

Gregory D. Hoke

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Curriculum Vita
January 2021

RESEARCH INTERESTS

Interaction between landscapes, climate and tectonics
Isotopic archives of Earth surface conditions
Understanding mountains through their detritus

EDUCATION

2006 Ph.D. in Geological Sciences, Cornell University, Ithaca, NY
1998 B.S. in Geology and Geol. Oceanography, University of Rhode Island, Kingston, RI

PRESENT POSITIONS

7/2015 -Present Associate Professor and Associate Chair, Department of Earth Sciences,
Syracuse University, Syracuse, NY, USA

7/2020 - Present Visiting Scientist, Institute of Geosciences, University of Wrocław, Poland

PREVIOUS APPOINTMENTS

9/2019-3/2020 Fulbright Scholar/Visiting Scientist, Institute of Geological Sciences, University
of Wrocław, Poland
1/2009 - 6/2015 Assistant Professor of Earth Sciences, Dept. of Earth Sciences, Syracuse
University, Syracuse, NY, USA
01/2008-12/2008 Alexander von Humboldt Fellow, Institute for Earth and Environmental Science,
Universität Potsdam, Potsdam, Germany
11/2006-12/2008 Research Associate, Department of Earth and Environmental Sciences,
University of Rochester
11/2006-11/2007 NSF International Research Fellow, Argentine Institute for Glaciology and
Environmental Science (IANIGLA) Mendoza, Argentina
11/2005-10/2006 Postdoctoral Research Associate, Department of Earth and Environmental Sci-
ences, University of Rochester

TEACHING (dual numbers denote cross-listed undergrad/grad courses)

EAR 203 *Earth System Science* (~ 60 students, spring semesters)
EAR 403/603 *Geomorphology* (~ 10 students, fall semesters)
EAR 410/610 *Applications of GIS in the Earth Sciences* (~10-15 students, spring semesters)
EAR 443/643 *Current topics in Geomorphology* (~ 5 students, offered infrequently)

HONORS

Fellow of the Geological Society of America (elected in 2018)

FELLOWSHIPS and RESEARCH GRANTS

Awarded: (Total at SU with Hoke as lead PI, \$814 K; Total at SU (PI + coPI, \$953 K; career total \$1.3 M):

- 2020-2022: Polish Narodowe Centrum Nauki (National Science Center) OPUS program: *Chronology and rate of valley deepening in the Sudetes and Tatra Mountains determined through cosmogenic nuclide burial dating of cave sediments.* budget 994,000 PLN (~\$260 k), University of Wrocław, **G. Hoke**, PI
- 2020 US Fulbright Core Program for Academics 2-month extension (\$6,700, awarded but not executed due to COVID-19 pandemic)
- 2019-2020 US Fulbright Core Program for Academics 9-month research/teaching fellowship at the University of Wrocław, Poland (\$36,000)
- 2014-2016: NSF Tectonics and Geomorphology and Land Use Dynamics EAR-1463709 (\$147,053): EAGER: *Definitive Proof-of-Concept for Cosmogenic Nuclide Measurement of Paleoelevation*
- 2013: Alexander von Humboldt Foundation three-month research fellowship for program alumni
- 2013-2016: NSF EAR Low-Temperature Geochemistry and Geobiology EAR-1251966 (\$182,227 SU Budget; total budget ~ \$347,000): *Collaborative Research: Interpreting clumped isotope temperatures and $\delta^{18}\text{O}$ records from pedogenic carbonate: influence of climate, seasonality, and elevation* (**G. Hoke**, PI; co-PI: K.W. Huntington, Univ. of Washington)
- 2013-2015: NSF EAR Hydrologic Sciences award EAR-1313522 (\$95,574): *RAPID: Developing sensitive tests for detecting water chemistry changes associated with shale bed methane production in the Appalachian Basin* (L.K. Lautz, PI; co-PIs: **G.D. Hoke**, Z. Lu, S.D. Samson and D.I. Siegel)
- 2012: Syracuse University Provost's Office and Dean of the College of Arts and Sciences (\$20,000): *Developing sensitive tests for detecting contamination associated with shale bed methane production in the Appalachian Basin: A pilot project in New York's Southern Tier* (**G. Hoke**, PI; co-PIs: L. K. Lautz, Z. Lu and D. I. Siegel co-PIs)
- 2012-2015: American Chemical Society-Petroleum Research Fund (\$100,000): *Evaluating the mechanisms for episodic filling and erosion in wedge-top and proximal foreland environments in the Precordillera, San Juan Province, Argentina.*
- 2012: NSF EAR Instrumentation and Facilities EAR-1128877 (\$88,098): *Early Career: Acquisition of an Isotopic Liquid-Water Analyzer for Hydrology and Earth Science Research and Education at Syracuse University* (L.K. Lautz, PI; co-PIs: **G. Hoke** and Z. Liu)
- 2010-2014: NSF Tectonics Program award EAR-1019427 (\$365,182 SU Budget; total budget ~ \$426,000) Collaborative Research: *Basin Evolution and Elevation History of the SE Margin of the Tibetan Plateau: Constraints on the Timing and Mechanisms of Surface Uplift* (**G. Hoke** PI; co-PI: C.N. Garzione, U. Rochester)
- 2006-2010: NSF International Research Fellowship Program OISE-0601957 (\$122,662): *Rock deformation events, range elevation change and sedimentary basin filling in the Andes Mountains between 34-30°S latitude*
- 2007-2008: Alexander von Humboldt Fellowship (~ €50,000)

