

Dr. Juan Luis Gonzalez

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Education

PhD, Tulane University, 2008

Major: Earth and Environmental Science

MS, Universidad EAFIT, 2001

Major: Earth Sciences

BA, Humboldt State University, 1986

Major: Geology

BS, Humboldt State University, 1986

Major: Oceanography

Employment

Professor, The University of Texas Rio Grande, (2021)

Academic - Post-Secondary

Academic - Post-Secondary, Associate Professor, Earth and Environmental Sciences, The University of Texas Rio Grande Valley, (2015 - 2021)

Academic - Post-Secondary, Assistant Professor, University of Texas Pan American, (2009 - 2015)

Professional

Professional, Postdoctoral Fellow, Department of Earth and Environmental Sciences, Tulane University, (2008 - 2009)

Professional, Research Assistant, Tulane University, (2005 - 2008)

Professional, Research Assistant, University of Illinois at Chicago, (2001 - 2005)

Professional, Research Assistant, Departamento de Geologia, Universidad EAFIT, (1996 - 2000)

Professional, Coastal Geology Group, Geologic Survey of Colombia (INGEOMINAS), (1987 - 1996)

Publications

Books

Juan Gonzalez and Roseann Bacha-Garza and Christopher Miller and Russell Skowronek. Ancient Landscapes of South Texas: At the Nexus of Natural and Cultural History. College Station, Texas: *Texas A & M Press*.

Bobbie Lovett and Juan Gonzalez and Roseann Bacha-Garza and Russell Skowronek. The Native American Peoples of South Texas. Edinburg, TX: *Community Historical Archaeology Project with Schools Program, The University of Texas-Pan American*.

Book Chapters

Russell Skowronek and Edna Alfaro and Margaret Dorsey and Juan Gonzalez and Sonia Hernandez and Maria Lagorio and Bobbie Lovett and John Milford and Kenneth Summy. Re-Discovering the Rio Grande Valley- The Community Historical Archaeology Project with Schools Program and Life-long Education. Brownsville, Texas: *University of Texas Brownsville Press*: 169-189.

Journal Article, Academic Journal

Juan Gonzalez and James Hinthorne and Russell Skowronek and Roseann Bacha-Garza and Christopher Miller and Sarah Fearnley Hardage. Social legacy and geoh heritage significance of the largely overlooked Catahoula Volcanic Ash of South Texas. London: *Geological Society of London, Special Publication 543*. (August) Special Publication 543, <https://doi.org/10.1144/SP543-2022-253>

Roseann Bacha-Garza and Juan Gonzalez and Christopher Miller and Russell Skowronek. From a Tabula Rasa to the Governor's Award for Historic Preservation, How the CHAPS Program brought Archaeology to Deep South Texas. Oakland, California: *The Public Historian*. (November) 44, : 169-189.

Syed Ahmed and Chu-Lin Cheng and Juan Gonzalez and Jihoon Kang and Jungseok Ho and Leslie Soto-Sanchez. Groundwater Vulnerability Assessment of Shallow Aquifer in the South Texas Sand Sheet using a GIS-Based DRASTIC Model. Springer: *Modeling Earth Systems and Environment*.

Torbjorn Tornqvist and Krista Jankowski and Yong-Xiang Li and Juan Gonzalez. Tipping points of Mississippi Delta marshes due to accelerated sea-level rise. Washington DC: *Science Advances*. (May) 6, : 7 pages.

<http://advances.sciencemag.org/content/6/21/eaaz5512>

Brandi Reger and Juan Gonzalez and Russell Skowronek. Lithic Raw Materials in the Lower Rio Grande Valley, South Texas and Northeast Mexico.: *Lithic Technology/ Francis and Taylor Group*. (May) 45, : 1 - 13.

Randolph De La Garza and Juan Gonzalez and Zjixiong Shen. Luminescence chronology of a Mass Grave of Giant Gopher Tortoises (*Gopherus hexagonatus*), Willacy County, TX. San Antonio: *Bulletin of the South Texas Geological Society*. (September) 59, : 20-33.

Marguerite Toscano and Juan Gonzalez and Kevin Whelan. Calibrated density profiles of Caribbean mangrove peat sequences from computed tomography for assessment of peat preservation, compaction, and impacts on sea-level reconstructions.: *Quaternary Research*. (January (1st Quarter/Winter)) 89, : 201-222.

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Juan Gonzalez and James Hinthorne. The Morrosquillo Assemblage Revealed: Provenance and Context of a Refined Group of Ground-edge Stone Tools from the Caribbean Lowlands of Colombia.: *Lithic Technology*. 42, : 1-12.

Thomas Ewing and Juan Gonzalez. The Late Quaternary Rio Grande Delta - A Distinctive, Underappreciated Geologic System.: *Gulf Coast Association of Geological Societies Transactions*. (September) 66, : 169-180.

Juan Gonzalez and James Hinthorne and Russell Skowronek and Thomas Eubanks and Don Kumpe. Characteristics and genesis of El Sauz chert, an important prehistoric lithic resource in south Texas.: *Lithic Technology*. 39, : 1-10.

Juan Gonzalez and Russell Skowronek and Bobbie Lovett. Deflation Troughs, Water and Prehistoric Occupation on the Margins of the South Texas Sand Sheet, Evidence from Hidalgo County, Texas.: *Journal of Texas Archaeology and History*. 1, : 70-93.

Juan Gonzalez and Zhixiong Shen and Barbara Mauz. New constraints on Holocene uplift rates for the Baudo Mountain Range, northwestern Colombia.: *Journal of South American Earth Sciences*. (July (3rd Quarter/Summer)) 52, : 194-202.

