

**Curriculum Vitae**  
**LUIS A. GONZÁLEZ**

Business Address: The University of Kansas      Phone: 785-864-2743  
Department of Geology      Fax: 785-864-5276  
1475 Jayhawk Blvd.      E-mail: lgonzlez@ku.edu  
120 Lindley Hall  
Lawrence, KS 66047

**EDUCATIONAL AND PROFESSIONAL HISTORY**

**Higher Education**

- Ph.D.*      The University of Michigan, Ann Arbor, Michigan. (December 1989).  
*M.S.*      The University of Michigan, Ann Arbor, Michigan. (December 1983).  
University of Miami, Coral Gables, Florida. (1/1980-4/1980). Courses in education.  
The University of Texas, Austin, Texas. (9/1979-12/1979). Courses in sedimentary geology.  
*B.S.*      University of Puerto Rico, Mayagüez, Puerto Rico. (June, 1978-Cum Laude).

**Professional and Academic Positions**

- SACNAS Board of Directors*      Society for the Advancements of Chicanos/Hispanics and Native Americans in the Sciences. Santa Cruz, CA. (1/2013 – 12/2015)  
*Professor:*      Department of Geology, University of Kansas, Lawrence, KS (8/2011 - present).  
*Chair*      Department of Geology, University of Kansas, Lawrence, KS (7/2009 – present)  
*Associate Chair:*      Department of Geology, University of Kansas, Lawrence, KS (7/2004 – 6/2009)  
*Director*      KECK-NSF Paleoenvironmental and Environmental Isotope Laboratory, Department of Geology, University of Kansas, Lawrence, KS (7/2004 - present).  
*Associate Professor:*      Department of Geology, University of Kansas, Lawrence, KS (1/2003 – 7/2011).  
*Associate Professor:*      Department of Geoscience, University of Iowa, Iowa City, IA. (7/1995 - 12/2002).  
*Coordinator*      Environmental Sciences Program, Division of Interdisciplinary Programs, College of Liberal Arts, University of Iowa, Iowa City, IA. (7/2001 – 9/2002)  
*Director*      Paul H. Nelson Stable Isotope Laboratory, University of Iowa, Iowa City, IA. (11/1998 – 12/2002).  
*Interim Coordinator*      Environmental Sciences Program, Office of Interdisciplinary Programs, College of Liberal Arts, University of Iowa, University of Iowa, Iowa City, IA. (9/2000 – 6/2001)  
*Assistant Professor*      Department of Geology, University of Iowa, Iowa City, IA. 8/1989-6/1995.  
*Instructor*      Department of Geology, University of Puerto Rico, Mayagüez, PR. 8/1987-7/1989.  
*Research Assistant*      Dept. of Geological Sciences, University of Michigan, Ann Arbor, MI. 4/1986-7/1987, 1/1983 to 4/1984.  
*Teaching Assistant*      Dept. of Geological Sciences, University of Michigan, Ann Arbor, MI. 9/1981-12/1982.  
*Lecturer*      Department of Geology, University of Puerto Rico, Mayagüez, PR. 9/1980-7/1981.  
*Math Teacher*      Bishop McManus High School, Aguadilla, PR. 8/1978-7/1979.  
*Student Trainee:*      U.S. Army Corps of Engineers, San Juan, PR. 8/1977-1/1978.

**Honors and Awards**

- Fellow Geological Society of America*      Geological Society of America (Elected 2013)  
*Friend of the Society*      Society for the Advancement of Chicanos/Hispanics and Native Americans in the Sciences (SACNAS, since 2011)  
*Dean's Scholar*      College of Liberal Arts, The University of Iowa, Iowa City, IA (1999 – 2000)  
*Old Gold Summer Fellow*      The University of Iowa, Iowa City, IA. (Summer 1993).  
*Rackham Minority Fellow*      Horace H. Rackham School of Graduate Studies, The University of Michigan, Ann Arbor, MI. (1984-1986).

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<i>AGI-Minority Scholar</i>	American Geological Institute, Alexandria, VA. (1982-1986).
<i>Presidential Scholar</i>	Office of the President, The University of Puerto Rico, Central Administration, San Juan, PR. (1981-1986).
<i>Merit Award:</i>	Bishop McManus High School, Senior Student Council, Aguadilla, P.R. (Teaching Excellence Award, 1979).
<i>Harry H. Hess Award:</i>	School of Arts and Sciences, University of Puerto Rico, Mayagüez, P.R. (Best student in Geology, 1978 Commencement).

### Membership in professional and learned societies

American Association for the Advancement of Science; American Geophysical Union; American Quaternary Association; Sigma Xi, The Scientific Research Society; Society for Sedimentary Geology (Formerly Society of Economic Paleontologists and Mineralogists); Society for the Advancement of Chicano and Native American in Science (Friend of the Society); The Geological Society of America; The National Speleological Society

### Courses Taught

Carbonate Petrology and Geochemistry, Paleoclimatology, Stable Isotope Geochemistry, Geochemistry, Aqueous Geochemistry, Introduction to Environmental Geology, Introduction to Environmental Sciences, Earthquakes and Natural Disasters

### Post-Doctoral Associates

Post-Doctoral Associate:	Entry month/Year and Completion Year	Status/Outcome
Bradley Crammer	February 2010 – July 2012	Assistant Professor, University of Iowa
Timothy White	August 1997 to August 2000	Penn State Earth System Institute

### Students Supervised at the University of Kansas

Ph.D. Candidates: * = co-advised	Month/Year and Completion Year	Status/Outcome
Alvin Bonilla-Mercado	August 2007	Post-comp; Encana Energy, Denver
Julie B. Retrum*	January 2005, co-advised with Stephen Hasiotis	Graduated June 2010: Research Scientist Petroleum Institute, Abu Dhabi, UAE.
Celina Suarez	August 2005	Graduated June 2010: Assistant Professor University of Arkansas Fayetteville.
Marina Suarez	August 2005	Graduated June 2010: Assistant Professor Univ. Texas, San Antonio.
Michael Bruemmer	August 2004-July 2007	Dismissed from Program 2010; Conoco-Philips, Houston
Vionette De-Choudens	January 2003 - May 2007	Graduated May 2007: Conoco-Philips, Houston, TX

M.S. Candidates: * = co-advised	Entry month/Year and Completion Year	Status/Outcome
Isabel Villaneda-Van Vloten	August 2013	Current
Ted Morehouse	August 2013	Current
Luis G. Montalvo	August 2012	Defended January 2015; Geologist with Occidental Petroleum, Houston TX.
*Paula Richter	August 2011, co-advised with Robert Goldstein	Current
*Hunter Harlow	August 2010, co-advised with Greg Ludvigson	Defended August 2013; PhD Student at Baylor.
*Christine Frasca	December 2010, co-advised with Diane Kamola	Graduated December 2012; Geologist with Chevron,
*Joseph C. Lollar	December 2009, co-advised with	Graduated June 2011; Geologists Laredo

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Alejandra Rodriguez-Delgado	Greg Ludvigson August 2009-March 2012	Petroleum, Midland TX Defended March 2012; Geologist Marathon Oil, Houston TX
*Darren Welch	June 2007, co-advised with Jennifer Roberts	Withdrew from program 2009
Emily Tremain	May 2005 – May 2008	Withdrew from program 2008 Graduated August 2007: Assistant Professor Petroleum Institute, Abu Dhabi UAE
Aisha Al-Suwaidi	May 2005 - July 2007	Graduated August 2006: Encana, Corporation, Denver, Colorado.
Stacy Tincher (formerly Rosner)	August 2003-June 2006	

### Service in Graduate Student Committees

Ph.D. Candidates:	Service Period	Status/Outcome
Sarah Gibson	August 2012 to present	Pre-comps
Michelle Mary	May 2012 to present	Post-comps
Joshua Schmerge	May 2011 to present	Post-comps
Li Zhaoqi	January 2009 to present	Graduated June 2013
Laci Gerhart (EEB)	Spring 2009 to present	Graduated June 2013
Andrew Schwendemann (EEB)	Fall 2008 to present	Post-comps
Corinne Myers	Spring 2008 to present	Graduated June 2013
Karla Leslie	August 2007 to present	Graduated June 2012
Arne Sturm	August 2007 to present	Post-comps
Paul Kenward	September 2005 – December 2010	Graduated June 2010
Brian Platt	January 2006 - Present	Graduated June 2012
Julie B. Retrum	August 2004 - December 2004	Became Co-Advisor January 2005
Amy Frappier, University of New Hampshire	August 2003 - May 2006	Graduated Summer 2006

M.S. Candidates:	Service Period	Status/Outcome
Tabatha Gabay	April 2014 to present	Current
Jeffrey B. Ross	December 2012 to present	Current
Huan Liu	December 2011 to present	Current
Mark Villareal	January 2010 to present	Graduated June 2012
Misha Tsypin	January 2010-December 2011	Graduated December 2011
Sarah Spears (Gibson)	January 2009 to May 2012	Graduated June 2012
Neil Kinnebrew	December 2008 to July 2012	Defended July 2012
Natalie Givens	December 2005 - 2006	Graduated December 2006
Deborah Jennings	January 2005-June 2005	Graduated Summer 2005

Undergraduate Student Honor's Thesis	Entry month/Year and Completion Year
Ted Morehouse	August 2012 to May 2013
*Rebecca Totten	November 2005-May 2009. PhD Student at Rice.