PUBLICATIONS (h-index = 22 in ISI web of science, total citations > 1800; h-index = 27 in Google Scholar with > 2600 citations – [Google Scholar Profile](#))

(*) denotes student or postdoc I supervised directly

Manuscripts in review or in revision:

- [60] *Pérez Consuegra, N., **Hoke, G.D.**, Fitzgerald, P.G., Mora, A., Sobel, E.R., and Glodny, J., in review, Late Miocene–Pliocene onset of fluvial incision of the Cauca River Canyon in the tropical Northern Andes: *Geological Society of America Bulletin*
- [59] *Perez Consuegra, N., Ott, R., **Hoke, G.D.**, Galve, J.P., Pérez-Peña, V. in review, Topographic response to variations in slab geometry, climate and drainage reorganization in the Northern Andes of Colombia: *Global and Planetary Change*
- [58] Bermúdez, M.B., **Hoke, G.D.**, Flantua, S.G.A., Parada, A., Vargas, I.M., Hoorn, C., (in review), Tectonics and relief evolution as sculpting agents of biogeographical districts in the tropical Andes: *Geochemistry, Geophysics, Geosystems*
- [57] Kelson, J.R., Huntington, K.W., Breecker D.O., Gallagher, T.M. and **Hoke, G.D.**, in review, The Timing of Soil Carbonate Precipitation is Sensitive to Rainfall and Plant Activity in Numerical Modeling: Implications for Preserved Isotope Geochemistry: *Earth and Planetary Science Letters*
- [56] Campbell, A., Lautz, L.K. and **Hoke, G.D.** (in review), Temporal changes in domestic water well methane reflect shifting sources of groundwater: Implications for evaluating contamination: *Environmental Science and Technology*
- [55] *Pérez Consuegra, N., **Hoke, G.D.**, Mora, A., Sobel, E. R., Sandoval, J. R., Glodny, J., Valencia, V., Fitzgerald, P.G., Parra, M., Zapata, S., (in review), Channel steepness and hillslope gradient correlate with (U–Th–Sm)/He ages along the humid eastern margin of the tropical Northern Andes and suggest a tectonic control on long-term rates of erosion: *Tectonics*

Invited Commentaries (not peer reviewed)

- [47] **Hoke, G.D.**, 2018, Geochronology transforms our view of how Tibet's southeast margin evolved, *Geology*, doi:10.1130/focus012018.1

Peer-reviewed articles

- [54] *Pérez Consuegra, N., Hoyos, N., Restrepo, J.C, Escobar, J., **Hoke, G.D.**, 2021, Contrasting climate controls on the hydrology of the mountainous Cauca River and its associated sedimentary basin: implications for interpreting the sedimentary record: *Geomorphology*
- [53] Lossada, A., Suriano, J., Giambiagi, L., Fitzgerald, P.G., **Hoke, G.D.**, Mescua, J., Tedesco, A., Aradún, G., Bordese, S., 2020, Cenozoic exhumation history at the core of the Andes at 31.5°S revealed by apatite fission track thermochronology, *Journal of South American Earth Sciences*, doi:10.1016/j.jsames.2020.102751
- [52] Li, S., Su, T., Spicer, R., Xu, C., Sherlock, S., Halton, A., **Hoke, G.**, Tian, T., Zhang, S., Zhou, Z., Deng, C., and Zhu, R., 2020, Oligocene deformation of the SE margin of Tibet related to the extrusion of Indochina: *Tectonics*, doi:10.1029/2019TC005974
- [51] Szczygiel, J., Hercman, H., **Hoke, G.**, Gąsiorowski, M., Błaszczyk, M., Sobczyk, A., 2020, No valley deepening of the Tatra Mountains during the last glacial maximum: *Geology*, <https://doi.org/10.1130/G47635.1>