Juan Gonzalez and T.E. Törnqvist. A new late Holocene sea level record from the Mississippi Delta: Evidence for a climate/sea level connection?.: *Quaternary Science Reviews*. 28, : 1737-1749.

Juan Gonzalez and T.E. Törnqvist. Coastal Louisiana in Crisis, Subsidence or sea-level rise?.: *Eos*. 85, : 493-498.

Juan Gonzalez and M. Hermelin and O.A. Chaves. Aspectos Geomorphológicos de la avenida torrencial del 31 de Enero de 1994 en la cuenca del Rio Fraile y sus fenómenos asociados.: *Cuadernos de Investigación Universidad EAFIT*.: 17.

T.E. Törnqvist and Juan Gonzalez and L.A. Newsom and K. Van der Borg and A.F.M. De Jong and C.W. Kurnick. Deciphering Holocene sea-level history on the U.S. Gulf Coast: A high-resolution record from the Mississippi Delta.: *Geological Society of America Bulletin*. 116, : 1026-1039.

T.E. Törnqvist and S.J. Bick and Juan Gonzalez. Tracking the sea-level signature of the 8.2 ka cooling event: New constraints from the Mississippi Delta.: *Geophysical Research Letters*. 31,

Juan Gonzalez and Iván Correa. Evidencias de subsidencia cosísmica en el delta del San Juan. En *Geología y Oceanografía del Delta del Río San Juan*.: *Litoral Pacífico Colombiano/Fondo Editorial Universidad EAFIT*.

J.D. Restrepo and B. Kjerfve and I.D. Correa and Juan Gonzalez. Morphodynamics of a high discharge tropical delta, San Juan River, Pacific coast of Colombia.: *Marine Geology*. 192,

T.E. Törnqvist and Juan Gonzalez and L.A. Newsom and K. Van der Borg and A.F.M. De Jong. Reconstructing "background" rates of sea-level rise as a tool for forecasting coastal wetland loss.: *Mississippi Delta: Eos*. 83, : 525, 530-531.

Juan Gonzalez and I.D. Correa. Evidence of Late Holocene Co-seismic Subsidence on the San Juan River Delta Pacific Coast of Colombia.: *Journal of Coastal Research*. 17, : 459-467.

J.O. Martinez and Juan Gonzalez and O. H. Pilkey and W.J. Neal. Barrier Island Evolution on the Subsiding Central Pacific Coast, Colombia, S.A.: *Journal of Coastal Research*. 16, : 663-684.

I.D. Correa and Juan Gonzalez. Coastal Erosion and Village Relocation: a Colombian Case Study.: *Ocean & Coastal Management*. 43,

R. A. Morton and Juan Gonzalez and G.I. Lopez and I.D. Correa. Frequent Nonstorm Washover of Barrier Islands, Pacific Coast of Colombia.: *Journal of Coastal Research*. 16, : 82-87.

J.O. Martinez and Juan Gonzalez. Evolución Histórica de las Islas Barrera del Sector de Buenventura y el Naya.: *Instituto de Investigaciones Marinas y Costeras INVEMAR*. 3, : 72.

J.O. Martinez and Juan Gonzalez and O. H. Pilkey and W.J. Neal. Tropical Barrier Islands of Colombia's Pacific Coast.: *Journal of Coastal Research*. 11, : 432-453.

Others

Juan Gonzalez and Roseann Bacha-Garza and Christopher Miller and Russell Skowronek. Ancient Landscapes of South Texas: Hiding in Plain Sight. Edinburg, TX: *CHAPS Program at the University of Texas Rio Grande Valley*. (September)

J.O. Martinez and Juan Gonzalez and L.C. Marin and J.H. Carvajal. Geomorfologia y Aspectos Erosivos del Litoral Caribe Colombiano.: *Publicación Geologica Especial de INGEOMINAS N 21. Incluye Atlas.*: 55.

J.O. Martinez and Juan Gonzalez and L.C. Marin and J.H. Carvajal. Geomorfologia y Aspectos Erosivos del Litoral Pacifico Colombiano.: *Publicación Geologica Especial de INGEOMINAS N 21. Incluye Atlas.*: 35.

Under Submission

Journal Article, Academic Journal

Christopher Munoz and Juan Gonzalez and Chu-Lin Cheng. Biogeographic controls of *Prosopis glandulosa* and *Quercus virginiana* on the South Texas Sand Sheet, which is the real Phreatophyte.: *Journal of Arid Environments*.

Contracts, Grants and Sponsored Research

Chu-Lin Cheng and Hudson Robert Deyoe and Engil Pereira and Juan Gonzalez and Maria Eugenia Diaz. Grant Families and University Together as a Unit for Research and Education (FUTURE): Connecting Hispanic Families to Geosciences Through Community Informal Learning Network NSF Federal , 314997\$ (October 2021 - October 2024)

Edward Gonzalez-Tennant and Roseann Bacha-Garza and Russell K Skowronek and Juan Luis Gonzalez and Christopher L Miller. Grant Expanding the Ancient Landscapes of South Texas work with 3D Technologies Summerfield G Roberts Foundation Foundation , 15000\$ (February 2023 - February 2024)

Roseann Bacha-Garza and Russell K Skowronek and Juan Luis Gonzalez and Christopher L Miller and Sarah M Fearnley Hardage. Grant Ancient Landscapes of South Texas The Summerlee Foundation of Dallas Foundation , 20000\$ (February 2023 - February 2024)

Edward Gonzalez-Tennant and Juan L Gonzalez. Grant Geoarchaeology of the Rio Grande Lomas University of Texas Rio Grande Valley The University of Texas Rio Grande Valley , 9973\$ (December 2022 - July 2023)

