

CURRICULUM VITAE

Diana Ortega-Ariza

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EDUCATION

Ph.D. – Geology, University of Kansas-Lawrence	2016
M.S. – Geology, University of Puerto Rico-Mayaguez	2009
B.S. – Geology, National University of Colombia-Bogota	2005

PROFESSIONAL EXPERIENCE

Academic

Courtesy Assistant Professor: 2021-Present, Department of Geology, University of Kansas

Co-Principal Investigator: 2020-Present, Kansas Interdisciplinary Carbonates Consortium (KICC), Department of Geology, University of Kansas

Assistant Scientist: 2019-Present, Energy Research Section, Kansas Geological Survey (KGS), University of Kansas

Assistant Professor of Geology: 2016-2019, Earth and Space Sciences Department, Columbus State University-Columbus, GA

Graduate Research Assistant: September 2015-May 2016, Puerto Rico and the Dominican Republic dissertation research, KICC, University of Kansas

Graduate Research Assistant: August 2009-September 2015, Puerto Rico and the Dominican Republic dissertation research and Mississippian Kansas core project, Stratigraphic Research Section, KGS, University of Kansas

Thin-Section Laboratory Technician: January-December 2008, Department of Geology, University of Puerto Rico-Mayaguez

Graduate Teaching Assistant: August 2006-December 2008, Laboratory instruction for Sedimentary Environments and Lithogenesis, Stratigraphy, and Geology for Civil Engineers, Department of Geology, University of Puerto Rico-Mayaguez

Graduate Geology Staff: May 2006-December 2008, AFAMaC (Alliance for the Strengthening and Advancement of Math and Sciences) K-12 science teachers and students Outreach Program, Puerto Rico Department of Education-University of Puerto Rico-Mayaguez

Undergraduate Research Assistant: January 2004-April 2007, Palynology, Quaternary lacustrine projects, Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam and Natural Science Institute-National University of Colombia-Bogota

Undergraduate Research Assistant: June-August 2005, Quetame Massif, NE Colombia sedimentology, stratigraphy, and structural project, Department of Geology, National University of Colombia-Bogota

Undergraduate Teaching Assistant: August-December 2004, Climatology and Colombian Climate Diversity course, Department of Geology, National University of Colombia-Bogota

Industry

Geoscience Intern: June-August 2012, Miocene isolated carbonate platform subsurface project, Energy Technology Company-Earth Sciences Department, Chevron Technology Company, Houston

Geologist Assistant: January-August 2005, gold prospect in Colombia project, Colombo-Canadian Mining Company

Geoscience Intern: July-December 2004, Colombian basins prospect appraisals, Empesa & Ecopetrol, Bogota

AWARDS, GRANTS & SCHOLARSHIPS

Awards

Tower Day Columbus State University 2019 Undergraduate Research and Creative Endeavors 1st Place Student Poster Presentation (J.T. Bass and D. Ortega-Ariza)

Department of Geology, University of Kansas 2016 Ph.D. Graduate Student Haworth Award for Excellence in Research and Service

Kansas Geological Survey-University of Kansas 2015 William W. Hambleton Award for Outstanding Contributions to Research

Kansas Geological Survey-University of Kansas 2011 Lee C. & Darcy Gerhard Award for Excellence in Field Research

Research Grants & Scholarships

Department of Geology-University of Kansas 2014, 2011, 2010 Graduate summer field research scholarships (Lamb, Encana Energy, Stelbar Oil Corporation)

AWG 2014, 2011, 2010 Osage Chapter, Chevron graduate student research, University of Kansas

AAPG Foundation 2013, 2010 Grants-in-Aid Program, R.K. Goldhammer and S. Takken Memorial Grants

ExxonMobil 2012, 2010 Global Geoscience Recruiting Grants

KICC Research Grant 2011

KGS Scholarship 2011

IAS Grant Scheme Award 2011

SEPM Gulf Coast Section-Ed Picou Fellowship Grant 2011 for Graduate Studies in Earth Science

GSA 2011 Graduate Student Research Grant

Graduate Studies Research Fund-University of Kansas 2011

SEPM 2010 Student Assistance Grants-Gerald M. Friedman (Sedimentary Geology)

University of Puerto Rico-ExxonMobil Minority Scholarship 2009

Travel Grants & Scholarships

Columbus State University-Faculty Travel Grant 2016 for Dolomieu Conference on Carbonate Platforms and Dolomite, Selva di Val Gardena, Italy

NSF-STEPPE 2015 Travel grant for STRATI – Congress on Stratigraphy, Graz, Austria
Department of Geology-University of Kansas 2015 Lamb Travel Scholarship for STRATI – Congress on Stratigraphy, Graz, Austria
SACNAS Travel Scholarship 2011 for SACNAS National Conference, San Jose, CA
University of Puerto Rico-ExxonMobil Minority 2009 Travel Grant for northern and southern Puerto Rico field trip
University of Puerto Rico-ExxonMobil Minority 2008 Travel Grant for Las Negras, SE Spain field trip
University of Puerto Rico-ExxonMobil Minority 2006 Travel Grant for Mona Island, Puerto Rico field trip
Honor tuition waiver 2001-2005 National University of Colombia-Bogota

PRESENT MAJOR SCIENTIFIC INTEREST

Outcrop and subsurface studies in sedimentology and sequence stratigraphy of carbonate and siliciclastic systems that integrate biostratigraphy, petrography, geophysics, and geochemical data to understand global, regional, and local controls such as sea-level fluctuations, paleoceanography, climate, and paleotopography on depositional environment, sequence stratigraphy, and reservoir character.