### 2. Students Supervised at the University of Iowa

Ph.D. Candidates: * = co-advised	Entry month/Year and Completion Year	Status/Outcome
Heather Quevedo	August 1999 – July 2003	Graduated 12/2003, Staff Geologist Anadarko Petroleum, Houston.

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Vionette De-Choudens	January 2003-May 2003	Completed MS 5/2003 at U. Iowa, transferred to U. Kansas
*Lee M. Philips	August 1997 – June 2004	Graduated 8/ 2004. Director Office of Undergraduate Research, UNC, Greensboro
*David Ufnar	August 1998 – May 2002	Graduated May 2002: Adjunct Professor Southern Vermont College.
Christian Shorey	August 1996 – April 2002 (no prior MS)	Graduated May 2002: Teaching Professor and Assistant Department Head Colorado School of Mines.
Ruben Uribe	January 1996 – May 2002	Graduated May 2002: Exploration Geologist ExxonMobil, Dallas TX.
Rhawn F. Denniston	August 1995 – May 2000	Graduated May 2000. Professor and Department Chair Cornell College, Mt. Vernon Iowa.

M.S. Candidates: * = co-advised	Entry month/Year and Completion Year	Status/Outcome
Roger Gomez	January 1999 - July 2004	Graduate 8/2004: Hydrogeologist CH2M Hill, San Antonio TX
*Heidi Dowd	August 2000 – July 2003	Graduated 8/2003: Production Geologist OMV, Vienna, Austria.
Vionette De-Choudens	August 1998 –May 2003	Graduated 5/2003: PhD University of Kansas 2007; ConocoPhillips, Jakarta, Indonesia
Leah Young	December 1998 – July 2002	Graduated 8/2002: Professional Geologists, Barker Lemar, Des Moines, IA
*Jennifer Obrad	August 1999 – January 2002	Graduated 5/2002: Geologist, Illinois Water Survey
*Mary Ellis	August 1998 – December 2001	Graduated 12/2001: ACT, Iowa City
*Mark Wallace	August 1996 – July 1999	Graduated 8/1999; currently a chiropractor practicing in Memphis, TN
Aaron Suzuki	August 1996 – December 1998	Graduated 8/1998: Co-Founder and CEO Prowess Consulting, Seattle, Washington
Heather Reccelli-Snyder (currently Heather Steffe)	June 1994 – December 2004	Defended 5/1996, Final thesis submission November 2004: Environmental Consultant SAIC, Harrisburg PA
*Mary Clare Jones (currently Mary Clare Maxwell)	August 1995 – August 1997	Graduated Summer 1997: Risk Management Specialist, JPMorgan Chase, Chicago, Illinois
Suellen Leihmkuehler	August 1993 – May 1996	Graduated 5/1996: Environmental Consultant Toledo, Ohio
Randy Locke	August 1992 – May 1992	Graduated May 1994: Illinois Geological Survey
Hector Ruiz	August 1990 – May 1993	Graduated 5/1993: Collaboration Consultant, Critigen, Seattle, Washington
*Jeff Dorale	January 1990 – May 1992	Graduated May 1992: Associate Professor University of Iowa
Paul K. Knoerr	January 1990 – December 1991	Graduate 5/1991; Michigan Dept. of Natural Resources, Grand Rapids, Michigan

#### Service in Graduate student committees

Ph.D. Candidates:	Service Period	Status/Outcome
Adel E. Haj	2001 – 2002	Resigned committee 12-2002
Claudia Sartini	2001 – 2002	Resigned committee 12-2002
Lori Goetsch	1994 – 2000	Graduated 12/2000
Jie Lin	1995 – 2002	Resigned committee 12-2002

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Angela Bisnett.	1991 – 2001	Graduated 8/2001
Eilleen Herstrom	1995 – 1998	Graduated 8/1998
Peter Virkesland: Dept. of Civil and Envnmntl. Engineering	1996 – 1998	Graduated 12/1998
Hengchuan Wang: Dept. of Civil and Envnmntl. Engineering	1994 – 1996	Graduated 12/1996
Peter Jaumann	1992 – 1995	Graduated 12/1995
Chris J. Miller: Dept. of Civil and Envnmntl. Engineering	1993 – 1995	Graduated 8/1995
Ol Yu Kuon: Dept. of Civil and Envnmntl. Engineering	1993 – 1994	Graduated 8/1994
Bin Xiong	1990 – 1994	Graduated 8/1994
Robert C. Barry, Dept. of Civil and Envnmntl. Engineering.	1990 – 1993	Graduated 8/1993
R. Matthew Joeckel	1991 – 1993	Graduated 5/1993

M.S. Candidates:	Service Period	Status/Outcome
Jacob Letts	2001 - 2003	Graduated 12/2003
Elizabeth Blair	2001 - 2003	Resigned committee 12-2002
Wilfredo Rosado	2001 – 2003	Graduated 5/2003
Frances Delano	1999 - 2001	Graduated 12/2001
Vicky Baeder	1998 - 2000	Graduated 5/2000
Lynn Gilpin	1996 - 2002	Resigned committee 12-2002
Eric Brown	1995 - 2002	Resigned committee 12-2002
Claudia Sartini	1996 - 1998	Graduated 12/1998
Jennifer Weber	1996 - 1998	Graduated 12/1998
Anne Olesen	1995 - 1997	Graduated 5/1997
Ryan Keeler	1995 - 1997	Graduated 12/1997
Mike Maxwell	1994 - 1996	Graduated 8/1996
Darcy Foster.	1993 - 1995	Graduated 5/1995
Jamie Wineberg	1992 - 1994	Graduated 12/1994
Scott K. Clark	1991 - 1993	Graduated 12/1993
Vanessa Monell; Queens College - CUNY	1990 - 1993	Graduated 6/1993
Joel Zirkle	1990 - 1992	Graduated 5/1992
Steve Barnet	1990 - 1993	Resigned program in 1994
Orrin Plocher	1989 - 1990	Graduate 12/1990

Undergraduate Students Research/ *Honor's Thesis	Entry month/Year and Completion Year
Jennifer Carpenter	September 2001 – May 2002
Brian Hartman	June 2000 – June 2001.
*Jessica Gettinger (Rasmunsen)	June 1999 – May 2001.
Elizabeth Smith (U. Mass)	Summer 2000 (REU Scholar).
Valerie Gamble (Cornell C.)	Summer 2000 (REU Scholar).
Mary Clare Jones	June 1994 - May 1995.
Lori Hanson	August 1993 - June 1994.
*Phil Neuhoff	August 1992 - May 1993.

Pre-College Students Summer Research	Entry month/Year and Completion Year
Juna Kollmeir	Summer 1994
Toy Thomas	Summer 1994
Lyle Stefanich	Summer 1991
Karen Recker	Summer 1991
David Shireman	Summer 1990

## Curriculum Vitae – Luis A. González

### Departmental or Campus Lectures at University of Iowa

Geoscience, September 7, 2001

Paleoclimatic and Stratigraphic Implications of Meteoric Sphaerosiderite in Cretaceous Western Interior Basin

Geology, September 4, 1998:

Speleothem Based -Paleoclimatic and Paleoenvironmental Reconstructions for the Upper Mid-West

Chemical Engineering, September 17, 1993:

*High Resolution Paleoclimatic Studies in Cave Stalagmites in Northeastern Iowa.*

Geology, September 18, 1992:

*Diagenesis of Hydrocarbon Bearing Concretions in South-Central Puerto Rico: Tectonism and Early Hydrocarbon Generation.*

Sigma Xi CO-sponsored by Geology, January 31, 1992:

*8000 years of Climate History in Eastern Iowa: A Record Preserved in Fossil Pollen and Cave Stalagmites.*

With R. G. Baker.

Geology, October 11, 1991.

*Inorganic Calcite Morphology: Fluid Flow and Fluid Chemistry.*

### SCHOLARSHIP

#### Publications - Refereed

Advisees (*Post-Doctoral fellow*, **Graduate student**, Undergraduate student, pre-college.)

Google Scholar H-index 29; i10-index 53;

#### Monographs

Baker, R. G., Bettis III, E. A., Schwert, D. P., Horton, D. G., Chumbley, C. A., González, L. A., and Reagan, M. K., 1996, Holocene paleoenvironments of northeast Iowa: Ecological Monographs, v. 66, no. 2, p. 203-234.

#### Articles:

Articles in Review or Revision:

Ludvigson, G.A., Joeckel, R.M., Murphy, L.R., Stockli, D.F., González, L.A., Suarez, C.A., Kirkland, J.I., and Al-Suwaidi, A., *in press*, Review Paper: The emerging terrestrial record of Aptian-Albian global change: *Cretaceous Research*, doi 10.1016/j.cretres.2014.11.008

Suarez, M. B., Ludvigson, G. L., Gonzalez, L. A., and You, H-L., *in review*, Continental paleotemperature fluctuations associated with Early Cretaceous carbon isotope events: *submitted to Earth and Planetary Science Letters*. 20 ms pages, 3 tables, 2 figures.