- [50] Kelson, J., Huntington, K.W., Breecker, D.O., Burgener, L., Gahlleger, T., **Hoke, G.D.** and Peterson, S., 2020, A proxy for all seasons? A synthesis of clumped isotope data from Holocene soil carbonates: *Quaternary Science Reviews*, doi: 10.1016/j.quascirev.2020.106259
- [49] *Lossada, A.C., **Hoke, G.D.**, Giambiagi, L.B., Fitzgerald, P.G., Mescua, J.F., Suriano, J. and Aguilar, A., 2020, Detrital thermochronology reveals major middle Miocene exhumation of the eastern flank of the Andes predates the Pampean flat-slab (33°-33.5°S): *Tectonics*, doi: 10.1029/2019TC005764
- [48] Nie, J., Ruetenik, G.A., Gallagher, K., **Hoke, G.D.**, Garzione, C.N., Wang, W., Stockli, D., Stevens, T., Hu, X., Wang, Y., Wang, Z., Ji, S., Liu, S., 2018, Middle Miocene climate optimum results in rapid downcutting of the Mekong River: *Nature Geoscience*, doi: 10.1038/s41561-018-0244-z
- [46] Schildgen, T.F. and **Hoke, G.D.**, 2018, Geomorphic, structural, and geochemical signatures of topographic growth in the Central Andes, *Elements*, doi:10.2138/gselements.14.4.231
- [45] *Lossada A.C., Giambiagi L., **Hoke G.**, Mescua J., Suriano J., Mazzitelli M., 2018, Cenozoic Uplift and Exhumation of the Frontal Cordillera Between 30° and 35° S and the Influence of the Subduction Dynamics in the Flat Slab Subduction Context, South Central Andes. In: *Folguera A. et al. (eds) The Evolution of the Chilean-Argentinean Andes*. Springer Earth System Sciences. Springer, Cham p. 387-409. doi:10.1007/978-3-319-67774-3_16
- [44] Ruetenik, G., **Hoke, G.D.** Moucha, R. and *Val P., 2018, Regional Landscape Response to Wedge-Top Basin Formation: Effects of Low-Erosion Waves: *Basin Research* doi:10.1111/bre.12295
- [43] Liu-Zeng, J., Zhang, J., *McPhillips, D., Reiners, P., Wang, W., Pike, R., Zeng, L., **Hoke, G.D.**, Xie, K., Xiao, P., Zheng, D., and Ge, Y., 2018, Multiple episodes of fast exhumation since Cretaceous in the Three Rivers region, SE Tibet, revealed by low-temperature thermochronology: *Earth and Planetary Science Letters*: doi: 10.1016/j.epsl.2018.03.011
- [42] Wang, P., Zheng, H., Liu, S. and **Hoke, G.D.**, 2018, Late Cretaceous drainage reorganization of the Middle Yangtze: *Lithosphere*: doi:10.1130/L695.1
- [41] *Wissink, G.K., Wilkinson, B.H. and **Hoke, G.D.**, 2018, Strengths and limitations of Multi-Dimensional Scaling in detrital zircon studies: examples from platform, basin, and passive margin settings of North America: *Lithosphere*: doi:10.1130/L700.1
- [40] Buelow, E.K., Suriano, J., Mahoney, J.B., Kimbrough, D.L., Mescua, J.F., Giambiagi, L.B., and **Hoke, G.D.**, 2018, Sedimentologic and Stratigraphic Evolution of the Cacheuta Basin: Constraints on the development Of the Miocene retroarc foreland basin, South-Central Andes: *Lithosphere*: doi: 10.1130/L709.1
- [39] *Val, P., Venerdini, A.L., Ouimet, W.B., Alvarado, P., **Hoke, G.D.**, 2018, Tectonic control of erosion in the southern Central Andes: *Earth and Planetary Science Letters*: doi: 10.1016/j.epsl.2017.11.004
- [38] *Lossada, A.C., Giambiagi L.B., **Hoke, G.D.**, Fitzgerald, P.G., Criexell, C., Murillo, I., Mardonez, D., Velásquez, R., Suriano, J., 2017, Late Eocene Andean mountain building at 30°S: evidence from thermochronology: *Tectonics*: doi:10.1002/2017TC004674
- [37] Tang, M., Liu-Zeng, J., **Hoke, G.D.**, Xu, Q., Wang, W., Li, Z., Wang, W., 2017, Paleoelevation reconstruction of the Paleocene-Eocene Gonjo basin, SE-central Tibet: *Tectonophysics*, doi: 10.1016/j.tecto.2017.05.018
- [36] Hren, M.T., Wang, C., **Hoke, G. D.**, Liu-Zeng, J., Garzione, C.N., 2017, Soil n-alkane δ D and Glycerol Dialkyl Glycerol Tetraether (GDGTs) distributions along an altitudinal transect from Southwest China: Evaluating organic molecular proxies for paleoclimate and paleoelevation: *Organic Geochemistry*, doi: 10.1016/j.orggeochem.2017.01.006
- [35] *Val P.F., **Hoke, G.D.**, 2016, A practical tool for examining paleo-erosion rates using cosmogenic radionuclides: examples from hypothetical scenarios and data: *Geochemistry, Geophysics, Geosystems*, doi: 10.1002/2016GC006608