SUPPLEMENTAL INFORMATION

PROFESSIONAL SOCIETY AFFILIATIONS

Member, American Association of Petroleum Geologists (AAPG)
Member, Geological Society of America (GSA)
Member, Society of Exploration Geophysicists (SEG)
Member, Society for Sedimentary Geology (SEPM)
Member, International Association of Sedimentologists (IAS)
Member, Association for Women Geoscientists (AWG)
Member, American Institute of Professional Geologists (AIPG)
Member, Sigma Xi, The Scientific Research Society
Member, Division of Environmental Geosciences of AAPG (DEG)
Member, Energy Minerals Division of AAPG (EMD)
Member, University of Kansas-Geology Club Sigma Gamma Epsilon

INTERNAL AND EXTERNAL COMMITTEE SERVICE

Member 2022, Faculty Women and Allies Leadership network (FWALN), University of Kansas
Panelist 2022, NSF Reviewer of grant applications
Member 2021-Present, Stratigraphic Nomenclature, Kansas Geological Survey
Member 2021, Assistant Research Professor in Stratigraphy Search, Kansas Geological Survey
Member 2021, NSF URGE (Unlearning Racism in Geoscience)-Kansas Geology Pod, Kansas Geological Survey
Member 2021-Present, Diversity, Equity, Inclusion and Belonging (DEIB), Kansas Geological Survey
Affiliate Member 2020-2023, PhD External Committee, University of Alabama

Member 2020, Outreach Undergraduate Student Assistant Search, Kansas Geological Survey

Member 2017-2019, Quality Enhancement Plan (QEP) Advisory Board Committee, Columbus State University

Coordinator 2018-2019, Master of Science Program-Geoscience track, Earth and Space Sciences Department, Columbus State University

Organizer 2018-2019, Earth and Space Sciences Department Seminar Series, Columbus State University

Member 2018-2019, Sustainability Committee Member, Columbus State University

Faculty Supervisor 2018-2019, Student Chapter, American Institute of Professional Geologists (AIPG), Earth and Space Sciences Department, Columbus State University

Member 2012, Student Awards Committee, Kansas Geological Survey

Coordinator 2012, Graduate Student Host for visiting petroleum company recruiters, Department of Geology, University of Kansas

Member 2010, SEPM Pettijohn Medal Committee

Member 2010, Sedimentology/Stratigraphy Student Representative to the Self Study Committee for internal Department review, Department of Geology, University of Kansas

EDITORSHIPS

Guest Editor, Midcontinent Geoscience, Kansas Geological Survey, 2021-Present

Editorial Board, Abstract Volume Edited, **Ortega-Ariza, D.**, Bode-Omoleye, I., Hasiuk, F.J., Mohammadi, S., and Franseen, E.K., 2021, Midcontinent Carbonate Research Virtual Symposium, Extended Abstracts, Kansas Geological Survey Technical Series 24, 55 p.

REVIEWER FOR GRANTING AGENCIES, JOURNALS, AND CONFERENCES

National Science Foundation

SEPM Journal of Sedimentary Research

SEPM Special Publications

Submitted abstracts to 2021 AAPG Annual Meeting

Midcontinent Geoscience, Kansas Geological Survey

Geological Quarterly, Polish Geological Institute - National Research Institute

STUDENT SEMINARS, COURSES AND FIELD TRIPS CONDUCTED

University of Kansas – Department of Geology

Instructor for Geology 891 – Special Studies in Geology, Fall Semester, 2021

Instructor for Geology 891 – Special Studies in Geology, Summer Semester, 2021

Instructor for Geology 891 – Special Studies in Geology, Spring Semester, 2021

Columbus State University – Earth and Space Sciences Department

Instructor for GEOL 3265 – Stratigraphy and Basin Analysis, Spring Semester, 2019

Instructor of a 1-day field trips for undergraduate students to Cretaceous strata along the Coastal Plain Fall Line and Providence Canyon in Georgia and Alabama, October-November 2019