**Bonilla-Rodríguez, A. J.**, González, L. A., Santos, H., Ramirez, W. R., and Velez-Juarbe, J., *in revision*, Albian carbon isotope ( $\delta^{13}\text{C}$ ) chemostratigraphy from the Caribbean Tethys, Central and Oriental Cordilleras in the Dominican Republic: *submitted to Cretaceous Research*. 33 ms pages, 10 figures.

**DeChoudens-Sánchez, V.**, Roberts, J. A., and Gonzalez, L. A., *major revisions in progress*, Exploring the role of microbial processes on calcium carbonate precipitation: Can crystal morphology be used to determine biogenic origins?: *Journal of Sedimentary Research*

#### Articles Published:

Heidari, A., Gonzalez, L., Ludvigson G., Moussavi-Harami, R., and Mahboubi, A., 2014, Diagenetic Model of Carbonate Rocks of Guri Member of Mishan Formation (Lower to Middle Miocene) SE Zagros Basin-Iran: *Journal of the Geological Society of India*, v. 84, p. 87-104.

Suarez, C.A., Gonzalez, L. A., Ludvigson, G.A., Kirkland, J. I., Cifelli, R.L., and Kohn M. J., 2014, Multi-taxa investigation of paleohydrology in the Early Cretaceous Cedar Mountain Formation, eastern Utah: Deciphering effects of the Nevadaplano Plateau on regional Climate: *Journal of Sedimentary Research*, v. 84, p.975-987. dx.doi.org/10.2110/jsr.2014.76

Heidari, A., Shokri, N., Gasemi, E., , R., Gonzalez, L., and Ludvigson, G., online August 2014, Application of petrography, major and trace elements, carbon and oxygen isotope geochemistry to reconstruction of diagenesis of carbonate rocks of the Sanganeh Formation (Lower Cretaceous), East Kopet-Dagh Basin, NE Iran: *Arabian Journal of Geosciences*, DOI 10.1007/s12517-014-1548-y.

- Bonilla-Rodriguéz, A. J., González, L. A.,** Walker, D. J., and Santos, H., 2014, Strontium isotope ( $^{87}\text{Sr}/^{86}\text{Sr}$ ) stratigraphy from the Coalcomanae - Caprinuloidea rudist assemblage in the Greater Antilles (Puerto Rico, Dominican Republic and Jamaica); *Cretaceous Research* v. 50, p. 97-109. doi:10.1016/j.cretres.2014.04.008
- Heidari, A., Mahboubi, Moussavi-Harami, R., Gonzalez, L., and Ali Moalemi, S., 2014, Biostratigraphy, sequence stratigraphy, and paleoecology of the Lower–Middle Miocene of Northern Bandar Abbas, Southeast Zagros basin in south of Iran, *Arabian Journal of Geosciences*, v. 7, p.1829-1855, doi: 10.1007/s12517-012-0803-3
- Kenward, P. A., Fowle, D. A., Goldstein, R. H., Ueshima, M., **González, L. A.**, and Roberts, J. A., 2013, Ordered low-temperature dolomite mediated by carboxyl-group density of microbial cell walls; *AAPG Bulletin*, v. 97, no. 11, p. 2113–2125. doi: 10.1306/05171312168
- Roberts, J. A., Kenward, P. A., Fowle, D. A., Goldstein, R. H., **González, L. A.**, and Moore, D. S., 2013, Surface chemistry allows for abiotic laboratory precipitation of dolomite at low temperature: *Proceedings of the National Academy of Sciences*, v. 110, no. 36, p. 14540-145-45. doi/10.1073/pnas.1305403110.
- Suarez, C.A., Ludvigson, G.A., **Gonzalez, L. A.**, Fiorillo, A. R., Flaig, P. P. and MCarthy, P. J., 2013, Use of multiple oxygen isotope proxies for elucidating Arctic Cretaceous Palaeohydrology: in Bojar, A.-V., Melinte-Dobrinescu, M. C. & Smit, J., eds., *Isotopic Studies in Cretaceous Research*, Geological Society of London, Special Publications, 382, 18p. doi:10.1144/SP382.3
- Suarez, M. B., Ludvigson, G. A., **González, L. A.**, Al-Suwaidii, A., and You, H-L., 2013, Stable isotope chemostratigraphy in lacustrine strata of the Xiagou Formation, Gansu Province, NW China: in Bojar, A.-V., Melinte-Dobrinescu, M. C. & Smit, J., eds., *Isotopic Studies in Cretaceous Research*, Geological Society of London, Special Publications, 382, 14 p. doi: 10.1144/SP382.1
- Ludvigson, G. A., **González, L. A.**, Fowle, D. A., Roberts, J. A., Driese, S. G., Villareal, M. A., Smith, J. J., and Suarez, M. B., 2013, Paleoclimatic Applications and Modern Process Studies of Pedogenic Siderite: in Driese S. G., and Nordt, L. C. eds., *New Frontiers in Paleopedology and Terrestrial Paleoclimatology: Paleosols and Soil Surface Analog Systems*, SEPM Special Publication 104, p. 79-87. doi: 10.2110/sepmsp.104.01
- Kenward, P. A., Goldstein, R. H., Brookfield, A. E., **González, L. A.**, and Roberts, J. A., 2012, Model for how microbial methane generation can preserve early porosity in dolomite and limestone reservoirs: *AAPG Bulletin*, v. 96, p. 399-413. doi:10.1306/06021111020
- Suarez, C.A., Gonzalez, L.A.,** Ludvigson, G.A., Cifelli, R.L., Tremain, E., 2012, Water utilization of the Cretaceous Mussentuchit local fauna, Cedar Mountain Formation, UT, USA: using oxygen isotopic composition of phosphate: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 313-314, p. 78-92. doi:10.1016/j.palaeo.2011.10.011
- Suarez, M. B., Gonzalez, L.A.,** and Ludvigson G.A., 2011, Quantification of a greenhouse hydrologic cycle from equatorial to polar latitudes: the mid-Cretaceous water bearer revisited: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 307, p. 301-312.
- Crowe, S.A., Katsev, S., Leslie, K., Sturm, A., Magen, C., Nomosatryo, S., Reeburgh, W., Roberts, J.A., **Gonzalez, L.**, Mucci, A., Sundby, B., and Fowle, D., 2011, The methane cycle in tropical Lake Matano: Methanogenesis, methane accumulation, and anaerobic methane oxidation. *Geobiology*, v. 9, p. 61-78, doi: 10.1111/j.1472-4669.2010.00257.x.
- Ludvigson, G. A., Joeckel, R. M., **Gonzalez, L. A.**, Gulbranson, E. L., Rasbury, E. T., Hunt, G. J., Kirkland, J. I., and Madsen, S., 2010, Correlation of Aptian-Albian carbon isotope excursions in continental strata of the Cretaceous foreland basin of eastern Utah: *Journal of Sedimentary Research*, v.80, p.955-974. doi: 10.2110/jsr.2010.086
- Driese, S. G., Ludvigson, G. A., Roberts, J. A., Fowle, D. A., **González, L. A.**, Smith, J. J., Vulava, V. M., and McKay, L. D., 2010, Micromorphology and Stable Isotope Geochemistry of Historical Pedogenic Siderite Formed in PAH-Contaminated Alluvial Clay Soils, Tennessee, USA: *Journal of Sedimentary Research*, v.80, p.943-954. doi: 10.2110/jsr.2010.087.
- Suarez, M. B., González, L. A.,** and Ludvigson, G. A., 2010, Estimating the oxygen isotopic composition of equatorial precipitation during the mid-Cretaceous: *Journal of Sedimentary Research*, v.80, p.480-491. doi: 10.2110/jsr.2010.048
- Suarez, C.A.,** Macpherson, G. L., **González, L.A.**, Grandstaff, D.E., 2010, Heterogeneous rare earth element (REE) patterns and concentrations in a fossil bone: implications for the use of REE in vertebrate taphonomy and fossilization history: *Geochimica et Cosmochimica Acta*, v. 74, p. 2970-2988. doi:10.1016/j.gca.2010.02.023.