Roseann Bacha-Garza and Christopher L Miller and Russell K Skowronek and Juan L Gonzalez. Grant Ancient Landscapes of South Texas for K-12 Education Summerfield G Roberts Foundation of Dallas Foundation , 14842\$ (November 2021 - February 2023)

Christopher Miller and Juan Gonzalez and Russell Skowronek and Roseann Bacha-Garza. Grant Ancient Landscapes of South Texas Summerfield G Roberts Foundation of Dallas Foundation , 10000\$ (February 2020 - August 2021)

Juan Gonzalez and Russell Skowronek and Christopher Miller and Roseann Bacha-Garza. Grant Ancient Landscapes of South Texas Summerlee Foundation Foundation , 20000\$ (August 2019 - January 2021)

Chu-Lin Cheng and Juan Luis Gonzalez and James JiHoon Kang and Carlos E Cintra and Jude Benavides and Elizabeth Heise. Grant GEOPATHS: Stimulating Hispanic Participation in the Geosciences (SHIP-GEO) National Science Foundation (NSF) Federal , 464958\$ (August 2016 - August 2020)

Sarah Rowe and Juan Luis Gonzalez. Grant Humanities Connections Planning Grant: An Interdisciplinary Public Heritage Curriculum for the Rio Grande Valley National Endowment for the Humanities Federal , 33255\$ (April 2019 - April 2020)

Awards and Honors

Leadership

Award of Merit for the efforts to preserve Texas' cultural and historic resources, to the CHAPS Program . The Texas Historical Commission (May 2016)

Scholarship/Research

Philpott Excellence of Presentation Award. Gulf Coast Association of Geological Societies (September 2017)

Distinguished Service Award "For Outstanding Contributions of Service to Texas Archeology to the CHAPS Program. Texas Archeological Society (October 2015)

Service, Community

Daniel G. Roberts Award for Excellence in Public Historical Archaeology to the CHAPS Program. Society for Historical Archaeology (January 2017)

Chairman's Award for Community Engagement to the CHAPS Program. Texas Historical Commission (July 2016)

Presentations

Juan Luis Gonzalez and Edoardo Davila and Sarah M Fearnley Hardage."Anthropogenically driven sinuosity variations on the channel of the lower Rio Grande, Texas, USA".XXI INQUA Congress, INQUA, Rome, Italy. (July 22, 2023)

Russell K Skowronek and Juan Luis Gonzalez and Roseann Bacha-Garza and Christopher L Miller and Edward Gonzalez-Tennant."The Ancient Landscapes of South Texas Initiative and Augmented Reality: An Immersive Experience in Archaeological Education and Community Engagement".88th Annual Meeting Society for American Archaeology, Society for American Archaeology, Portland, OR. (April 1, 2023)

Juan Luis Gonzalez and Roseann Bacha-Garza and Christopher L Miller and Russell K Skowronek."Ancient Landscapes of South Texas: Hiding in Plain Sight--The Movie".127th Annual Meeting Texas State Historical Association, Texas State Historical Association, El Paso, TX. (March 3, 2023)

Roseann Bacha-Garza and Juan L Gonzalez and Russell K Skowronek and Christopher L Miller and Edward Gonzalez-Tennant."Ancient Landscapes of South Texas at the Nexus of Natural and Cultural History: Showcasing a Positive Landscape Hiding in Plain Sight. ".93rd Texas Archeological Society Annual Meeting, Texas Archaeological Society, Tyler, Texas. (October 22, 2022)

Christopher L Miller and Russell K Skowronek and Juan L Gonzalez and Roseann Bacha-Garza and Edward Gonzalez-Tennant."The Ancient Landscapes of South Texas Initiative and Augmented Reality: An Immersive Experience in Archaeological Education and Community Engagement.".93rd Texas Archeological Society Annual Meeting, Texas Archaeological Society, Tyler, Texas. (October 22, 2022)

Edward Gonzalez-Tennant and Russell K Skowronek and Roseann Bacha-Garza and Juan L Gonzalez and Christopher L Miller."Use of Digital Technologies for the Rapid Documentation of Threatened Cultural Heritage: A Case Study from the Lower Rio Grande Valley".93rd Texas Archeological Society Annual Meeting, Texas Archaeological Society, Tyler, Texas. (October 22, 2022)

Russell K Skowronek and Christopher L Miller and Roseann Bacha-Garza and Juan L Gonzalez."The Ancient Landscapes of South Texas, A GeoHeritage Prototype for the Lower Rio Grande Valley".Geological Society of America South Central Annual Conference, Geological Society of America, McAllen, TX. (March2022)

Edoardo Jair Herebia and Juan Luis Gonzalez and Chu-Lin Cheng and Sarah M Fearnley Hardage and Pushpa Gautam Soti."Anthropogenically induced sinuosity changes on the channel of the lower Rio Grande".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Online - McAllen, Texas. (March 15, 2022)

Paola Granados and August Luna and Juan L Gonzalez and Robin Alan Choudhury and Cheryl Harrison."Analyzing historical temperature and precipitation trends in the Lower Rio Grande Valley, TX".American Geophysical Union Fall Meeting 2021, American Geophysical Union, New Orleans, LA. (December2021)

Juan L Gonzalez and Roseann Bacha-Garza and Russell Skowronek and Sarah M Hardage."The Ancient Landscapes o South Texas, Hidden in Plain Sight".Annual Meeting Geological Society of America, Geological Society of America, Portland, Oregon. (October 12, 2021)

Juan L Gonzalez and Roseann Bacha-Garza and Christopher L Miller and Russell K Skowronek."Lower Rio Grande Valley Projectile Point Types".Geological Society of America Annual Conference, Geological Society of America, Portland, OR. (October 12, 2021)

Juan Gonzalez and Brandi Reger and Sarah M. Hardage and Russell Skowronek." Geoarchaeological Insights on the South Texas Sand Sheet".Geological Society of America 54th South-Central Section meeting, Geological Society of America, Dallas. (March 10, 2020)