Instructor for GEOL 1121 – Physical Geology, Spring Semester, 2019
Instructor for GEOL 4905 – Senior Thesis, Spring Semester, 2019
Instructor for GEOL 6905 – Thesis Research, Spring Semester, 2019
Instructor for Geology 3235 – Sedimentary Geology, Fall Semester, 2018
Co-leader of a 3-day field trip for graduate and undergraduate students to Paleozoic strata in the Cloud Canyon and surrounding areas in Georgia, October 2018
Instructor for GEOL 1121 – Physical Geology, Fall Semester, 2018
Instructor for GEOL 4175 – Undergraduate Research, Fall Semester, 2018
Instructor for GEOL 6905 – Thesis Research, Fall Semester, 2018
Instructor for GEOL 4175 – Undergraduate Research, Spring Semester, 2018
Instructor for GEOL 4795, GEOL6705 – Senior and Graduate Geology Seminar – Sea level in the rock record, Spring Semester, 2018
Co-Instructor for GEOL 6205 – Current Research in Geosciences, Spring Semester, 2018
Instructor for GEOL 5215 – Geomorphology, Spring Semester, 2018
Instructor of a 1-day field trip for graduate and undergraduate students to Cretaceous strata in the Providence Canyon in Georgia, May 2018
Instructor for GEOL 6905 – Thesis Research, Spring Semester, 2018
Instructor for ENVS 5715G-U – Environmental Science Seminar, Spring Semester, 2018
Instructor for Geology 3235 – Sedimentary Geology, Fall Semester, 2017
Co-leader of a 3-day field trip for graduate and undergraduate students to Paleozoic strata in the Cloud Canyon and surrounding areas in Georgia, October 2017
Instructor for GEOL 1121 – Physical Geology, Fall Semester, 2017
Instructor for GEOL 6905 – Thesis Research, Fall Semester, 2017
Instructor for ENVS 5715G-U – Environmental Science Seminar, Fall Semester, 2017
Instructor for GEOL 1121 – Physical Geology, Spring Semester, 2017
Instructor for GEOL 3265, GEOL5555G – Stratigraphy and Basin Analysis, Spring Semester, 2017
Co-leader of a 3-day field trip for graduate and undergraduate students to Paleozoic strata in the Cloud Canyon and surrounding areas in Georgia, April 2017
Instructor of a 1-day field trip for graduate and undergraduate students to Cretaceous strata in the Providence Canyon in Georgia, May 2017
Instructor for ENVS 5715G-U – Environmental Science Seminar, Spring Semester, 2017
Co-Instructor for GEOL 6205 – Current Research in Geosciences, Spring Semester, 2017
Instructor for Geology 3235 – Sedimentary Geology, Fall Semester, 2016
Co-leader of a 3-day field trip for graduate and undergraduate students to Paleozoic strata in the Cloud Canyon and surrounding areas in Georgia, November 2016
Instructor for GEOL 1121 – Physical Geology, Fall Semester, 2016
Instructor for ENVS 5715G-U – Environmental Science Seminar, Fall Semester, 2016

University of Puerto Rico

Co-Instructor for workshop on Evaluating Controls on Carbonate Stratigraphic Sequences: A Field-based Approach, undergraduate and graduate students, June 2011
Co-leader of a 5-day field trip for University of Kansas and University of Puerto Rico-Mayaguez geology graduate and undergraduate students to Cretaceous to Recent carbonate, siliciclastic, and volcanic island arc evolution of Puerto Rico, March 2009

Co-leader of a 1-day field trip for 40 Puerto Rican K-12 science teachers to Oligocene-Miocene carbonate and siliciclastic strata in northern Puerto Rico, AFAMaC outreach program, June 2007

PROFESSIONAL SYMPOSIA AND FIELD TRIPS CONDUCTED

Session Chair – “Modern Technologies Applied to Carbonate Systems: Geologic & Multi-Disciplinary Methods 1”; 2021 International Meeting for Applied Geoscience & Energy (IMAGE) AAPG Annual Meeting, Online Oral, September 28, 2021

Co-convener and co-organizer – Midcontinent Carbonate Research Virtual Symposium, Kansas Geological Survey, September 14-15, 2021

Judge – student posters and presentations, Northcentral-Southcentral GSA Meeting, April 18-20, 2021

Mentor – Roy J. Shlemon Mentor Program in Applied Geoscience, GSA Southeastern Virtual Section Meeting, April 1, 2021

Co-field trip leader – Virtual field trip “An Upper Cretaceous paleodrainage System on the Coastal Plain Unconformity of Alabama-Georgia,” Southeastern Geological Society of America Meeting, 32 participants, March 31, 2021

Judge – middle- and high-school student exhibitions, Columbus Regional Science and Engineering Fair, Columbus Schools District and Columbus State University, February 2017, 2018, 2019

Event Supervisor – middle-school students (create and assess Earth science exams), Regional Science Olympiad, Columbus Schools District and Columbus State University, February 2017, 2018, 2019

Invited participant – International Commission on Stratigraphy-National Science Foundation (ICS-NSF) workshop, Vouchering the Stratigraphic Record, Graz, Austria, July 2015

Invited participant – ConocoPhillips Field trip, Reservoirs and Structures of the Laramide Rockies Petroleum System, Cody, Wyoming, May 2012

Co-instructor of a 3-day field trip for ExxonMobil to outcrop and core facilities with Oligocene-Pliocene carbonate and siliciclastic strata in northern and southern Puerto Rico, February 2009

Invited participant – ExxonMobil Geoscience Recruiting Field Seminar – Bighorn Basin (Geology and Petroleum System), Cody, Wyoming, May 2007

Co-organizer, student volunteer – Colombian Geologic Congress, December 2005

SUPERVISORY EXPERIENCE

GRADUATE STUDENT THESIS & DISSERTATION

William Clark, University of Alabama-Tuscaloosa (**active** Ph.D. External Committee Member). Research Topic: Shallowing/deepening intervals of the Central American Seaway: Defining the timing and environmental impact of the formation of the Isthmus of Panama from the Late Oligocene to Late Pliocene

Angela Torres-Zamora, University of Kansas (**active** – M.S. Student). Research Topic: Controls on deposition and reservoir character of atypical shallow-water tropical carbonate systems: Miocene, Cicuco Field, NW Colombia.

Jasmine Truitt, Columbus State University-Columbus (**active** M.S. External Committee

Member). Research Topic: Using an ancient soil to assess Cretaceous paleotopography and paleoclimate in east central Alabama.

Coral Torres, Columbus State University-Columbus (**active** M.S. External Committee Member). Research Topic: Mapping and dating paleosols of the Coastal Plain Unconformity in eastern central Alabama.