- Ludvigson, G. A., Witzke, B. J., Joeckel, R. M., Ravn, R. L., Phillips Jr., P. L., González, L. A., and Brenner, R. L., 2010, New insights on the sequence stratigraphic architecture of the Dakota Formation in Kansas-Nebraska-Iowa from a decade of sponsored research activity: Kansas Geological Survey, Current Research in Earth Sciences, Bulletin v. 258, 41p. (<http://www.kgs.ku.edu/Current/2010/Ludvigson/index.html>)
- Kenward, P. A., Goldstein, R. H., González, L. A., and Roberts, J. A., 2009, Precipitation of low-temperature dolomite from an anaerobic microbial consortium: the role of methanogenic Archaea: *Geobiology*, v. 7, p. 1-10. doi: 10.1111/j.1472-4669.2009.00210.x
- DeChoudens-Sánchez, V.** and Gonzalez, L. A., 2009, Calcite and aragonite precipitation under controlled instantaneous supersaturation: elucidating the role of CaCO<sub>3</sub> saturation state and Mg/Ca ratio on calcium carbonate polymorphism: *Journal of Sedimentary Research*, v. 79, p.363-376. doi: 10.2110/jsr.2009.043
- Suarez, M. B.**, González, L. A., Ludvigson, G. A., Vega, F. J. and Alvarado-Ortega, J., 2009, Isotopic composition of low-latitude paleo-precipitation during the early Cretaceous: *GSA Bulletin*, v. 121, p. 1584-1596.
- Ufnar, D.F., Ludvigson, G.A., González, L.A., and Gröcke, D., 2008, Precipitation rates and atmospheric heat transport during the Cenomanian greenhouse warming in North America: Estimates from a stable isotope mass balance model: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 266 p. 28-38.
- Suarez, M. B., Suarez, C. A.**, Kirkland, J. A., Gonzalez, L. A., Grandstaff, D. E., Terry, D. O., 2007, Sedimentology, Stratigraphy and Depositional Environment of the Crystal Geyser Dinosaur Quarry, East-Central Utah: *Palaios* v. 22, p. 513-527.
- Denniston, R. F., Asmerom, Y., Polyak, V., Dorale, J. A., Carpenter, S. J., Trodick, C., Hoye, B., and González, L. A., 2007, Synchronous millennial-scale climatic changes in the Great Basin and the North Atlantic during the last interglacial: *Geology*, v. 35, p. 619-622.
- Phillips Jr., P. L., Ludvigson, G. A., Joeckel, R. M., **González, L. A.**, Brenner, R. L., and Witzke, B. J., 2007, Sequence stratigraphic controls on synsedimentary cementation and preservation of dinosaur tracks: example from the Late Albian Cretaceous Dakota Formation, southeastern Nebraska, U.S.A.: *Palaeogeography, Palaeoecology, Palaeoclimatology*, v. 246, p.367-389, doi:10.1016/j.palaeo.2006.10.013
- Frappier, A. B., Sahagian, D., Carpenter, S. J., González, L. A., Frappier, B. R., 2007, A stalagmite stable isotope record of recent tropical cyclone events: *Geology*, v.35, p. 111-114.
- Ufnar, D. F., González, L. A., Ludvigson, G. A., Brenner, R. L., Witzke, B. J., and Leckie, D., 2005, Reconstructing a mid-Cretaceous landscape from paleosols in western Canada: *Journal of Sedimentary Research*, v. 75, no. 6, p. 984-996.
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### 1994

- Clark, S. K., González, L. A., Reagan, M. K., Thorson, P. J., Jaumann, P., and Baker, R. G., 1994, Uranium series dating of speleothems: Climate and landscape changes in the Midwest: Center for Global and Regional Environmental Research Symposium Global Change II: A Midwest Perspective, Abstracts, p. 14.
- Dorale, J., Edwards, L., Ito, E., and González, L. A., 1994, Chronological control of the pollen record at Pittsburgh Basin through the use of speleothems: American Quaternary Association Program and Abstracts of the 13<sup>th</sup> Biennial Meeting, p. 76.
- González, L. A., Hanson, L., Reagan, M. K., Clark, S. K., Thorson-Work, P. J., Jaumann, P., Thomas, T., Kollmeier, J., Baker, R. G., and Dorale, J. A., 1994, Determination of Holocene precipitation variability in the upper Midwest: A record preserved in stalagmite calcite: Geological Society of America Abstracts with Programs v. 26, no.7, p. A61.
- González, L. A., Hanson, L., Reagan, M. K., Clark, S. K., Thorson, P. J., Jaumann, P., Dorale, J., and Baker, R. G., 1994, Determination of the periodicity and duration of recurrent wet and drought intervals in the Midwest from stalagmite calcite isotopic and growth rate records: Iowa Academy of Science 106<sup>th</sup> Annual Meeting, April 22.

## Curriculum Vitae – Luis A. González

- González, L. A., Reagan, M. K., and Baker, R. G., 1994, High Resolution (century to decadal) isotopic ( $^{18}\text{O}$  and  $^{13}\text{C}$ ) record preserved in speleothem calcite: Holocene vegetation and Climate change in the Midwest: Center for Global and Regional Environmental Research Symposium Global Change II: A Midwest Perspective, Abstracts, p. 18.
- Hanson, L., González, L. A., Jaumann, P., Reagan, M. K., Clark, S. K., Thorson, P. J., and Baker, R. G., 1994, Determination of Holocene precipitation variability in northeastern Iowa: A record preserved in stalagmite calcite: Center for Global and Regional Environmental Research Symposium Global Change II: A Midwest Perspective, Abstracts, p. 20.
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- Ludvigson, G. A., Witzke, B. H., and González, L. A., 1994, Stratigraphy, petrography, and geochemistry of sphaerosiderites in Cretaceous paleosols from the Woodbury Mbr., Dakota FM, NW Iowa: Geological Society of America Abstracts with Programs v. 26, no. 5, p. 51
- Ludvigson, G. A., Witzke, B. J., González, L. A., and Jaumann, P., 1994, Ancient hothouse climates in deep geologic time: Mid-Cretaceous (100-90 Ma) paleoclimatic records in the Iowa area: Iowa Academy of Science 106<sup>th</sup> Annual Meeting, April 22.
- Metzger, F. A., Ludvigson, G. A., Witzke, B. H., González, L. A., and Day, J. E., 1994, Stable isotopic chemostratigraphy of the Middle Devonian Cedar Valley Group: Initial data from the uppermost Givetian Lithograph City Formation: Geological Society of America Abstracts with Programs v. 26, no. 5, p. 55
- Xiong, B., González, L. A., and Heckel, P. H., 1994, Reversals of fortune -- Paleotopographic control over diagenetic gradients: Example from Stanton Cyclothem in northern Midcontinent: Geological Society of America Abstracts with Programs v. 26, no. 5, p. 68-69.
- 1993**
- Ciochon, R. L., González, L. A., De Vos, J., and Long, V. T., 1993, First report on the Uranium-series dating and composition of the Stegodon-Ailuropoda fauna from Lang Trang Caves, Northern Vietnam: Journal of Vertebrate Paleontology Abstracts of Paper of the Fifty-third Annual Meeting, Society of Vertebrate Paleontology, v. 13, no. 3 (supplement), p. 30A.
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- Ruiz, H. M., González, L. A., Budd, A. F., Guoquio, G., and Monell-González, V., 1993, Late Miocene (Tortonian to Messinian) mixing-zone diagenesis of the Mona Reef Complex, Isla de Mona, Puerto Rico: Geological Society of America Abstracts with Programs v. 25, no.6, p. A228
- 1992**
- Dorale, J. A., González, L. A., Reagan, M. K., Pickett, D. A., Murrell, M. T., and Baker, R. G., 1992, High resolution record of Holocene climate change in speleothem calcite from Cold Water Cave, northeast Iowa: Geological Society of America Abstracts with Programs v. 24, no.7, A49.
- González, L. A., 1992, Diagenesis of Hydrocarbon Bearing Concretions in south central Puerto Rico: Tectonism and early hydrocarbon generation: American Association of Petroleum Geologist 1992 Annual Convention Program, p.47.
- González, L. A., Ruiz, H. M., Budd, A., and Monell, V., 1992, A Late Miocene barrier reef in Isla de Mona, Puerto Rico: Geological Society of America Abstracts with Programs v. 24, no.7, p. A350.

## Curriculum Vitae – Luis A. González

- Ludvigson, G. A., Witzke, B. J., González, L. A., Plocher, O. W., and Jacobson, S. R., 1992, Sedimentological and stable isotopic evidence regarding the origin of hydrocarbon source rocks in the Guttenberg Limestone (Middle Ordovician), eastern Iowa: American Association of Petroleum Geologist Bulletin, v. 76, no.8, p. 1280-1281.
- Ludvigson, G. A., Witzke, B. J., Plocher, O. W., González, L. A., Raatz, W. D., and Jacobson, S. R., 1992, Carbon isotopic excursions associated with quasiestuarine circulation (QEC) during middle-late Ordovician sea level highstands: Geological Society of America Abstracts with Programs v. 24, no. 4, p. 53.
- Ludvigson, G. A., Witzke, B., González, L. A., Joeckel, R. M., and Hammond, R. H., 1992, Sedimentary evidence for mid-Cretaceous humid subtropical climates along the eastern margin of the Western Interior Seaway: SEPM 1992 Theme Meeting (Fort Collins, Colorado) Abstracts, p. 42.
- Plocher, O. W., Ludvigson, G. A., and Witzke, B. J., and González, L. A., 1992, Relative magnitudes of middle Devonian transgressive-regressive (T-R) carbonate cycles in Iowa: effects on stable isotopic composition of nonluminescent brachiopod calcites: Geological Society of America Abstracts with Programs v. 24, no. 4, p. 59.
- Xiong, B., Heckel, P. H., González, L. A., 1992, Diagenetic cements in transgressive and regressive limestone members of the Stanton Limestone (Upper Pennsylvanian), northern Midcontinent: Geological Society of America Abstracts with Programs v. 24, no.7, p. A56

### 1991

- Ludvigson, G. A., Witzke, B. J., Plocher, O. W., González, L. A., and Jacobson, S. R., 1991, Chemostratigraphic implications of submarine carbonate diagenesis in the Ordovician Decorah Fm. (Galena Gp.), Midcontinent U.S.A.: Geological Society of America Abstracts with Programs, v. 23, no. 5, p. A63.
- Ludvigson, G. A., Witzke, B. J., and González, L. A., 1991, A reconnaissance carbon-oxygen study of micritic components in Silurian marine carbonates from eastern Iowa: Geological Society of America Abstracts with Programs, v. 23, no. 3, p. 26.
- Ruiz, H., González, L. A., and Budd, A. F., 1991, Sedimentology and Diagenesis of Miocene Lirio Limestone, Isla de Mona, Puerto Rico: American Association of Petroleum Geologist Bulletin, v. 75, no. 3, p.664-665.