Juan Gonzalez and Brandi Reger and Sarah Fearnley Hardage and Russell Skowronek."Dune Migration, paleosols and Projectile Points: New Geoarchaeological Insights on the South Texas Sand Sheet".Geological Society of America South-Central Section Meeting, Geological Society of America, Fort Worth, TX. (March 10, 2020)

Christopher Miller and Juan Luis Gonzalez and Russell K Skowronek and Roseann Bacha-Garza."Ancient Landscapes of South Texas: Community Engagement, Education, Research".Texas Archaeological Society Annual Meeting, Texas Archaeological Society, Amarillo, Texas. (October 12, 2019)

Juan L Gonzalez and Brandi Reger and Sarah Fearnley Hardage and Russell K. Skowronek."Dune migration, paleosols and projectile points: new geoarchaeological insights on the South Texas Sand Sheet".Annual Meeting of the Geological Society of America, Phoenix. (September2019)

Juan Luis Gonzalez and James Roscoe Hinthorne."Polished stone tools from the Caribbean Lowland of Colombia, evidence of an advanced lithic industry and large-scale ecological change".20th INQUA Congress, Dublin. (July 27, 2019)

Juan Gonzalez."Constraining the latitudinal width of forebulge induced subsidence in the Caribbean, a new sea level chronology from the tectonically stable central coast of Colombia".International Conference on Earth Observations and Societal Impacts , Tainan, Taiwan. (June2019)

Juan Gonzalez and Brandi Reger and Sarah Hardage and Russell Skowronek."Projectile points exhumed by dune migration, Implications for human presence and mid-holocene (?) wetter climate in the South Texas Sand Sheet ".Society for American Archaeology 84th Annual Meeting, Society for American Archaeology, Albuquerque, New Mexico. (April 10, 2019)

Brandi Reger and Sarah Hardage and Juan Gonzalez."An isolated dine's response to severe drought in Southern Brooks County, Texas".Geologic Society of America Joint 53rd South-Central Section Meeting, Geological Society of America, Manhattan, Kansas. (March 27, 2019)

Juan Luis Gonzalez and Randolph Dela Garza."The Raymondville Fluvial System: A Sedimentary Unit With An Identity Crisis".Geologic Society of America Joint 53rd South-Central Section Meeting, Geological Society of America, Manhattan Kansas. (March 27, 2019)

Marcelo Saavedra and Juan Luis Gonzalez."Mineralogical and textural characterization of eolian sands on the South Texas Sand Sheet".Geologic Society of America Joint 53rd South-Central Section Meeting, Geological Society of America, Manhattan Kansas. (March 25, 2019)

Christopher Joaquín Munoz and Juan Luis Gonzalez and Chu-Lin Cheng."The role of sand thickness and paleotopography on phreatophyte and non-phreatophyte species distribution along a north-south transect of the South Texas Sand Sheet".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Manhattan, KS. (March 24, 2019)

Chu-Lin Cheng and Juan Luis Gonzalez and James JiHoon Kang and Carlos E Cintra and Jude Benavides and Elizabeth Heise and James Roscoe Hinthorne and Engil Isadora Pujol Pereira Mikita."Increasing Workforce Diversity through "Stimulating Hispanic Participation in the Geosciences" (SHIP-GEO) Program at Rio Grande Valley/South Texas".The Geological Society of America Annual Meeting, Geological Society of America (GSA), Indianapolis, IN. (November 5, 2018)

Brandi Reger and Juan Luis Gonzalez and James Roscoe Hinthorne and Russell K Skowronek."Lithic Artifacts and Raw Material Selection: an Analysis of Projectile Points from the Rio Grande Valley, South Texas".Texas Archaeological Society 89th Annual Meeting, Texas Archaeological Society , San Antonio, TX. (October2018)

Juan Luis Gonzalez and Brandi Reger and Sarah M Fearnley Hardage and Russell K Skowronek."Exhuming of projectile points by dune migration, implications for human presence and wetter conditions in the South Texas Sand Sheet".Texas Archaeological Society 89th Annual Meeting, Texas Archaeological Society, San Antonio, TX. (October 27, 2018)

Russell K Skowronek and Juan Luis Gonzalez."At the nexus of natural and cultural history ".Master Naturalist Tour of Starr County, Master Naturalists of the RGV, Starr County. (October 21, 2018)

Brandi Reger and Juan Luis Gonzalez and James Roscoe Hinthorne and Russell K Skowronek."pXRF identification of prehistoric lithic artifact material, resource clusters along the lower Rio Grande".83rd Annual meeting of the Society for American Archaeology, Society for American Archaeology, Washington. (April 12, 2018)

Eli Gonzalez and Chu-Lin Cheng and Juan Luis Gonzalez and James JiHoon Kang and Jungseok Ho."Assessing Shallow Groundwater Vulnerability in the South Texas Sand Sheet Using a GIS-Based DRASTIC Model".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Little Rock, AR. (March 12, 2018)

Karen Cantu and Juan Luis Gonzalez."Morphometric analysis of of meander belts in the Rio Grande Delta, a test of human intervention".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Little Rock, AR. (March 12, 2018)

Eli Gonzalez and Chu-Lin Cheng and Juan Luis Gonzalez and Sarah M Fearnley Hardage."Subsurface 3D Model of the South Texas Sand Sheet and its Connection to Regional Hydrologic Systems".Gulf Coast Association of Geological Societies (GCAGS) Annual Convention, Gulf Coast Association of Geological Societies (GCAGS), San Antonio, TX. (November2017)