Austin Caughey, Columbus State University-Columbus (M.S. 2019). Research Topic: Sequence stratigraphy of middle-Mississippian carbonates of the southern Appalachians: Tuscumbia Limestone, Tuscumbia, AL.

UNDERGRADUATE INDEPENDENT RESEARCH & SENIOR THESIS

Chance Seckinger, Columbus State University-Columbus (2017-2018). Research Topic: Porosity and Permeability of Miocene (Puerto Rico), Pennsylvanian (Kansas), and Mississippian (Alabama) Carbonate Rocks

James T. Bass, Columbus State University-Columbus (2019, Senior Thesis). Research Topic: Studying Ancient Rocks (~355-335 Million years old): the Fort Payne Chert and Tuscumbia Limestone in the subsurface

Edrick Ramos, University of Puerto Rico-Mayaguez (2009, unofficial advisor). Research Topic: Stratigraphic analysis of the Lares Limestone carbonate sequence exposed on PR10, Utuado, Puerto Rico

Jesuel Soto, University of Puerto Rico-Mayaguez (2009, unofficial advisor). Research Topic: Analysis of the Lares Limestone carbonate sequence exposed on PR111, San Sebastian, Puerto Rico

Alejandra Rodriguez-Delgado, University of Puerto Rico-Mayaguez (2008, unofficial advisor). Research Topic: A comprehensive study on coastline process and sedimentary dynamics, Sardinera Beach, Mona Island, Puerto Rico

UNDERGRADUATE TEACHING ASSISTANT AND PAID STUDENT SUPERVISOR

Teaching Assistants (2016-2019): Supervised two master students per semester for five sections of GEOL1121L Physical Geology Laboratory, Earth and Space Sciences Department, Columbus State University-Columbus

Paid Student Assistants (2011-2014): Supervised student workers who aided in fieldwork to Puerto Rico and the Dominican Republic, lab, and data and sample processing. Students were paid through awarded research grants

FOREIGN LANGUAGES

Native Spanish speaker, French (speaking ability, reading comprehension)

BIBLIOGRAPHY

PEER-REVIEWED PUBLICATIONS (* indicates student)

BOOKS & MANUALS

- Ortega, D.** and Santos, H., 2007, Manual: Terremotos y Tsunamis: Viviendo al Margen de una Placa. AFAMaC Publications, University of Puerto Rico, Mayaguez, PR, 57 p.
- Ortega, D.** and Santos, H., 2006, Manual: Minerales y Rocas. AFAMaC Publications, University of Puerto Rico, Mayaguez, PR, 91 p.
- Ortega, D.** and Santos, H., 2006, Manual: La Geología de Puerto Rico. AFAMaC Publications, University of Puerto Rico, Mayaguez, PR, 36 p.
- Aguilar-Ramos, C., Gonzalez, M.D., **Ortega, D.L.** and Torres, P.A., 2006, Manual: Excel para Maestros. AFAMaC Publications, University of Puerto Rico, Mayaguez, PR, 161 p.

JOURNAL PAPERS

- Ortega-Ariza, D.** and Franseen, E.K., and Boudagher-Fadel, M.K., 2021, Effects of Sea Level and Upwelling on Development of a Miocene Shallow-Water Tropical Carbonate Ramp System, Ponce, Puerto Rico: *Journal of Sedimentary Research*, v.91, p. 1227-1256.
- Barineau, C., and **Ortega-Ariza, D.**, 2021, An Upper Cretaceous paleodrainage system on the Coastal Plain unconformity of Alabama-Georgia, in Florsheim, J., Koeberl, C., McKay, M.P., and Riggs, N., eds., *GSA Section Meeting Guides: Geological Society of America Field Guide* 61, p. 1–26.
- Ortega-Ariza, D.**, Franseen, E.K., Santos-Mercado, H., Ramirez-Martinez, W., and Core-Suárez, E., 2015, Strontium-isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History, *Journal of Geology*, v.123, p. 539-560.
- Abbott, S.S., King, D. J., Leckey, E. H., Muscente, A. D., **Ortega-Ariza, D.**, Poole, C. R., Riedman, L. A, Tang, Q., and Wernette, S. W., 2015, Reflections on Major Themes in Current Stratigraphy by Early Career Scientists and Students, *The Sedimentary Record*, v.13, No. 4, p. 12-14.
- Vélez-Juarbe, J., Martin, T., Macphee, R., and **Ortega-Ariza, D.**, 2014, The Earliest Caribbean Rodents: Oligocene Caviomorphs from Puerto Rico, *Journal of Vertebrate Paleontology* v.34, p. 157-163.
- Ortega-Ariza, D.**, Santos-Mercado, H., Franseen, E.K., and Ramirez-Martinez, W., 2013, Las Calizas de la Costa Norte de Puerto Rico, *EspeleoRevista*, v.9, Puerto Rico, p. 6-12.
- Groot, M.H.M., Bogotá, R.G., Lourens, L.J., Hooghiemstra, H., Vriend, M., Berrio, J.C., Tuenter, E., van der Plicht, J., van Geel, B., Ziegler, M., Weber, S.L., Betancourt, A., Contreras, L., Gaviria, S., Giraldo, C., González, N., Jansen, J.H.F., Konert, M., **Ortega, D.**, Rangel, O., Sarmiento, G., Vandenberghe, J., van der Hammen, T., van der Linden, M. and Westerhoff, W., 2011, Ultra-high Resolution Pollen Record from the Northern Andes Reveals Rapid Shifts in Montane Climates Within the Last Two Glacial Cycles. *Climate of the Past*, v.7, p. 299-316.

