organization (USIO) Scientific Ocean Drilling Vessel (SODV) JOIDES Resolution, Scientific Review Panel, College Station, TX, June, 2008.
- Panel Member for eight NSF Panels including: MGG, ESH, STEMTP, and Robert Noyce Scholarship Programs, 2002-present
- Participant, three NSF ESH Holocene PIs meetings, 2005, 2006, 2007
- AMQUA Councilor for Marine Geoprocesses, 2004-2008.
- Editorial Review Board, Kluwer Encyclopedia of Paleoclimate, 2003-2006.
- One of two reviewers of the ODP MST Legacy Data CD-ROM Format, requested by JOIDES SCIMP with direct response to the JOIDES Director, Dr. Nick Pisias.
- Member, JOIDES Scientific Measurements Panel (SCIMP) Ad-hoc Working Group on Core-Log-Seismic Integration, 2000-2001.
- Member, GEOLOGY Editorial Board, 1998-2001.
- Member, JOIDES Scientific Measurements Panel, (SciMP), 1999-2001.
- Member, four JOIDES, Post-cruise US Science Support Review Panels for ODP Legs, 1996-completion of program.

Interdepartmental and Departmental Seminars (37 total)

Wright State University, Department of Earth and Environmental Science, *What's in the water? Composition studies by remote sensing*, Sept 10, 2019.

Oregon State University Department of Microbiology, *Hyperspectral remote sensing as a tool to monitor CyanoHABs in inland Lakes*, October 6, 2016

Wesleyan University Summer Seminar Series, *Is all that Bloom Toxic? Hyperspectral Remote sensing holds the answer!*, Jun 23, 2016

The Ohio State University, *The 2015 Lake Erie CyanoHAB: Field Constraints and Remote Sensing Observations*, School of Earth Sciences Seminar Series, February 11, 2016

University of Akron, Department of Geosciences Seminar Series, *Toxic Algae in Ohio Waterways*, Sept 17, 2015

Kent State University Department of Chemistry Seminar Series, *Identification of toxic algae in Ohio's waterways by visible derivative spectroscopy*, Oct 8, 2015

Interdepartmental and Departmental Seminars (Continued)

- NASA Glenn Rocket University Working group, *Summer 2014 CyanHAB field work: Kent State University ASD FieldSpec Spectroradiometer data 2015*
- Department of Meteorology Seminar Series, Penn State University, *Solar Variability and the Arctic Oscillation during the Holocene*, 2013
- Department of Geography, Kent State University, *Inter-hemispheric constraints on Holocene variations in the Atlantic Meridional Circulation*, 2011.
- Oregon State University, College of Oceanic and Atmospheric Sciences, *The Bering Strait and the AMOC*, 2010.
- Keynote Speaker, *Physical Aspects of Climate Change in the Arctic Marine Environment*, for Earth Day 2010, "A changing Earth: The facts about global climate change and biodiversity loss", 2010.
- Department of Computer Science, Kent State University, *The Arctic Response to Global Change: Models and data*, 2009.
- Department of Geology, Kent State University, Earth Science Week, *The Arctic Response to Global Change*, 2009.
- University of Akron, *Arctic Paleoceanography from sediment physical properties: Results from the Healy-Oden Transarctic Expedition (HOTRAX)*, 2007.
- University du Montreal á Quebec, GEOTOP, *Non-invasive Paleoceanographic tools for Arctic Climate Change Research: Results from Healy-Oden Transarctic Expedition (HOTRAX)*, 2007.
- University du Montreal á Rimouski, ISMER, *Non-invasive Paleoceanographic tools for Arctic Climate Change Research: Results from Healy-Oden Transarctic Expedition (HOTRAX)*, 2007.
- College of Wooster, Department of Geosciences, *Total Suspended Particulates in Old Woman Creek and the Western Basin of Lake Erie*, 2007.
- Cleveland State University, Department of Biological, Geological and Environmental Sciences, *Total Suspended Particulates in Old Woman Creek and the Western Basin of Lake Erie*, 2007.
- Indiana University-Purdue University Indianapolis (IUPUI), Department of Geology, *Assessing Total Suspended Particulates in Old Woman Creek using Landsat Multispectral Data*, 2006.
- University of Pittsburgh, Department of Geology and Planetary Science, *Holocene and Late Pleistocene Climate Change off Baja California*, 2004.
- College of Wooster, Department of Geology, *Climate studies with a non-destructive tool*, 2003.
- Ohio University, Department of Geological Sciences, *Estimating Marine Export Productivity off Baja California during the last 60,000 years: Paleoclimate Implications*, 2002.
- University of South Carolina, Department of Geological Sciences, *Warm, productive, Interstadial events off Baja California*, 2003.
- Kent State University Department of Geology, *Lithostratigraphy of Giant Piston Cores from the Baja Margin - The MONA Expedition*, 2002.
- Trinity College (Hartford, CT), *Sands of time: Climate lessons from the bottom of the sea*, 2002.