Juan Luis Gonzalez and Chu-Lin Cheng and James JiHoon Kang and Carlos E Cintra and Jude Benavides and Elizabeth Heise and James Roscoe Hinthorne and Frank Joseph Dirrigl."Stimulating Hispanic Participation in the Geosciences (SHIP-GEO) at Rio Grande Valley in South Texas: Findings from Year One".The Geological Society of America Annual Meeting, Geological Society of America (GSA), Seattle, WA. (October2017)

Juan Luis Gonzalez."How far into the Caribbean does forebulge induced subsidence extend? ♦A NEW SEA LEVEL CHRONOLOGY FROM THE TECTONICALLY STABLE CENTRAL COAST OF COLOMBIA".Geological Society of America Annual Meeting, Geological Society of America, Seattle. (October 25, 2017)

Juan Luis Gonzalez."Behemoth of a Storm - Hurricane Beulah and the Rio Grande Valley".Remebering Hurricane Beuhla in the RGV, UTRGV Edinburg & Brownsville campuses. (September 21, 2017)

Marguerite Toscano and Juan Luis Gonzalez and Kevin Wheelan."Holocene sea level reconstructions from thick mangrove peat deposits: peat properties, GIA models, and implications for future survivability".Society of Wetland Scientists annual meeting, Puerto Rico. (June2017)

Randolph L Delagarza and Juan L Gonzalez." REFINING THE CHRONOLOGY OF A UNIQUE MASS GRAVE OF GIANT TORTOISES WITHIN THE LATE PLEISTOCENE RAYMONDVILLE FLUVIAL SYSTEM, WILLACY COUNTY, TEXAS".51 Annual meeting of the Geologic Society of America, South-Central Section , GSA, San Antonio. (March2017)

Russell K Skowronek and James Roscoe Hinthorne and Juan Luis Gonzalez and Ronald L Bishop."CHARACTERIZATION OF MASSIVE GRAY CHERT OCCURRENCES ALONG STRIKE OF THE LATE OLIGOCENE CATAHOULA VOLCANIC ASH FROM STARR COUNTY TO DUVAL COUNTY, SOUTH TEXAS".Geological Society of America , San Antonio, Texas. (March 14, 2017)

Brandi Reger and James Roscoe Hinthorne and Juan Luis Gonzalez."GEOCHEMICAL AND STATISTICAL ANALYSIS OF PROJECTILE POINTS IN THE RIO GRANDE VALLEY, SOUTH TEXAS".South Central Section, Geological Society of America, Baton Rouge, LA. (March 14, 2017)

Juan Luis Gonzalez."Advances in constructing a compaction-free sea-level chronology for the Caribbean coast of Colombia, a far-field site in South America".International Global Correlation Project 639, Sea-Level Change from Minutes to Millennia, UNESCO, University of Rhode Island, Muskat, Oman. (November2016)

Randolph L Delagarza and Juan Luis Gonzalez."A Rancholabrean Community of Giant Gopher Tortoises (*Gopherus hexagontus*) Within Willacy County, Texas".66 Annual meeting of the Gulf Coast Association of Geological Societies, University of Texas Rio Grande Valley, Corpus Christi. (September2016)

Anita M Chavez and Juan Luis Gonzalez."Constraining the thickness and volume of the South Texas Sand Sheet".66 Annual meeting of the Gulf Coast Association of Geological Societies, GCAGS, Corpus Christi. (September2016)

Thomas E. Ewing and Juan Luis Gonzalez."The Late Quaternary Rio Grande Delta— A Distinctive, Underappreciated Geologic System".66 Annual meeting of the Gulf Coast Association of Geological Societies, GCAGS, Corpus Christi. (September2016)

Elizabeth Heise and Chu-Lin Cheng and Juan Luis Gonzalez and James JiHoon Kang and E. and Jude Benavides and James Roscoe Hinthorne and Frank Joseph Dirrigl."Stimulating Hispanic participation in the Geosciences (SHIP-GEO) at Rio Grande Valley in South Texas".2016 Annual Meeting, Geological Society of America, Geological Society of America, Denver, CO. (September 25, 2016)

Marguerite A. Toscano and Juan Luis Gonzalez and Kevin R. Whelan."Calibrated density profiles of thick mangrove peat sequences from computed tomography: applications for assessment of mangrove paleoecology, peat compaction and sea level reconstructions".Mangrove & Macrobenthos Meeting 4, St. Augustine, FL. (June2016)

Marguerite A. Toscano and Juan Luis Gonzalez and Kevin R. Whelan and Richard W. Peltier."Sea Level reconstructions from thick mangrove peat deposits in Florida, Belize and Panama – age and paleo elevations of basal peats vs. continuous sampling, and relationship to geophysical sea level models".Mangrove & Macrobenthos Meeting 4, St. Augustine, FL. (June2016)

Juan Luis Gonzalez and James Roscoe Hinthorne."El Sauz chert: physical and chemical characterization of a long-used prehistoric lithic resource in south Texas. ".81st Annual meeting , Society for American Archaeology, Orlando, FL. (April2016)

Juan Luis Gonzalez and James Roscoe Hinthorne."Polished edge stone tools from the Gulf of Morrosquillo, Caribbean coast of Colombia, evidence of an advanced lithic industry. ".81st Annual meeting , Soc. for American Archaeology, Orlando, FL. (April2016)

Juan Luis Gonzalez and James R. Hinthorne and Russell K. Skowronek and Ron Bishop."El Sauz chert: physical and chemical characterization of a long-used prehistoric lithic resource in south Texas".81st Annual meeting of the Society for American Archaeology, Orlando, FL. (April2016)

Juan Luis Gonzalez and James R. Hinthorne."Polished edge stone tools from the Gulf of Morrosquillo, Caribbean coast of Colombia, evidence of an advanced lithic industry".81st Annual meeting of the Society for American Archaeology, Orlando, FL. (April2016)