EXTENDED ABSTRACTS

- Ortega-Ariza, D.** and Franseen, E.K., 2021, Distribution Patterns of Low-Latitude, Shallow-Water Heterozoan and Photozoan Facies during Mississippian (Osagean-Meramecian) in the Continental US: *in* Midcontinent Carbonate Research Symposium Extended Abstracts, Kansas Geological Survey Technical Series 24, p. 38-41.
- Ortega-Ariza, D.** and Franseen, E.K., 2016, Effects of Sea Level and Upwelling on Development of a Miocene Shallow-Water Tropical Carbonate Ramp System, Ponce, Puerto

- Rico, USA: Abstract Book, Dolomieu Conference on Carbonate Platforms and Dolomite, Talk, Selva di Val Gardena (Italy), October 4-7, p. 113-114.
- Ortega-Ariza, D.** and Franseen, E.K., 2015, Regional Upwelling as a Major Control in Development of a Miocene Heterozoan-dominated Carbonate System in a Tropical Setting, Puerto Rico, Extended Abstract. in: AAPG Annual Convention and Exhibition, Abstracts with Programs, Talk, Denver, CO, Search and Discovery Article #51151, 24 p.
- Franseen, E.K., and **Ortega-Ariza, D.**, 2014, Controls on Mississippian Inner Ramp Heterozoan Carbonate & Biosiliceous Deposits in a Midcontinent Setting: Proceedings of the Houston Geological Society Applied Geoscience Conference “Integrated Approaches to Unconventional Reservoir Assessment and Optimization”, Talk, Houston, TX, February 17-18, p. 45-49.

ABSTRACTS

- *Torres-Zamora, A., **Ortega-Ariza, D.**, Franseen, E.K., Veloza, G., Caycedo, H., Mora, A., 2022, Controls on Deposition and Reservoir Character of the Miocene Cicuco Field, NW Colombia: A Low-latitude Shallow-water Transitional Carbonate System, Online, AAPG International Conference and Exhibition (ICE), Cartagena, Colombia.
- Ortega-Ariza, D.** and Franseen, E.K., 2021, Regional Controls on Shallow-water Heterozoan and Photozoan Facies in a Low-latitude Carbonate Setting, Mississippian (Osagean-Merramecian), Continental U.S. and Implications for Reservoir Character: IMAGE SEG/AAPG Meeting.
- *Torres-Zamora, A., **Ortega-Ariza, D.**, Franseen, E.K., 2021, Controls on Deposition and Reservoir Character of Atypical Shallow-water Tropical Carbonate Systems: Miocene, Cicuco Field, NW Colombia: European Association of Geoscientists and Engineers (EAGE)-Houston Geological Society (HGS) Virtual Conference on Latin America.
- *Torres-Zamora, A., **Ortega-Ariza, D.**, Franseen, E.K., 2021, Controls on Deposition and Reservoir Character of Atypical Shallow-water Tropical Carbonate Systems: Miocene, Cicuco Field, NW Colombia: SACNAS National Diversity in STEM Conference.
- Barineau, C., **Ortega-Ariza, D.**, Torres, C., and Truitt, J., 2021, Finding the ancestral Chattahoochee River: Evidence for a persistent Mesozoic and Cenozoic paleodrainage system in the southern Appalachian Piedmont and Coastal Plain provinces of eastern Georgia and western Alabama, GSA Connects, Portland, OR.
- Schneider, B., Suarez, M., Zipper, S.C., **Ortega-Ariza, D.**, Joyce Seals, L., Jordan, K., McLean, N., Glose, T., Mongovin, D., Ahlert, A., Proulx, M., and Gottberg, A., 2021, Looking forward: URGE action items underway from the KansasGeo pod, GSA Connects, Portland, OR.
- *Torres, C.M., Truitt, J.C., **Ortega-Ariza, D.**, and Barineau, C.I., 2020, 100 Million Year Old Paleodrainage Systems in Western Georgia-Eastern Alabama, Abstract, GSA Abstracts with Programs, 52(2), <https://doi.org/10.1130/abs/2020SE-345439>.
- *Truitt, J.C., Torres, C.M., **Ortega-Ariza, D.**, and Barineau, C.I., 2019, Paleorelief on the Upper Cretaceous Coastal Plain Unconformity in Eastern Alabama and Western Georgia, Abstract. In: GSA Southeastern section, 68th Annual Meeting, Abstracts with Programs, Vol. 51, No. 3, Poster, Charleston, SC.
- *Seckinger, C., and **Ortega-Ariza, D.**, 2019, Porosity and Permeability Trends from Reservoir Analog Miocene (Puerto Rico), Pennsylvanian (Kansas), and Mississippian (Alabama)