Interdepartmental and Departmental Seminars (Continued)

- Cleveland State University, Department of Biological Geological and Environmental Sciences, *Quaternary marine production cycles with a millennial beat off Baja California*, 2002.
- University of Akron, Department of Geology, *Reflections of the North Atlantic Stadial/Interstadial events as marine organic carbon cycles off Baja California*, 2001.
- Kent State University, Department of Geology, *Millennial scale carbonate and organic carbon cycles in Late Pleistocene sediments off Baja California – Do they reflect production or preservation?* 2001.
- Georgia State University, Department of Geology, *Millennial scale carbonate and organic carbon cycles in Late Pleistocene sediments off Baja California – Do they reflect production or preservation?* 2001.
- University of Illinois, Urbana-Champaign, Department of Geology, *Millennial scale carbonate and organic carbon cycles in Late Pleistocene sediments off Baja California – Do they reflect production or preservation?* 2001.
- University of Wisconsin, Madison, Dept. of Geology & Geophysics, *Environmental reconstruction of the California Current during the Last Glacial Maximum: Constraints from planktic foraminifera and other paleo proxies*, 2001.
- L-DEO Climate Center Workshop on the NE Pacific Oxygen Minimum Zone, *Diffuse spectral reflectance signatures from Melville-99 sediment cores off Baja California*, 2000.
- University of Delaware, College of Marine Studies, *Millennial-scale carbonate variability in North Atlantic deep-sea sediments: Insights from diffuse spectral reflectance measurements*, 1999.
- University of California at Santa Cruz, Earth and Environmental Sciences, *Circulation and productivity in the northern sector of the California Current during the Last Glacial Maximum*, 1999.
- LDEO Physical Oceanography and Geochemistry Seminar Series, *Diffuse spectral reflectance of North Atlantic sediments: Remote sensing at the formation level reveals sub-Milankovitch scale variability*, 1999.
- Wesleyan University, Department of Earth and Environmental Sciences, *Variable climate inferred from reflectance: North Atlantic sediment secrets*, 1998.
- University of Florida, Department of Geology, *Spectral reflectance of North Atlantic drift sediments: High resolution proxy mineralogy measurements from ODP Leg 162*, 1997.
- Brown University, Geosciences Department, *Depth habitats and temperature-dependent carbon isotopic disequilibrium in asymbiotic planktic foraminifera*, 1996.
- Woods Hole Oceanographic Institution, Geology and Geophysics, *Planktonic Foraminifers in the California Current*, 1993.

Professional Affiliations

- The Geological Society of America (GSA) American Meteorological Society (AMS)
American Geophysical Union (AGU) The Oceanography Society (TOS)
Northeast Ohio Geological Society (NOGS) Sigma Xi (Scientific research honor society)
American Quaternary Association (AMQUA)