Juan Luis Gonzalez."It's how old? Volcanoes, petrified forests, and the formation of El Sauz Chert: New Insights into the Geologic History of the Rio Grande Valley".Valley Root Series , The McAllen Library, McAllen. (April2016)

Juan Luis Gonzalez and James R. Hinthorne."Precise 27 MA U/Pb zircon ages of the massive Late Oligocene Catahoula Ash exposed at Rio Grande City, Texas".50th Annual Meeting of the Geological Society of America South-Central section, GSA, Baton Rouge , LA. (March2016)

Juan Luis Gonzalez and Anita Chavez."Quantifying the age and volume of the South Texas Sand Sheet".50th Annual Meeting of the Geological Society of America south-central section, GSA, Baton Rouge , LA. (March2016)

Juan Luis Gonzalez."It's how old? Volcanoes, petrified forests, and the formation of El Sauz Chert: New Insights into the Geologic History of the Rio Grande Valley".FESTIBA, Edinburg. (March2016)

James Roscoe Hinthorne and Juan Luis Gonzalez and Axel K. Schmitt and Thomas J. Lapen."Precise 27 Ma U/Pb Zircon Ages of the Massive Late Oligocene Catahoula Ash Exposed at Rio Grande City, TX".South Central Section, Geological Society of America, Baton Rouge, LA. (March2016)

Chu-Lin Cheng and Juan Luis Gonzalez."Significance of South Texas Sand Sheet in Water Resource Management for Lower Rio Grande Valley".The Geological Society of America, South-Central Section Annual Meeting, Geological Society of America (GSA), South-Central Section, Baton Rouge, LA. (March2016)

Juan Luis Gonzalez and James R. Hinthorne."Constraining the thickness, Environment of Deposition and Bulk Chemistry of the Catahoula Volcanic Ash at Rio Grande City, Texas".49th Annual meeting of the Geologic Society of America south-central section, GSA, StillWater, OK. (March2015)

Juan Luis Gonzalez and James Roscoe Hinthorne."Constraining the thickness, environment of deposition and chemistry of the Catahoula Volcanic Ash at Rio Grande City, Texas".South Central Section, Geological Society of America, Stillwater, OK. (March2015)

Juan Luis Gonzalez."Natural Resources in South Texas".35th Annual Texas Hispanic Genealogical Conference, McAllen. (September2014)

Russell K Skowronek and Juan Luis Gonzalez and Bobbie Lovett."Deflation Troughs, Water and Prehistoric Occupation of The South Texas Sand Sheet".Society for American Archaeology Annual Meeting, Society for American Archaeology, Austin, Texas. (April 24, 2014)

Juan Luis Gonzalez and James Roscoe Hinthorne."Unique Oligocene-Miocene Volcanic Ash Exposure at Rio Grande City".South Central Section, Geological Society of America, Fayetteville, AR. (March2014)

Juan Luis Gonzalez and James Roscoe Hinthorne and D. Kumpe and Thomas Eubanks and Bobbie Lovett and Russell K Skowronek."Fingerprinting "El Sauz" Chert, a Distinctive Archeological Lithic Resource on the Lower Rio Grande".84th Annual Meeting Texas Archeological Society, Texas Archeological Society, Del Rio, TX. (October2013)

Juan Luis Gonzalez and Don Kumpe and Thomas Eubanks and Bobbie Lovett and Russell K Skowronek."Fingerprinting "El Sauz" Chert, a Distinctive Archeological Lithic Resource on the Lower Rio Grande".Texas Archeological Society Annual Meeting, Texas Archeological Society, Del Rio, Texas. (October 26, 2013)

Russell K Skowronek and John Robert Milford and Sonia Hernandez and Margaret Dorsey and Juan Luis Gonzalez and Kenneth Summy and Maria Lagorio."The Community Historical Archaeology Project with Schools (CHAPS): A New Community-focused Research Program in the Lower Rio Grande Valley".General Session titled, "Heritage Sites and Community Outreach: Preservation, Education, and Engagement Agendas" , Society for Historical Archaeology Annual Meeting, Austin, TX. (January 6, 2011)

Juan Luis Gonzalez and T.E. Törnqvist."Evidence suggesting coupled paleotemperature and sea-level change, 600 to 1600 AD: Insights from the Mississippi Delta".AMQUA biennial meeting, State College, Pennsylvania.2008)

Juan Luis Gonzalez and T.E. Törnqvist."Tentative evidence for climate/sea level connections from the late Holocene sedimentary record of the Mississippi Delta".Fall Meeting of the American Geophysical Union, 2008)

Juan Luis Gonzalez and T.E. Törnqvist."Comparison of 20th century and late Holocene rates of relative sea level rise for the North American Atlantic and Gulf Coasts: The importance of glacio-isostatic adjustment".Geological Society of America Annual meeting, Houston, Texas.2008)

Juan Luis Gonzalez and T.E. Törnqvist."Evidence for Coupled Paleotemperature and Sea-Level Change, 600 to 1600 AD: Insights From the Mississippi Delta. Late Holocene Sea Level and Climate".XVII INQUA Congress, Cairns, Australia.2007)

Juan Luis Gonzalez and T.E. Törnqvist."Interplay of eustasy, isostasy, and tectonism in coastal Louisiana".Fall Meeting of the American Geophysical Union, 2006)

T.E. Törnqvist and S. J. Bick and Juan Luis Gonzalez and K. van der Borg and J.A.M. Jon."The sea-level signature of the catastrophic final drainage of the Lake Agassiz system".Geological Society of America Annual meeting, 2006)