- Carbonate Rocks, Abstract. In: GSA Southeastern section, 68th Annual Meeting, Abstracts with Programs, Vol. 51, No. 3, Poster, Charleston, SC.
- Enos, P., **Ortega-Ariza, D.**, and Fairchild, J.M., 2018, Time for Shales to Come in from the Cold? A Midcontinent Example, Abstract. In: New Insights into Carboniferous Cyclothems, The Fourth Biennial Field Conference of the AAPG Mid-Continent Section, Abstracts and Guidebook, Talk, Lincoln, NE, p. 20.
- Enos, P., **Ortega-Ariza, D.**, and Fairchild, J.M., 2018, Channels Incised into Low-Relief-Deltaic Mudrocks of Midcontinent USA, Abstract. In: 20th International Sedimentological Congress, Talk Quebec, Canada.
- *Caughey, A.L. and **Ortega-Ariza, D.**, 2018, Sequence Stratigraphy and Depositional History of Middle-Mississippian Carbonates of the Southern Appalachians, Tusculum, AL, Abstract. In: GSA Southeastern section, 67th Annual Meeting, Abstracts with Programs, Vol. 50, No. 3, Poster, Knoxville, TN.
- Ortega-Ariza, D.** and Franseen, E.K., 2017, Effects of Sea Level and Upwelling on Development of a Miocene Shallow-Water Tropical Carbonate Ramp System, Ponce, Puerto Rico: Sequence Stratigraphy: 36th Annual GCSSEPM Foundation Perkins-Rosen Research Conference - The Future Defined, December 4-5, 2017, Houston, Texas, Program and Abstracts, p. 31.
- Core, E.E., Ramírez, W.R., Santos, H., **Ortega-Ariza, D.**, and Franseen, E.K., 2016, Miocene-Pliocene Heterozoan-Dominated Systems in the Dominican Republic: Analogs for Neogene Reservoirs in the Caribbean, Abstract. AAPG Datapages/Search and Discovery Article #90259, In: AAPG Annual Convention and Exhibition, Poster, Calgary, Alberta, Canada.
- Ortega-Ariza, D.**, Franseen, E.K., Santos-Mercado, H., Ramirez-Martinez, W., and Core-Suárez, E., 2016, Strontium-isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History, XII International Scientific Research Congress, Ministry of Higher Education - Science and Technology (MESCYT), Talk, Santo Domingo, Dominican Republic.
- Ortega-Ariza, D.**, Franseen, E.K., Santos-Mercado, H., Ramirez-Martinez, W., and Core-Suárez, E., 2015, Strontium-isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History, Abstract. In: STRATI - Congress on Stratigraphy, Talk, Graz, Austria. p. 281.
- Core, E.E., Ramirez, W., **Ortega-Ariza, D.**, Santos-Mercado, H., and Franseen, E.K., 2015, Estratigrafía Secuencial del Sistema Mixto de Carbonatos y Siliciclasticos Neogenos en el Parque Nacional Los Haitises, Noreste República Dominicana: In P.F. Gómez-Ramírez, C.M. Rodríguez-Peña and Sixto J. Incháustegui (Eds.) Programa y libro de resúmenes del XI Congreso Internacional de Investigación Científica, Talk, Santo Domingo, República Dominicana, p. 220.
- Ortega-Ariza, D.** and Franseen, E.K., 2013, Evaluating Controls on Miocene Carbonate-Dominated Sequences in Puerto Rico and the Dominican Republic, Abstract. In: Southeastern Section- GSA Annual Meeting, Abstracts with Programs, Poster, San Juan, PR, Vol. 45, No. 2, p. 11.
- Ortega-Ariza, D.** and Franseen, E.K., 2012, Sequence Development of the Late Miocene Mixed Carbonate-Siliciclastic Cercado Formation, NW Dominican Republic, Abstract. In: AAPG Annual Convention and Exhibition, Abstracts with Programs, Poster, Long Beach, CA, Search and Discovery Article #90142.

- Ortega-Ariza, D.** and Franseen, E.K., 2011, Sequence Stratigraphy and Quantitative Relative Sea-Level History for Miocene-Pliocene Ponce Limestone, Puerto Rico, Abstract. In: SACNAS National Conference, Abstracts with Programs, Talk, San Jose, CA, p. 38.
- Ortega-Ariza, D.** and Franseen, E.K., 2011, The Utility of *Kuphus incrassatus* Bivalves for Determining Absolute Ages and Shallow Water Marine Environments in Tertiary Carbonate and Siliciclastic Systems in the Caribbean, In: GSA Annual Meeting, Abstracts with Programs, Poster, Minneapolis, MN, Vol. 43, No. 5, p. 94.
- Ortega-Ariza, D.** and Franseen, E.K., 2011, Evaluating Controls on Carbonate Sequence Development: Middle to Late Miocene Ponce Limestone, Puerto Rico, Abstract. In: AAPG Annual Convention and Exhibition, Abstracts with Program, Poster, Houston, TX, Search and Discovery Article #90124.
- Ortega-Ariza, D.**, Franseen, E.K., Ramirez, W., and Santos, H., 2011, Sequence Stratigraphy and Quantitative Relative Sea-Level History for Miocene-Pliocene Yaque Group, Dominican Republic: VII Congreso Internacional Interdisciplinario de Investigación Científica (VIICIC), Santo Domingo, Dominican Republic.
- Ortega-Ariza, D.** and Franseen, E.K., 2010, New Strontium Isotope Data and Sequence Stratigraphy for Tertiary Carbonate-Dominated Sequences, Puerto Rico, Abstract. In: SACNAS National Conference, Abstracts with Programs, Poster, Anaheim, CA, p. 42.
- Ortega-Ariza, D.**, Santos, H., and Franseen, E.K., 2010, An Emerging Quantified Sequence Stratigraphy and Relative Sea-Level History for Mixed Carbonate and Siliciclastic Tertiary Sequences, Puerto Rico, Abstract. In: AAPG Annual Convention and Exhibition, Abstracts with Program, Poster, New Orleans, LA, Search and Discovery Article #90104.
- Ortega, D.** and Santos, H., 2008, Establishing a High-Resolution Sequence Stratigraphy and Sea Level Curve for the Tertiary Limestone Formations, Puerto Rico, Abstract. In: GSA Annual Meeting, Abstracts with Programs, Poster, Houston, TX, Vol. 40, No. 6, p. 483.