### 1990

- Dorale, J. A., González, L. A., Plocher, O. P., Shireman, D. A., and Reagan, M. K., 1990, Recrystallization of low magnesium calcite: a fluid dominated phenomena: Geological Society of America Abstracts with Programs v. 22, no.7, p. A313-A314.
- González, L. A., Ruiz, H., and Monell, V., 1990, Diagenesis of Isla de Mona, Puerto Rico: American Association of Petroleum Geologist Bulletin, v. 74, p.663-664.
- Ludvigson, G. A., Witzke, B. J., Plocher, O. P., González, L. A., and Lohmann, K. C, 1990, Secular variation of carbon-oxygen isotopic composition of Middle Ordovician marine carbonate: Geological Society of America Abstracts with Programs v. 22, no.7, A115.
- Plocher, O. P., Ludvigson, G. A., González, L. A., 1990, Secular variation of carbon-oxygen isotopes in successive carbonate cycles, Middle Devonian (Givetian) of the Mid-Continent, U.S.A.: Geological Society of America Abstracts with Programs v. 22, no.7, p. A115.
- Plocher, O. W., Ludvigson, G. A., and González, L. A., 1990, Stable isotopic and trace elemental study of diagenetic styles in adjacent transgressive-regressive (T-R) units, Middle Devonian Cedar Valley Group: Geological Society of America Abstracts with Programs v. 22, no. 5, p. 42.

### 1989

- González, L. A., Carpenter, S. J., Lohmann, K. C, and Anovitz, L. M., 1989, Inorganic calcite morphology: roles of fluid chemistry and fluid flow: Geological Society of America Abstracts with Programs v. 21, no.6, p. A16.
- Montgomery, H., González, L. A., McCann, W., Smith, A. L., Seiglie, G., Clement, J. and Lithgow-Bertelloni, C., 1989, Planktonic foram-filled borings in shallow water limestones, conflicting geopetals, river gravels and the opening of the Whiting Basin, offshore Southeastern Puerto Rico: Geological Society of America Abstracts with Programs v. 21, no.6, p. A341.

### 1988

- Joyce, J., Taggart, B., and González, L. A., 1988, U/Th - <sup>14</sup>C coral dates of Quaternary marine terrace deposits on Puerto Rico: Geological Society of America Abstracts with Programs v. 20, no.7, p. A346.

### 1987

- Zempolich, W. G., Hurley, N. F., and González, L. A., 1987, Diagenesis of the Lower Seven Rivers Formation (Permian), Guadalupe Mountains, New Mexico: SEPM Annual Midyear Meeting Abstracts, v. 4, p. 110.

## Curriculum Vitae – Luis A. González

### 1986

González, L. A., and Opdyke, B. N., 1986, Distribution and mineralogy of Holocene carbonate cements: controls on carbonate mineralogy: SEPM Annual Midyear Meeting Abstracts, v. 3, p. 44.

### 1985

González, L. A., and Lohmann, K. C., 1985, Controls on carbonate mineralogy and solid-solution of Mg in calcite: evidence from spelean systems: Geological Society of America Abstracts with Programs, v. 17, no.7, p. 594.

### 1984

González, L. A., Given, R. K., and Lohmann, K. C., 1984, The effects of calcium carbonate polymorphism and magnesium substitution on carbon and oxygen isotopic compositions: Examples from Holocene and Permian Reefal carbonates: Geological Society of America Abstracts with Programs, v. 16, no.6, p. 521.

### 1983

González, L. A., and Lohmann, K. C., 1983, Microscale variability of carbon and oxygen isotopic composition in Recent marine carbonates: Implications for paleothermometry and studies of paleocean chemistry: Geological Society of America Abstracts with Programs, v. 15, no.6, p. 583.

## Grants - External

### Submitted and Pending:

National Science Foundation – EAR Major Research Instrumentation:

MRI: Acquisition of Thermal Ionization Mass Spectrometer Instrumentation

**CO-PI**, with J. Douglas Walker (PD), Noah M. McLean, Andreas Moeller, and Jennifer Roberts, 2014-2017 (\$577,556).

### Awarded

National Science Foundation - Geobiology and Low Temperature Geochemistry:

*Collaborative Research: Actualistic Calibration of the Sphaerosiderite Paleoclimate Proxy*

**CO-PI**, with Greg Ludvigson (PD), Jennifer Roberts, and David Fowle, **2007-2012** (\$254,680).

Shell Oil Co.

*Experimental Carbonate Precipitation and Dissolution: Novel Approaches to Understanding and Quantifying Carbonate Diagenesis in Natural Systems*

**CO-PI** with Jennifer Roberts (PD), and Robert Goldstein, **2006 to 2009** (\$415,000).

National Science Foundation - Geology and Paleontology Program:

Supplemental Award to *Quantifying Changes in Hydrologic Cycle Fluxes over the Americas During the Mid-Cretaceous (Albian) Greenhouse World*

**Project director**, Greg Ludvigson CO-PI, **2006-2007** (\$29,999).

ExxonMobil

*Enhancing advanced training in sedimentary geology and geophysics for Latinos*

**CO-PI** with R. Goldstein, **2004-2009**, (\$15,000 yearly).

W. M. Keck Foundation

*University of Kansas Paleoenvironmental and Environmental Stable Isotope Laboratory*

**Project director**, R. H. Goldstein CO-PI, 14 other users. **2004-2007** (Agency: \$450,000; Total project \$1,156,913).

National Science Foundation – Major Research Instrumentation:

*Acquisition of isotope ratio mass spectrometers and related peripherals for geological, paleoenvironmental and environmental research at the University of Kansas.*

**PI and Project director**, 15 other users. **1 year, 2003-2004**, (Agency: \$250,000; Total project \$357,140)

National Science Foundation - Geology and Paleontology Program:

*Quantifying changes in hydrologic cycle fluxes over the Americas during the mid-Cretaceous (Albian) Greenhouse World.*

**Project Director**, G. Ludvigson, R. Brenner, B. Witzke, CO-PI's, **2002 – 2007**, (\$258,228).

National Science Foundation - Earth System History:

*Collaborative Research: Timing of Late Holocene changes in summer Indian monsoon intensity as recorded in speleothems, Pokhara Valley, Central Nepal.*

**Project Director**, with Rhawn F. Denniston, Collaborator at Cornell College, **2000-2003**, (\$35,066).

## Curriculum Vitae – Luis A. González

Department of Education - Graduate Assistantships in Areas of National Need:

*Recruiting talented students from underrepresented groups into Geology.*

**Project Director, 3 years, 1998-2002**, (Agency: \$380,485; Total project \$524,742)

National Science Foundation – Geology and Paleontology Program:

*Stratigraphic Architecture of A Middle Ordovician Carbon Isotope Excursion.*

**CO-PI**, with G. Ludvigson (PD), B. Witzke, S. Carpenter, CO-PI's, **1 year, 2000-2001**, (\$30,469).

Iowa Science Foundation:

*A continuous record of northern Iowa climate and vegetation from 0 to 30,000 years B.P.*

**Sole PI, 1 year 1999 – 2000**, (\$5000).

National Science Foundation-Geology and Paleontology Program:

*Paleoclimatic reconstructions of the eastern margin of the Albian-Turonian western Interior Basin, USA and Canada.*

**CO-PI**, with R. L. Brenner (PD); G. Ludvigson, B. Witzke, CO-PI's, **3 years, 1996-2000**, (\$229,000).

National Science Foundation - Geologic Record of Global Change - EAR:

*High resolution (century to decadal) isotopic ( $^{18}\text{O}$  and  $^{13}\text{C}$ ) records preserved in speleothem calcite: Holocene vegetation and climate change in the Midwest.*

**Project Director**, Mark K. Reagan and Richard G. Baker, CO-PI's, **3 years, 1994-1997**, (\$145,000).

National Oceanographic and Atmospheric Administration - Climate and Global Change Program:

*High-resolution (Century to Decadal) paleoclimatic records preserved in speleothem calcite of the Midcontinent-USA: Climate change in the Iowa-Minnesota-Wisconsin Border.*

**Project Director**, Mark K. Reagan and Richard G. Baker, CO-PI's, **2 years, 1993-1995**. (\$180,000).

Iowa Science Foundation:

*Paleocean Chemistry of Devonian Seas in Iowa.*

**CO-PI** with Greg Ludvigson (PD), Brian J. Witzke, Orrin W. Plocher, **1 year, 1991-1992**, (\$5,000).

National Science Foundation-Minority Research Initiation Planning Grants:

*Diagenetic record of transgressive-regressive (T-R) events of the Cenozoic of the Caribbean and the Paleozoic of the central Midcontinent: insights from computer modeling.*

**Sole PI, 1.5 year, 1990-1991**, (\$11,950).

National Science Foundation – Minority Research Centers of Excellence - MRCE:

*Minority Research Centers of Excellence in Caribbean and Tropical Sciences, Geology component for establishment of Center of Excellence in Geochemistry and Geophysics, University of Puerto Rico, Mayagüez, P.R.*

**Faculty Associate. 1988-1993**, (\$1.3 million).

### Grants Internal

CLAS Course Transformation Initiative: *Department of Geology Course Transformation Initiative: Transforming introductory major and service courses to enhance student learning.* **PI** with J. Roberts, A. Olcott Marshall, A. Moeller, G. Tsoflias, G. Macpherson CO-Is. **2013-2016** (\$225,000)

### University of Iowa

CGRER - Center for Global and Regional Environmental Research, The University of Iowa:

*Holocene Sphaerosiderites: Calibrating and Innovative Paleoclimate Proxy.*

**Project Director**, G. Ludvigson, CO-PI, **1 year 1999-2000**, (\$17,055).

Carver Scientific Research Initiative Grant, The University of Iowa.

*Decoding the temperature signals of the Cretaceous “Greenhouse World”.*

**Project Director**, G. Ludvigson, CO-PI, T. S. White, R. L. Brenner, B. J. Witzke, faculty associates, **1 year 1998 – 1999**, (1 year budget \$15,000).

Office of the Vice President for Research, The University of Iowa

*Matching funds for development of Stable Isotope Laboratory*

**Project Director, 1998 -1999**, (\$200,000 total project \$425,000)

CGRER - Center for Global and Regional Environmental Research, The University of Iowa:

*Matching funds for development of Stable Isotope Laboratory*

**Project Director, 1998 -1999**, (\$50,000)

## Curriculum Vitae – Luis A. González

- CIFRE - University of Iowa Central Investment Fund for Research Enhancement:  
*Seasonal Shifts in Isotopic Chemistry of Vadose Fluids.*  
**Sole PI, 1 year, 1998,** (\$9,792).
- Computer Fee Allocation Fund, The University of Iowa.  
*Upgrade of Undergraduate Instructional Computer Facilities in Geology.*  
**Sole PI, 1 year, 1997,** (\$123,180).
- CGRER - Center for Global and Regional Environmental Research, The University of Iowa:  
*Determination of the Fluxes and Origin of Methane in Glacigenic Deposits and Landfills of the Upper Midwest.*  
**Sole PI, 1 year, 1995-96,** (\$14,909,).
- CGRER - Center for Global and Regional Environmental Research, The University of Iowa:  
*Paleoclimatology and Paleohydrology of the North American Interior in the Mid-Cretaceous 'Greenhouse World'.*  
**CO-PI** with Dr. G. Ludvigson (PD), Dr. B. Witzke, and Dr. R. Brenner, **1 year, 1995-96,** (\$6,000).
- Committee on International Travel, The University of Iowa:  
*Travel to PEP II Symposium and Nepal Caves.*  
**Sole PI, December 1995,** (\$750).
- Carver Research Initiative Program, The University of Iowa:  
*Mid-Holocene Climatic Fluctuations in the Northern Hemisphere: High Resolution Paleoclimatic Records Preserved in Speleothem Calcite.*  
**Sole PI, 1 year, 1993-94,** (\$10,430).
- Committee on International Travel, The University of Iowa:  
*Travel into the Lang Trang Caves, northern Vietnam.*  
**Sole PI, 1993,** (\$2,000).
- CGRER Center for Global and Regional Environmental Research, The University of Iowa:  
*High-resolution paleoclimatic analysis in speleothem calcite, Cold Water Cave, Iowa.*  
**Project Director,** with Mark Reagan CO-PI, **1 year, 1992,** (\$14,950).
- Office of Research Coordination: Faculty of Arts and Sciences, University of Puerto Rico, Mayagüez, PR:  
*Karstification, speleothem chemistry, and dolomitization in Isla de Mona.*  
**Sole PI. 1987-1988,** (\$2500); **1988-1989,** (\$2000).

### Others (Graduate Student Research Grants)

- Geological Society of America - North Central Section:  
*Major, minor, trace element and stable isotopic composition of spelean carbonates.*  
**Sole PI. 1985-86,** (\$600).
- Rackham Dissertation Grant, The University of Michigan, Ann Arbor, MI:  
*Controls on mineralogy, minor, trace element and stable isotopic chemistry of spelean carbonates.*  
**Sole PI. 1985-1986,** (\$2500).
- Scott Turner Fund, The University of Michigan, Ann Arbor, MI.  
*Major, minor, trace element and stable isotopic composition of spelean carbonates.*  
**Sole PI. 1984-85,** (\$1500); **1985-86,** (\$2000).
- Scott Turner Fund, The University of Michigan, Ann Arbor, MI:  
*Carbon and oxygen isotopic composition of Holocene reefal carbonates.*  
**Sole PI. 1982-83,** (\$1500).

### Invited Lectures, Conference Presentations, and Workshop/Panel Discussions

#### International

- KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS: *Integrating Experimental, Geochemical, and Field Observations to Improve on Existing Paradigms.* January, 28, 2015.
- 22<sup>ND</sup> ANNUAL SYMPOSIUM ON CARIBBEAN GEOLOGY: *Petroleum Potential of Puerto Rico.* Department of Geology, University of Puerto Rico at Mayagüez, Puerto Rico April 5-7, 2006. Keynote speaker  
Lecture: *Origin of Upper Cretaceous carbonate concretions and veins in the Cariblanco formation of south-central Puerto Rico: Implications for hydrocarbon generation and migration*

## Curriculum Vitae – Luis A. González

- Lecture: *Chasing a white elephant: hydrocarbon exploration in the North Coast Tertiary Basin of Puerto Rico*.
- INSTITUTO COLOMBIANO DE PETRÓLEO (ICP): *Cuantificación del Ciclo Hidrológico Sobre América Durante el Cretácico Medio (Albiano)*. May 20, 2004, Bucaramanga, Colombia.
- SOCIEDAD ESPELEOLÓGICA VENEZOLANA (SVE): *Estalagmitas y la Reconstrucción de Paleoambientes y Paleoclimas en Regiones Tropicales*. January 9, 2002, Caracas, Venezuela.
- 19<sup>TH</sup> ANNUAL SYMPOSIUM ON CARIBBEAN GEOLOGY: *Karst Processes, Aquifers, and Carbonate Petrology*. Department of Geology, University of Puerto Rico at Mayagüez, Puerto Rico February 28-March 3, 2001. Keynote speaker  
Lecture: *Geology, diagenesis, and karst development in Isla de Mona Puerto Rico*  
Lecture: *The Use of Speleothems in Paleoclimatic and Paleoenvironmental Studies*.
- PAGES/NSF/SCAR Workshop, *High-Resolution Climate Variability of the Holocene*, Avignon, France. October 23 to 27, 2000.  
Lecture: *High-resolution speleothem records status report on research in the Nepal Himalayas, the Caribbean, and the North American Midwest*.
- PAGES/PEP II Symposium, *Paleoclimate and Environmental Variability in Austral-Asian Transect during the Past 2000 Years*, Nagoya, Japan, November 28 to December 2, 1995.  
Lecture: *Use of stalagmites in High Resolution Paleoclimatic Studies*.
- PAGES Himalayan/Tibetan Plateau Paleoclimate Workshop, Kathmandu, Nepal, April 7-11, 1995.  
Lecture: *Extraction of monsoonal variability from stalagmite growth banding and stable isotopic composition: an example from northern Vietnam*
- TRIBHUVAN UNIVERSITY (Nepal), Department of Geology, *Use of Speleothem in Paleoclimatic Studies: Application to the Himalayas*, December 10, 1995, Kathmandu, Nepal.