- [34] *Wissink, G.K., **Hoke, G.D.**, Garzione, C.N. and Liu-Zeng, J., 2016, Temporal and spatial patterns of sediment routing across the southeast margin of the Tibetan Plateau: insights from detrital zircon: *Tectonics*, DOI: 10.1002/2016TC004252
- [33] *Wissink, G.K. and **Hoke, G.D.**, 2016, Eastern margin of Tibet supplies most sediment to the Yangtze River: *Lithosphere*, doi: 10.1130/L570.1
- [32] *Val, P.F., **Hoke, G.D.**, Fosdick, J.C. and Wittmann, H., 2016, Reconciling tectonic shortening, sedimentation and spatial patterns of erosion from ¹⁰Be paleo-erosion rates in the Argentine Pre-cordillera: *Earth and Planetary Science Letters*: doi: 10.1016/j.epsl.2016.06.015
- [31] Ruetenik, G.A., Moucha, R., and **Hoke, G.D.**, 2016, Landscape response to changes in dynamic topography, *Terra Nova* doi: 10.1111/ter.12220
- [30] Burgener, L.K., Huntington, K.W., **Hoke, G.D.**, Schaur, A., *Ringham, M.C., Latorre, C., Diaz, F., 2016, Variations in soil carbonate formation and seasonal bias over > 4 km of relief in the western Andes (30 °S) revealed by clumped isotope thermometry: *Earth and Planetary Science Letters*
- [29] *Ringham M.C., **Hoke, G.D.**, Huntington, K.W., Aranibar, J.N., 2016, Influence of vegetation type and site-to-site variability on soil carbonate clumped isotope records, Andean piedmont of Central Argentina (32-34°S): *Earth and Planetary Science Letters*, v. 440, p. 1-11, doi: 10.1016/j.epsl.2016.02.003
- [28] Giambiagi, L., Mescua, J., Bechis, F., **Hoke, G.**, Suriano, J., Spagnotto, S., et al. 2016. Cenozoic Orogenic Evolution of the Southern Central Andes (32–36°S). In *Growth of the Southern Andes* (pp. 63–98). Springer International Publishing, doi:10.1007/978-3-319-23060-3_4
- [27] *McPhillips, D., **Hoke, G. D.**, Liu-Zeng, J., Bierman, P. R., Rood, D. H., & Niedermann, S., 2016, Dating the incision of the Yangtze River gorge at the First Bend using three-nuclide burial ages. *Geophysical Research Letters*, doi:10.1002/2015GL066780
- [26] Christian, K. M., Lautz, L. K., **Hoke, G. D.**, Siegel, D. I., Lu, Z., & Kessler, J., 2016, Methane occurrence is associated with sodium-rich valley waters in domestic wells overlying the Marcellus shale in New York State: *Water Resources Research*, doi: 10.1002/2015WR017805
- [25] Sepúlveda, S.A., Giambiagi, L.B., Moreiras, S.M., Pinto, L., Tunik, M., **Hoke, G.D.**, and Farías, M., 2015, Geodynamic processes in the Andes of Central Chile and Argentina: an introduction. in Sepulveda et al. Eds, *Geodynamic Processes in the Andes of Central Chile and Argentina*, Geological Society of London Special Publications 399, doi:10.1144/SP399.21
- [24] Lu, Z., Hummel, S., Lautz L., **Hoke, G.**, Zhou, X., Leone, J., Siegel, D., 2014, Iodine as a sensitive tracer for detecting influence of organic-rich shale in shallow groundwater: *Applied Geochemistry*, doi:10.1016/j.apgeochem.2014.10.019
- [23] **Hoke, G.D.**, Giambiagi, L.B., Garzione, C.N., Mahoney, J.B., Strecker, M.R., 2014, Neogene Paleoelevation of intermontane basins in a narrow, compressional mountain range, *Earth and Planetary Science Letters*, v. 406C, p. 153-164. doi:10.1016/j.epsl.2014.08.032
- [22] Xu, Q, **Hoke, GD**, Ding, L, Liu-Zeng, J., Wang, W, Yang, Y, Zhou, X., 2014, Stable isotopes of surface water across the Longmenshan Mountains Margin of the eastern Tibetan Plateau: implications for paleo-elevation reconstructions: *Geochemistry, Geophysics, Geosystems*, v. 15(8) p. 3416-3429. doi:10.1002/2014GC005252.
- [21] Lautz, L.K., **Hoke, G.D.**, Lu, Z., Siegel, D.I., Christian, K., Kessler, J. and *Teale, N.G.,, 2014, Using Discriminant Analysis to Determine Sources of Salinity in Shallow Groundwater Prior to Hydraulic Fracturing: *Environmental Science and Technology*, v. 48, p. 9061-9069 doi:10.1021/es-502244v.
- [20] **Hoke, G.D.**, Liu-Zeng, J., Hren, M.T., *Wissink, G.K., Garzione, C.N., 2014, Stable isotopes reveal high southeast Tibetan Plateau Margin since the Paleogene: *Earth and Planetary Science Letters* v. 394, p. 270-278, doi: 10.1016/j.epsl.2014.03.007.