INTERNALLY REVIEWED PUBLICATIONS

EXTENDED ABSTRACTS

- Ortega-Ariza, D.** and Franseen, E.K., 2020, What controls the development of atypical carbonate tropical systems: Examples from Caribbean Miocene reservoir analogs, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium (KICC) Annual Review Virtual Meeting, Talk.
- Ortega-Ariza, D.**, Franseen, E.K., Santos-Mercado, H., Ramirez-Martinez, W., and Core-Suárez, E., 2015, Strontium-Isotope Stratigraphy for Oligocene-Miocene Carbonate Systems in Puerto Rico and the Dominican Republic: Implications for Caribbean Processes Affecting Depositional History, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Talk, Lawrence, KS, p. 97-100.
- Ortega-Ariza, D.** and Franseen, E.K., 2014, Nutrients in the Miocene Caribbean Sea: A Significant Control on Carbonate Systems in the Region?, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Talk, Lawrence, KS, p. 95-98.
- Ortega-Ariza, D.** and Franseen, E.K., 2014, A New Strontium Isotope Stratigraphy for Late Oligocene-Late Miocene Carbonate Systems in Puerto Rico and the Dominican Republic, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Poster, Lawrence, KS, p. 99-102.

- Franseen, E.K., 2013 and **Ortega-Ariza, D.**, 2013, Controls on Mississippian (Osagean) Inner Ramp Heterozoan Carbonate and Biosiliceous Deposits in a Midcontinent Setting, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Talk, Lawrence, KS, p. 16-19.
- Ortega-Ariza, D.** and Franseen, E.K., 2013, Contrasting Records of Deposition for Two Carbonate Systems in the Caribbean: The Role of Depositional Setting, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Talk, Lawrence, KS, p. 26-29.
- Ortega-Ariza, D.** and Franseen, E.K., 2013, Miocene Carbonate Sequences in Puerto Rico and the Dominican Republic: An Update, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Poster, Lawrence, KS, p. 142-145.
- Ortega-Ariza, D.** and Franseen, E.K., 2012, Evaluating Controls on Miocene Carbonate-Dominated Sequences in Puerto Rico and the Dominican Republic: Progress Report, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Talk, Lawrence, KS, p. 33-36.
- Ortega-Ariza, D.** and Franseen, E.K., 2012, The Utility of *Kuphus Incrassatus* Bivalves for Determining Absolute Ages and Shallow Water Marine Environments in Tertiary Carbonate and Siliciclastic Systems in the Caribbean, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Poster, Lawrence, KS, p. 129-132.
- Ortega-Ariza, D.** and Franseen, E.K., 2012, Sequence Development of the Late Miocene Mixed Carbonate-Siliciclastic Cercado Formation, NW Dominican Republic, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Poster, Lawrence, KS, p. 133-136.
- Ortega-Ariza, D.** and Franseen, E.K., 2011, Evaluating Controls on Carbonate Sequence Development: Middle to Late Miocene Ponce Limestone, Puerto Rico, Extended Abstract. In: Kansas Interdisciplinary Carbonate Consortium Annual Review Meeting, Poster, Lawrence, KS, p. 77-82.

ABSTRACTS

- *Bass, J.T. and **Ortega-Ariza, D.**, 2019, Studying Ancient Rocks (~355-335 Million years old): the Fort Payne Chert and Tuscumbia Limestone in the subsurface, Abstract. In: CSU Undergraduate Research and Creative Endeavors, Tower Day Symposium, Poster, Columbus State University, Columbus, GA (Award of Excellence: Best poster presentation Best poster winner).
- *Do, I., Lowery, S., and **Ortega-Ariza, D.**, 2019, Rocks Can Talk: A Study of Our Ancient Environment, Abstract. In: CSU Undergraduate Research and Creative Endeavors, Tower Day Symposium, Poster, Columbus State University, Columbus, GA.
- *Seckinger, C. and **Ortega-Ariza, D.**, 2018, Porosity and Permeability of Miocene (Puerto Rico), Pennsylvanian (Kansas), and Mississippian (Alabama) Carbonate Rocks, Abstract. In: CSU Undergraduate Research and Creative Endeavors, Tower Day Symposium, Poster, Columbus State University, Columbus, GA.
- *Caughey, A., Torres, C. and **Ortega-Ariza, D.**, 2018, Sequence Stratigraphy of Middle-Mississippian Carbonates of the Southern Appalachians: Tuscumbia Limestone, Tuscumbia, AL, Abstract. In: CSU Gregory P. Domin Graduate Research Conference, Poster, Columbus State University, Columbus, GA.

- Ortega-Ariza, D.** and Franseen, E.K., 2012, Sequence Development of the Late Miocene Mixed Carbonate-Siliciclastic Cercado Formation, NW Dominican Republic, Abstract. In: G-Hawk Student Symposium, Poster, Department of Geology, University of Kansas, Lawrence, KS, p. 14-15.
- Ortega-Ariza, D.** and Franseen, E.K., 2011, Sequence Stratigraphy and Quantitative Relative Sea-Level History for Miocene-Pliocene Ponce Limestone, Puerto Rico, Abstract. In: G-Hawk Student Symposium, Poster, Department of Geology, University of Kansas, Lawrence, KS, p. 9.
- Ortega-Ariza, D.**, Santos-Mercado, H., and Franseen, E.K., 2010, New Strontium Isotope Data and Sequence Stratigraphy for Tertiary Carbonate-Dominated Sequences, Puerto Rico, Abstract. In: G-Hawk Student Symposium, Poster, Department of Geology, University of Kansas, Lawrence, KS, p. 14.