### National

- SYRACUSE UNIVERSITY: *Quantification of the mid Cretaceous (Aptian-Albian) Hydrologic Cycle from Northern Hemisphere Americas Proxy Data*. December 4, 2014, Syracuse, NY.
- SACNAS - Society for the Advancement of Chicanos and Native American in Sciences – Panel Discussion: On Getting Tenure, October 3, 2013, San Antonio, Texas.
- SACNAS - Society for the Advancement of Chicanos and Native American in Sciences – Panel Discussion: Tools, Techniques, & Experience: Advice for Faculty on Mentoring Doctoral Students, October 29, 2011, San Jose, California.
- UNIVERSITY OF NEVADA, LAS VEGAS: Lecture: *The role of saturation in controlling CaCO<sub>3</sub> mineralogy, crystal morphology, and carbonate fabrics: new insights into an unsolved enigma*. November 10, 2010, Las Vegas, Nevada.
- SACNAS - Society for the Advancement of Chicanos and Native American in Sciences – Invited Talk: Holocene Climate Change in Tropical America: Pinpointing the Onset of Anthropogenic Impact on Global Climate. October 10, 2008, Salt Lake City, Utah
- BAYLOR UNIVERSITY: Lecture: *The use of speleothems in paleoenvironmental and paleoclimatic reconstructions*. March 30, 2007, Waco, Texas.
- NATIONAL SCIENCE FOUNDATION: Workshop: *Proxies*. December 10, 2005, San Francisco, California.
- UNIVERSITY OF PUERTO RICO, MAYAGÜEZ: Workshop: *Diagenesis*: January 14-15, 2005, Mayagüez, Puerto Rico.
- NATIONAL SCIENCE FOUNDATION: Workshop: *Geosystems*. September 9-11, 2004, Arlington, Virginia.
- SGE University of Puerto Rico, Mayagüez: Workshop: *Internship and Research Opportunities for Geology Majors*. November 13, 2003, Mayagüez, Puerto Rico.
- SACNAS – Society for the Advancement of Chicanos and Native American in Sciences – Invited Talk: *Multi-proxy Approach to Paleoenvironmental, Paleoclimatic, and Paleohydrologic Reconstructions*. October 2-5, 2003, Albuquerque, New Mexico.
- UNIVERSITY OF WESTERN KENTUCKY – Lecture: *The use of stalagmites in paleoclimatic and paleoenvironmental reconstructions*. October 11, 2002, Lexington, Kentucky.
- UNIVERSITY OF MISSOURI – Lecture: *Quantifying Precipitation Flux Changes of the mid-Cretaceous (Albian) Greenhouse World: Isotope Mass Balance Approach Constrained by Sphaerosiderite Oxygen Isotope Composition*  
September 6, 2002, Columbia, Missouri,

## Curriculum Vitae – Luis A. González

- UNIVERSITY OF KANSAS – Lecture: *Petrography and stable isotope geochemistry of Upper Cretaceous carbonate concretions and veins in the Cariblanco Formation of south-central Puerto Rico: Implications for hydrocarbon generation and migration*. May 13, 2002, Lawrence, Kansas.
- JOI/USSAP AND NATIONAL SCIENCE FOUNDATION: Workshop: *Cretaceous Climate and Ocean Dynamics*. July 12-18, 2002, Florissant, Colorado.
- UNIVERSITY OF NEW HAMPSHIRE – Lecture: *Quantifying Precipitation Flux Changes of the mid-Cretaceous (Albian) Greenhouse World: Isotope Mass Balance Approach Constrained by Sphaerosiderite Oxygen Isotope Composition* April 25, 2002, Durham, New Hampshire
- EXXON/MOBIL DEVELOPMENT COMPANY – Carbonate Development Group, Houston Texas – Lecture: *Carbon Isotope Chemostratigraphy of the Pennsylvanian Iola Cyclothem: Implication for Depositional Models of Pennsylvanian Cyclothems*. December 5, 2001, Houston, Texas.
- THE UNIVERSITY OF TEXAS AT EL PASO – Lecture: *Quantifying Precipitation Flux Changes of the mid-Cretaceous (Albian) Greenhouse World: Isotope Mass Balance Approach Constrained by Sphaerosiderite Oxygen Isotope Composition* September 20, 2001, El Paso, Texas.
- GEOLOGICAL SOCIETY OF AMERICA ANNUAL MEETING - in special session: *Sediments in Karst Systems: Processes, Mechanisms, Interpretation* (hosted by GSA Hydrogeology Division; Karst Waters Institute, Quaternary Geology and Geomorphology Division), Lecture: *The use of stalagmites in the study of the history of the Asian monsoon system*. October 25, 1999, Denver, Colorado.
- THE SCIENCE OF GLOBAL CLIMATE CHANGE: A Symposium on the State-of-the-Science, sponsored by: Center for Global and Regional Environmental Research (The University of Iowa) and the Iowa Division United Nations Association – USA. Lecture: *Climate Change from Geochemistry* Panelist: Paleoclimate Panel. May 5, 1999, Iowa City, Iowa.
- MIDWEST CONSORTIUM FOR LATINO RESEARCH 3rd Annual Scholars' Roundtable: *From Transformed to Transformational Leadership: Latino Scholarship and Activism*: Lincoln, Nebraska, August 16-18, 1996.
- IOWA STATE UNIVERSITY, Department of Geological and Atmospheric Sciences: Lecture: *Use of Speleothem in Paleoclimate Reconstructions* September 19, 1997, Ames, Iowa.
- IOWA MICROSCOPY SOCIETY - Fall Meeting: Lecture: *Fluorescence banding in stalagmites* September 26, 1996, University of Iowa, Iowa City, Iowa.
- ILLINOIS STATE MUSEUM – Lecture: *High-resolution (Decadal to Inter-annual) paleoclimatic signatures preserved in speleothem calcite isotopic (C and O) and growth banding records*. May 4, 1994, Springfield, Illinois.
- IOWA STATE UNIVERSITY, Department of Geological and Atmospheric Sciences, Lecture: *Inorganic Calcite Morphology: Fluid Flow and Fluid Chemistry*. February 4, 1993, Ames, Iowa.
- US GEOLOGICAL SURVEY Water Resources Division - San Juan, Puerto Rico: *Geology of Isla de Mona* January 17, 1992: San Juan, Puerto Rico.

### Local/Regional

- KANSAS GEOLOGICAL SOCIETY SEMINAR SERIES: *The Onset of Global Climate Change: Human Induced and Unstoppable*. November 30, 2010. Wichita, Kansas.
- CANON CITY GEOLOGY CLUB: *The Use of Speleothems in Paleoenvironmental and Paleoclimatic Reconstructions*. August 9, 2010, Canon City, CO.
- ENUENTRO: Rancho Buena Vista High School, Vista California. October 28, 2010 – Skype Outreach to High School Students.
- PREPARING FUTURE FACULTY CONFERENCE: *TRANSITIONING TO AN ACADEMIC CAREER*, The University of Kansas, Panel Discussion: *The Campus Interview*. September 12<sup>th</sup>, 2009, Lawrence, Kansas.
- MULTI-ETHNIC ENGINEERING STUDENT ASSOCIATION (MESA), The University of Iowa, Martin Luther King Week Panel Discussion: *The Advantages of Ethnic Diversity in Academia*. January 21, 1999, Iowa City, Iowa.
- INTER-AMERICAN UNIVERSITY (PUERTO RICO), Third Festival of Nature, Flora and Fauna: Lecture: *Caves and Karst of the North Coast of Puerto Rico*, May 18, 1988: Aguadilla, Puerto Rico.

**SERVICE**

**AT UNIVERSITY OF KANSAS**

**Departmental**

Departmental Committees and Service

- Self Study Committee – Chair (2009-2011)
- Carbonate Process Sedimentology Search Committee - Chair (2007-2008)
- Jayspace Inventory Coordinator - (2004 - 2009)
- Paleobiogeochemistry Search Committee - Chair (2005-2006)
- Microbial Ecology and Paleoecology Search Committee - Chair (2004-2005)
- Graduate Admissions Committee (2004-2009)
- Promotion and Tenure Committee (2003-04)
- Futures Committee - Chair (2003-2004)
- Graduate Committee (Spring 2003)

Student Advising and Service

- SGE - faculty advisor (2004 - 2006)

**University Wide**

- Bold Aspirations: Goal 2, “Elevating Doctoral Education” Implementation Committee: Office of Graduate Studies (2012-present)
- NanoScience Task Force: Office of the Vice-Chancellor for Research (2012)
- Sustaining the Planet, Powering the World Summit Organizing Committee (2011-2012)
- Graduate Studies Dean Search Committee: Office of the Provost (2011)
- Kansas Geological Survey Director Search Committee: Office of the Provost (2010-2011)
- Diversity Working Group: Office of the Provost (2006-2007)
- Multidisciplinary Research Building “Neighborhood Association” Steering Committee (2005 - 2009)
- Space & Infrastructure Committee: Office of the Vice-Provost for Research (2004-2005)
- Vice-Provost for Research Search Committee: Office of the Provost (2003-2004)

**Service to Profession**

Editorships

- Associate Editor, Geosphere: Geological Society of America Online Journal (2004-2014)

Boards, Councils, and other leadership service

- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE. Member Board of Directors, 2013-2015.
- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE. Co-Chair Executive Director Search \Committee, 2013-2014.
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Professional Societies Committees and other Duties

- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE National Conference Program Committee (2013-2016)
- AMERICAN GEOPHYSICAL UNION: Congressional Visit Day September 11-12, 2012, Washington, DC.
- AMERICAN QUATERNARY ASSOCIATION. Denise Gaudreau Award Selection Committee (2010)
- GEOLOGICAL SOCIETY OF AMERICA. GSA Diversity Statement Implementation Committee (2011-2012)
- GEOLOGICAL SOCIETY OF AMERICA. Diversity in Geoscience Committee Chair (2010-2012).
- GEOLOGICAL SOCIETY OF AMERICA. Diversity in Geoscience Scholarship Committee Chair (2010-2012).
- GEOLOGICAL SOCIETY OF AMERICA. Subaru Minority Scholarship Selection Committee Chair (2012)
- GEOLOGICAL SOCIETY OF AMERICA. Bromery Award Selection Committee (2010, 2012)
- GEOLOGICAL SOCIETY OF AMERICA. Diversity in Geoscience Committee (2009-2012).
- AMERICAN QUATERNARY ASSOCIATION. Councilor Geochemistry (2008-2011)
- GEOLOGICAL SOCIETY OF AMERICA. Joint-Technical Program Committee (2004-2006).
- GEOLOGICAL SOCIETY OF AMERICA. Pardee Symposia Review Panel (2004).
- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE. Organizing the 2007 Geoscience Fieldtrip for the national meeting held in Kansas City.