Juan Luis Gonzalez and T.E. Törnqvist."Evidence for Coupled Paleotemperature and Sea-Level Change, 600 to 1600 AD: Insights From the Mississippi Delta".Fall Meeting of the American Geophysical Union, 2005)

Juan Luis Gonzalez and T.E. Törnqvist."A new and simple approach to quantify the vertical indicative range of basal peat in the microtidal Mississippi Delta".IGCP Project 495 Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses, Bar Harbor, Maine.2004)

Juan Luis Gonzalez and T.E. Törnqvist and L.A. Newsom and K. van der Borg and A.F.M. de Jong and L.J. Heraty."Using the $\delta^{13}C$ signature of basal peat to infer paleosalinities - A new tool for sea-level research?".Fourth Annual Meeting of IGCP Project 437 Coastal Environmental Change During Sea Level Highstands, Barbados, W.I..2002)

Juan Luis Gonzalez and J.O. Martinez."Geomorfologia y Aspectos Erosivos del Litoral Caribe Colombiano. International Workshop on Shoreline Changes on the Western Caribbean Margin".UNEP, Port of Spain, Trinidad.1993)

Juan Luis Gonzalez and J.O. Martinez."Geomorfologia y Aspectos Erosivos del Litoral Pacifico Colombiano".International Workshop on Coastal Erosion Along the Southeastern Pacific Margin, UNEP, Guayaquil, Ecuador.1989)

Teaching

Teaching Experience

EEMS 6285, Graduate Research, 2 Course(s)

EEMS 6310, Coastal and Deltaic Processes, 4 Course(s)

EEMS 6385, Graduate Research, 4 Course(s)

EEMS 6485, Graduate Research, 1 Course(s)

EEMS 7300, Thesis I, 3 Course(s)

EEMS 7301, Thesis II, 4 Course(s)
 ENVR 3405, Oceanography, 2 Course(s)
 ENVR 4303, Envr Sci Res Proj, 6 Course(s)
 ENVR 4304, Envr Sci Internship, 4 Course(s)
 GEOL 1401, Physical Geology, 39 Course(s)
 GEOL 1402, Historical Geology, 35 Course(s)
 GEOL 1403, Physical Geology, 1 Course(s)
 GEOL 1404, Historical Geology, 29 Course(s)
 GEOL 3288, Lab Exp Teaching Geology, 2 Course(s)
 GEOL 3401, Geomorphology, 2 Course(s)
 GEOL 3403, Oceanography, 12 Course(s)
 GEOL 3404, Sedimentology&Stratigrap, 7 Course(s)
 GEOL 3404, Stratigraphy-Sedimant, 2 Course(s)
 GEOL 3405, Oceanography, 17 Course(s)
 GEOL 4170, Topics in Geology Lab, 2 Course(s)
 GEOL 4302, Environmental Geology, 1 Course(s)
 GEOL 4309, UG Research Geoscience, 4 Course(s)
 GEOL 4309, Undergra Res Geoscience, 2 Course(s)
 GEOL 4403, Seds and Strat, 4 Course(s)
 PSCI 1421, Physical Science I, 3 Course(s)
 PSCI 1422, Physical Science II, 15 Course(s)

Directed Student Learning

Master's Thesis Committee Chair, Edoardo Davila. Insights into the high sinuosity channels of the Rio Grande Delta, School of Earth, Environmental, and Marine Sciences. (July 2019)

Master's Thesis Committee Member, Eli Gonzalez. School of Earth, Environmental, and Marine Sciences. (August 2016)

Undergraduate Supervised Research, Mia Trevino. Grain Size Analysis and Loss on Ignition on a Paleo dune from the South Texas Sand Sheet, School of Earth, Environmental, and Marine Sciences. (January 2020 - May 2020)

Dissertation Defense Committee Member, Natalia Acevedo. Aplicaciones paleoclimáticas de los estudios mineralógicos a yacimientos de fosfatos explotados por las antiguas culturas del Circum-Caribe, Other (outside UTRGV). (August 2015 - July 2019)

Master's Thesis Committee Member, Cameron Moody. Evaluation of Nearshore Artificial Reef Site Materials in the Gulf of Mexico off Texas Using Swath Bathymetry and Sidescan Sonar, School of Earth, Environmental, and Marine Sciences. (February 2018 - June 2019)

Master's Thesis Committee Chair, Christopher Munoz. Phreatophytes along a north to south gradient of the South Texas Sand Sheet, School of Earth, Environmental, and Marine Sciences. (September 2017 - May 2019)

Undergraduate Supervised Research, Marcelo Saavedra. Mineralogical and textural characterization of eolian sands on the South Texas Sand Sheet, School of Earth, Environmental, and Marine Sciences. (December 2018 - April 2019)

Undergraduate Supervised Research, Karen Cantu. Morphometric Analysis of Meander Belts in the Rio Grande Delta, School of Earth, Environmental, and Marine Sciences. (September 2017 - July 2018)

Undergraduate Directed Individual/Independent Study, Amrita Singh. Revisiting Evapotranspiration in South Texas, School of Earth, Environmental, and Marine Sciences. (January 2018 - May 2018)

Undergraduate Directed Individual/Independent Study, Amado Zambrano. Contouring the thickness of the Catahoula Volcanic Ash in Starr County, School of Earth, Environmental, and Marine Sciences. (September 2017 - January 2018)

Undergraduate Supervised Research, Randolph De La Garza. Reconstructing the environment of Deposition of a Mass Grave of Giant Gopher Tortoises (*Gopherus hexagonatus*), Willacy County, Department of Biology. (October 2016 - June 2017)

Undergraduate Supervised Research, Anita Chavez. Constraining the thickness and volume of the South Texas Sand Sheet, School of Earth, Environmental, and Marine Sciences. (October 2015 - June 2016)