- [19] Giambiagi, L., Tassara, A., Mescua, J., Tunik, M., Alvarez, P., Godoy, E., **Hoke, G.**, Pinto, L., Spagnotto, S., Porras, H., Tapia, F., Jara, P., Bechis, F., García, V.H., Suriano, J., Pagano, S.D., 2014, Evolution of shallow and deep structures along the Maipo-Tunuyán Transect ($33^{\circ}40'S$): from the Pacific coast to the Andean foreland, in Sepulveda et al. Eds, *Geodynamic Processes in the Andes of Central Chile and Argentina*, Geological Society of London Special Publications 399, doi:10.1144/SP399.14.
- [18] **Hoke, G.D.**, *Graber, N.R., Mescua, J.F., Giambiagi, L.B., Fitzgerald, P.G., Metcalf, J.R., 2014, Near pure surface uplift of the Argentine Frontal Cordillera: insights from (U-Th/He) thermochronology and geomorphic analysis, in Sepulveda et al. Eds, *Geodynamic Processes in the Andes of Central Chile and Argentina*, Geological Society of London Special Publications 399. doi:10.1144/SP399.4.
- [17] **Hoke, G.D.**, Schimtz, M.D. and Bowring S.A., 2014, An ultrasonic method for isolating non-clay components from clay-rich material: *Geochemistry, Geophysics, Geosystems*, v. 15, p. 492-498, doi: 10.1002/2013GC005125.
- [16] **Hoke, G.D.**, Aranibar, J.N., Viale, M., Araneo, D.C., Llano, C., 2013, Seasonal moisture sources and the isotopic composition of precipitation, rivers and carbonates across the Andes at $32.5 - 35.5^{\circ}S$: *Geochemistry, Geophysics, Geosystems*, v. 14, p. 962-978, doi: 10.1002/ggge.20045
- [15] Peters, N.A., Huntington, K.W., **Hoke, G.D.**, 2013, Hot or not? Temperature bias in pedogenic carbonate formation revealed by clumped isotope thermometry: *Earth and Planetary Science Letters*, v. 361, p. 208-218, doi:10.1016/j.epsl.2012.10.024.
- [14] Giambiagi, L., Mescua, J., Bechis, F., Tassara, A., **Hoke, G.**, 2012, Thrust belts of the southern central Andes: along-strike variations in shortening, topography, crustal geometry, and denudation: *Geological Society of America Bulletin*, v. 124, p. 1339-1351; doi: 10.1130/B30609.1.
- [13] *Walcek, A.A. and **Hoke, G.D.**, 2012, Surface uplift and erosion of the southernmost Argentine Precordillera, *Geomorphology*, v. 153-154, p. 156-168, doi:10.1016/j.geomorph.2012.02.021
- [12] Ramezani, J., **Hoke, G.D.**, Fastovsky, D.E., Bowring, S.A., Therrien, F., Dworkin, S.I., Atchley, S.C. and Nordt, L.C., 2011, High-precision U-Pb zircon geochronology of the Late Triassic Chinle Formation, Petrified Forest National Park (Arizona, USA): Temporal constraints on the early evolution of dinosaurs: *Geological Society of America Bulletin*, v. 123, p 2142-2159, doi: 10.1130/B30433.1