## Curriculum Vitae – Luis A. González

- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE. Geoscience student presentation judge and judging subcommittee chair at 2003, 2007, 2008, 2009, 2010, 2011, 2012, 2013 national meetings.
- SOCIETY FOR THE ADVANCEMENT OF CHICANOS AND NATIVE AMERICANS IN SCIENCE. Geoscience and Environmental Sciences student mentor at 2007, 2008, 2009, 2010, 2011, 2012 national meetings.

### Manuscript and Proposal Reviews

2014

- NATIONAL ACADEMIES: Ford Foundation Fellowship Programs March 4-5, Irvine CA.
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2013

- NATIONAL ACADEMIES: Ford Foundation Fellowship Programs March 4-5, Irvine CA.
- NATIONAL SCIENCE FOUNDATION: 1 proposal (decline 1 request)

2012

- NATIONAL SCIENCE FOUNDATION: 2 proposals (decline 5 requests)

2011

- NATIONAL SCIENCE FOUNDATION: Frontiers in Earth System Dynamics Panel May 31 to June 2, Arlington VA.
- NATIONAL SCIENCE FOUNDATION: 1 proposal (decline 3 requests)
- JGR: 1 manuscript
- GEOPHYSICAL RESEARCH LETTERS: 1 manuscript.

2010

- NATIONAL SCIENCE FOUNDATION: 2 proposal (decline 4 requests)
- EOS: 1 manuscript
- JGR: 1 manuscript
- GEOLOGY: 1 manuscript
- JSR: 1 manuscript, 1 decline

2009

- NATIONAL SCIENCE FOUNDATION: 2 proposals (decline 2 requests)
- GEOLOGY: 1 manuscript.
- JOURNAL OF GEOPHYSICAL RESEARCH: 1 manuscript.
- JOURNAL OF SEDIMENTARY RESEARCH: 1 manuscript.

2008

- NATIONAL SCIENCE FOUNDATION: 3 proposals (decline 4 requests)
- GEOLOGY: 1 manuscript.

2007

- NATIONAL SCIENCE FOUNDATION: 2 proposals
- NATIONAL GEOGRAPHIC: 1 proposal.

2006

- GEOLOGY: 1 manuscript.
- GEOPHYSICAL RESEARCH LETTERS: 2 manuscripts.
- NATIONAL SCIENCE FOUNDATION: 5 proposals
- PETROLEUM RESEARCH FUND: 1 proposal.
- NATIONAL GEOGRAPHIC: 1 proposal.
- PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY: 2 manuscripts

2005

- NATIONAL SCIENCE FOUNDATION: 6 proposals.
- GEOLOGY: 2 manuscripts.

2004

- EARTH AND PLANETARY SCIENCE LETTERS: 1 manuscript
- JOURNAL OF GEOPHYSICAL RESEARCH: 2 manuscripts
- JOURNAL OF SEDIMENTARY RESEARCH: 2 manuscripts
- NATIONAL SCIENCE FOUNDATION: 3 proposals

## Curriculum Vitae – Luis A. González

- PETROLEUM RESEARCH FUND: 2 proposals.

2003

- NATIONAL GEOGRAPHIC SOCIETY: 1 proposal
- NATIONAL SCIENCE FOUNDATION: 4 proposals.

### AT UNIVERSITY OF IOWA

#### Departmental Committees

- Space Committee, (1993-2000).
- Contaminant Hydrogeology Search Committee (2000-2001).
- Vertebrate Paleontology Search Committee, (1999-2000).
- Quaternary Soils and Geomorphology Search Committee (1999-2000).
- Executive Committee, (1998-1999).
- Paleontology Search Committee (1998-1999).
- Self-Study Committee, Chair, (1997-1998).
- Strategic Plan Committee, (1993-1998).
- Tenure and Promotion Committee for Y. K. Zhang, (1996-1997).
- Environmental Sciences Planning Committee, Chair (1995-1997).
- Graduate Admissions Committee, (1995-1998).
- Instrumentation Committee, (1995-98).
- Computer Committee, (1995-1998).
- Department of Geology Hydrogeologist Search Committee, (1992-1993).
- Department of Geology Structural Geologist Search Committee, (1991-1992).
- Department of Geology Structural Geologist (1 year temporary) Search Committee, (1990-1991).
- Department of Geology Hydrogeologist Search Committee, (1989-1990).
- Department of Geology Development of Environmental Geology BA program, (1989-1990).

#### Departmental Facilities/Supervision

- Undergraduate Advisor for Environmental Sciences Hydrosociences track (1997-2000; 2001-2002).
- Main Undergraduate Advisor for Environmental Sciences Program (undeclared track), (1997-1999).
- Departmental Representative to the UI Geology Alumni Advisory Board GAAB (1995-2000).
- Supervision of Thin Section and Rock Preparation Laboratory Technician (1994-2000).
- Operation of the Ion Chromatography Facility - Sedimentary Geochemistry Laboratory. Supervision and training of student and securing funding for operations as well as trouble-shooting and maintenance of instrument (1990-2002).
- Editor Geology Departmental Annual Newsletter (1995-1997).
- Maintenance of Departmental Macintosh instructional computer cluster (1995-1998).
- Departmental Macintosh Workstation 15H-TH. Training of student and faculty and maintenance of computer facilities utilized for technical illustration, data analysis, and image processing (facility replaced in 1995), (1991-1995).

#### **College of Liberal Arts and Sciences**

- Environmental Sciences BS Program Executive Committee, (7/1997 – 9/2002).
- College of Liberal Arts Faculty Assembly – Group III representative (1998-2001).
- College of Liberal Arts, Ad-Hoc Advisory Committee on Degree Programs relating to the Environment, (1996).

#### **University of Iowa and Regent's Institutions**

- Iowa Lakeside Laboratory Advisory Board, Iowa Regents Institutions, Iowa (8/2001 – 12/2002).
- Center for Global and Regional Environmental Research Executive Committee, The University of Iowa, Iowa City, Iowa (1994 – 2002).
- VP for Research, Advisory Committee in the Physical and Mathematical Sciences (1998-2000).
- Graduate College, Graduate Opportunity Program Fellowship Committee, (1994-1997).
- Office of the Provost, Task Force on Coordinating UI Environmental Education and Research Programs, (1996).

## Curriculum Vitae – Luis A. González

### **Service to Profession**

#### Professional Societies Committees and other Duties

- SIGMA XI-IOWA CHAPTER: President: 1992-1993; Vice-president 1991-1992; Secretary 1990-1991.

#### Symposia Organization

Diagenetic Analysis of Transgressive-Regressive Events: Great Lakes Section, SEPM, held May 1, 1992 at the annual meeting of the Geological Society of America North Central Section. Organized with Greg A. Ludvigson.

#### Review panels

- NSF-Young Scholars Program: October 17-18,1991. Washington, DC.
- NSF-Young Scholars Program: October 25-26,1990. Washington, DC.
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#### Articles and Proposal Peer Reviews

#### **Served as reviewer for over 85 journal articles for the following journals/publications**

AAPG - Bulletin; AAPG Special Publications; Chemical Geology; Earth and Planetary Science Letters; Earth Surface Processes; Environmental Science and Technology; Geochimica et Cosmochimica Acta; Geological Society of America - Bulletin; Geological Society of America - Special Papers; Geology; Global Biogeochemical Cycles; Journal of Sedimentary Petrology; Journal of Sedimentary Research; Quaternary Research; Water Resources Bulletin

#### **Served as reviewer for over 85-research proposals for the following agencies.**

Iowa Academy of Sciences; Canadian Research Council; National Oceanic and Atmospheric Administration; Petroleum Research Fund; National Science Foundation Programs including: Earth Sciences Instrumentation; Geology and Paleontology; International Programs; Major Research Instrumentation; Earth System History