EXTERNAL FUNDING

- Kansas Interdisciplinary Carbonate Consortium (KICC) - 2022; Principal Investigator**, with E.K. Franseen; \$38,969.84, year 2. Project: Controls on Deposition and Reservoir Character of Atypical Shallow-water Tropical Carbonate Systems: Miocene, Cicuco Field, NW Colombia.
- Kansas Interdisciplinary Carbonate Consortium (KICC) – 2021; Principal Investigator**, with E.K. Franseen; \$39,805, year 1. Project: Controls on Deposition and Reservoir Character of Atypical Shallow-water Tropical Carbonate Systems: Miocene, Cicuco Field, NW Colombia.
- U.S. Geological Survey STATEMAP Program – 2021; Co-PI** with Smith, J.J., Layzell, A., Hasiuk, F., Ludvigson, G.A., Mandel, R.D., Ishman, S., Oborny, S., Dunham, J.W., Franseen, E., **Ortega-Ariza, D.**, Bode-Omoleye, I., and Mohammadi, S.; \$517,951. Geologic Mapping in Kansas.
- U.S. Department of Energy – 2020-2021; Co-PI**, with Holubnyak, E., Hasiuk, F., Raney, J., Meng, J., Bode-Omoleye, I., **Ortega-Ariza, D.**, Mohammadi, S., Project: Carbon Utilization and Storage Partnership (CUSP) for the Western USA, DE-FE00031837, \$70,000.
- National Science Foundation – 2020; submitted, not funded; Co-PI**, with Hasiuk, F., Bode-Omoleye, I., Franseen, E.K., Mohammadi, S., and **Ortega-Ariza, D.** Project: Meet the Flintstones: What Controls Microporosity in Chert and Cherty Carbonates and Why We Should Care.

INVITED PRESENTATIONS

- GeoScience World**, GSW In Our Customers Shoes Session, November 2021
- Parex Resources**, Puerto Rican Miocene Heterozoan-Limited Photozoan Carbonate Ramp: Architectures, Facies belts, and key bounding surfaces, June 17, July 28, 2021
- Hocol S.A.**, Caribbean Carbonate Research and experience, May 2021
- Parex Resources**, Caribbean Carbonate Research and background experience, February 2021
- AWG Osage Chapter mentorship program**, Department of Geology, University of Kansas, Panel – Geoscientists Career Path for graduate and undergraduate students, October 2020
- GSA Annual Connects Online Meeting**, Spotlight on Careers in Government Day, Professional Geologist, Student Career Panel (GeoCareers Event), October 2020

Department of Geology-University of Kansas, Colloquium, What controls the development of atypical carbonate tropical systems: Examples from Caribbean Miocene reservoir analogs, October 2020

Earth and Space Sciences Department-Columbus State University, Seminar, Strontium-isotope stratigraphy: A useful tool for dating and correlating rocks around the Caribbean, February 2019

Department of Geosciences-Auburn University, Colloquium, Effects of Sea Level and Upwelling on Oligocene-Miocene Shallow-Water Tropical Carbonates in the Caribbean, September 2017

SOTL New Faculty Seminar-Columbus State University, Balancing Students' Academic Needs in a Diverse Earth and Space Sciences Department, May 2017

Earth and Space Sciences Department-Columbus State University, Seminar, Ancient Caribbean Reefs: Study of Miocene Rocks in Puerto Rico and the Dominican Republic, October 2016

AWG-KU Department of Geology, Colloquium, Regional Upwelling as a Major Control in Development of a Miocene Heterozoan-Dominated Carbonate System in a Tropical Setting, Puerto Rico, May 2015

ConocoPhillips Site Visit, Sequence Stratigraphy and Depositional Controls on Ponce Limestone, Puerto Rico, June 2012

AWG Brown Bag, Department of Geology-University of Kansas, Evaluating Controls on Carbonate Sequence Development: Middle to Late Miocene Ponce Limestone, Puerto Rico, March 2011

ExxonMobil Student Scientist Technology Conference, Evaluating Controls on Carbonate Sequence Development: Middle to Late Miocene Ponce Limestone, Puerto Rico, January 2011

Kansas Geological Society Technical Meeting, Reservoir Character of Donovan Field, Russell County, Kansas, February 2010

25th Annual Symposium of the Caribbean Geology, University of Puerto Rico-Mayaguez, Establishing a High-Resolution Sequence Stratigraphy and Sea Level Curve for the Tertiary Limestone Formations, Puerto Rico, May 2009

Schlumberger Site Visit, Establishing a High-Resolution Sequence Stratigraphy and Sea-Level Curve for Tertiary Limestones, Puerto Rico, June 2008

XII SIGMA Student Poster Day, University of Puerto Rico-Mayaguez, Sequence Stratigraphy of the North Coast Limestones of Puerto Rico, May 2007

XI SIGMA Student Poster Day, University of Puerto Rico-Mayaguez, Paleoclimatología de Alta Resolución en la Laguna de Fúquene: Una Aproximación Multiproxi, May 2006