Undergraduate Supervised Research, Carlos Nuñez. Sand Petrology as a proxy for extreme wave events, a case study from Anegada, British Virgin Islands, School of Earth, Environmental, and Marine Sciences. (October 2015 - June 2016)

Undergraduate Supervised Research, Randolph Delagarza. Department of Biology. (October 2015 - June 2016)

Master's Thesis Committee Member, Rolando Silva. (May 15, 2013 - December 2015)

Undergraduate Honors Thesis, Amanda Cavazos. Other (within UTPA). (September 1, 2012 - May 15, 2013)

Service

Department Service

Participant, Graduate Student Recruiting Event, Edinburg Campus (March 2018)

Committee Chair, SEEMS Curriculum Committee (September 1, 2017)

Committee Chair, Planning and Assessment Committee (January 2017)

Committee Member, Policies Committee (September 2015)

Committee Member, Tenure and Promotion Guidelines (September 2015)

Committee Member, Tenure and Promotion (September 2015)

Faculty Advisor, Advisor for the Geology Club (September 2011)

Committee Co-Chair, OYA Search Committee for FY2020 (March 20, 2019 - August 20, 2019)

Committee Chair, 3 year lecturer Search Committee for Environmental Sciences (January 2019 - April 2019)

Committee Member, 3 Year lecturer for Anthropology. CHAPS Program (December 2018 - February 2019)

Committee Co-Chair, Relocation of the Geology teaching labs and the rock and mineral collections (May 2018 - August 2018)

Participant, Vaquero Round Up (August 24, 2018 - August 24, 2018)

Committee Chair, 3-year lecturer search (February 2018 - July 2018)

Committee Chair, 3 year lecturer search for Geology (February 2018 - May 2018)

Participant, Environmental Science Program at HESTEC family weekend (October 7, 2017 - October 7, 2017)

Committee Member, Revision to the Environmental Science Degree (January 2017 - August 2017)

Participant, Graduate Student Recruiting Event, Edinburg Campus (March 9, 2017 - March 9, 2017)

Other, Relocation of the Geology labs and rock and mineral collections (October 2016 - January 2017)

Participant, Environmental Science Program at HESTEC family weekend (September 8, 2016 - September 8, 2016)

Participant, Vaquero Round Up (August 29, 2016 - August 29, 2016)

College Service

Committee Member, College of Science Space Committee (April 1, 2019)

Participant, Starr County Initiative (Division of Institutional Advancement (August 2017 - August 2017)

University Service

Other, (September 22, 2017 - September 22, 2017)

Committee Member, Design the UTRGV mace (September 2014 - January 2017)

Development Activities Attended

- Seminar, "Structuring your Remote/Online Class to Make Learning STICK", Office of Faculty Success & Diversity (May 15, 2020 - May 15, 2020)

- Workshop, "Associate to Full Program", Office of Faculty Affairs & Diversity (September 2018 - November 2018)

Professional Service

Reviewer, Journal Article, Depositional Record. (June 2020 - July 2020)

Reviewer, Journal Article, Ocean and Coastal Management . (March 2020 - April 2020)

Reviewer, Journal Article, Estuaries and Coasts. (May 2019 - June 2019)

Session Chair, Society for American Archaeology. Albuquerque, NM (April 2019 - April 2019)

Reviewer, Journal Article, The Holocene. (December 2018 - December 2018)

Reviewer, Journal Article, Ocean and Coastal Management. (January 2018 - January 2018)

Reviewer, Grant Proposal, NSF Career Proposal. (September 2017 - September 2017)

Reviewer, Journal Article, Geoscience Letters. (January 2017 - January 2017)

Reviewer, Journal Article, Boletín de Investigaciones Marinas y Costeras. (September 2016 - September 2016)

Professional Memberships

Texas Archaeological Society, (TAS) (October 2014)

Society of American Archaeology, (SAA) (January 2014)

American Geophysical Union, (AGU) (June 2001)

Geologic Society of America, (GSA) (January 2001)

Public Service

Other, Bentsen Grove Rock Club. Mission, TX (February 25, 2020)

Other, South Texas Border Chapter Texas Master Naturalist. Pharr, TX (February 25, 2020)

Other, Bentsen State Park. Mission, TX (February 18, 2020)

Other, McAllen International Museum of Arts and Sciences. McAllen, TX (January 2, 2020)

Other, McAllen International museum of Arts and Sciences. McAllen, (February 7, 2019)

Other, South Texas Border Chapter Texas Master Naturalist. Lower RGV, TX (October 21, 2018)

Discussant, Presenter at a career day at Lincon-Juarez H.S.. La Joya, TX (September 21, 2018 - September 21, 2018)

Discussant, Presenter at a career day at Vanguard Rembrandt Secondary. Pharr, TX (April 5, 2018 - April 5, 2018)

Discussant, Presenter at a career day at JD Salinas M.S.. La Joya, TX (February 8, 2018 - February 8, 2018)

Other, South Texas Border Chapter Texas Master Naturalist. RGV wide, TX (March 5, 2017 - March 5, 2017)

Other, Public Exhibit. The Tairona Stone Tools. Edinburg, TX (January 2017 - February 2017)

Guest Speaker, SOUTH TEXAS HISTORICAL ASSOCIATION ANNUAL MEETING. Edinburg, TX (November 19, 2016 - November 19, 2016)

Guest Speaker, Edinburg Leadership Class XXVIII. Edinburg, TX (October 18, 2016 - October 18, 2016)

Other, Texas Commission of Environmental Quality. Rio Grande Valley wide, TX (October 5, 2016 - October 5, 2016)

Other, Texas Regional Collaboratives for Excellence in Science and Mathematics Teaching for middle school science teachers. Edinburg, (July 21, 2016 - July 23, 2016)