- [11] Ruskin, B.G., Dávila, F.M., **Hoke, G.D.**, Jordan, T.E., Astini, R.A. and Alonso, R, 2011 Stable isotope composition of middle Miocene carbonates of the Frontal Cordillera and Sierras Pampeanas: Did the Paranaense seaway flood western and central Argentina?: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 308 p. 293-303, doi:10.1016/j.palaeo.2011.05.033.
- [10] Jordan, T.E., Nester, P. L., Blanco, N., **Hoke, G. D.**, Davila, F. M., and Tomlinson, A.J., 2010, Uplift of the Altiplano-Puna Plateau: A view from the west: *Tectonics*, v. 29, p. TC5007, doi: 10.1029/2010TC002661.
- [9] **Hoke, G.D.**, Garzione, C.N., Araneo, D.C., Latorre, C., Strecker, M.R., and *Williams, K.J., 2009, The stable isotope altimeter: Do Quaternary pedogenic carbonates predict modern elevations?: *Geology*, v. 37, p. 1015-1018, doi: 10.1130/G30308A.1
- [8] Garzione, C. N., **Hoke, G. D.**, Labarkin, J. C., Withers, S., MacFadden, B. J., Ghosh, P., and Mulch, A., 2008, Rise of the Andes: *Science*, v. 320, p. 1304-1307. 10.1126/science.1148615
- [7] **Hoke, G. D.**, and Garzione, C. N., 2008, Paleosurfaces, paleoelevation, and the mechanisms for the latest Miocene topographic development of the Altiplano Plateau: *Earth and Planetary Science Letters*, v. 271, no. 1-4, p. 192-201, doi:10.1016/j.epsl.2008.04.008
- [6] **Hoke, G. D.**, Isacks, B. L., Jordan T.E., Tomlinson, A.J., Blanco Pavez, N., and Razmezani, J., 2007, Geomorphic evidence for post-10 Ma uplift of the western flank of the central Andes $18^{\circ}30'22''S$: *Tectonics* v. 26, p.TC5021, doi:/10.1029/2006TC002082

- [5] Loveless, J. P., **Hoke, G. D.**, Allmendinger, R. W., Gonzalez, G., Isacks, B. L., and Carrizo, D. A., 2005, Pervasive cracking of the northern Chilean Coastal Cordillera: New evidence for forearc extension: *Geology*, v. 33, p. 973-976. doi:10.1130/G222004.1
- [4] Allmendinger, R. W., Gonzalez, G., Yu, J., **Hoke, G.** and Isacks, B., 2005, Trench parallel shortening in the northern Chilean forearc: tectonic and climatic Implications: *Geological Society of America Bulletin*, v.116, p. 89-104, doi: 10.1130/B25505.1
- [3] **Hoke, G. D.**, Isacks B. L, Jordan T. E. and Yu, J. S., 2004, A groundwater origin for the giant que-bradas of northern Chile: *Geology*, v. 32, p. 605-608. doi: 10.1130/G20601.1
- [2] **Hoke, G. D.** and Turcotte D. L., 2004, Weathering of stones due to dissolution: *Environmental Geology*, v. 46, p. 305-310. doi: 10.1007/s00254-004-1033-0
- [1] **Hoke, G.D.**, and Turcotte, D.L., 2002, Weathering and damage: *Journal of Geophysical Research-Solid Earth*, v. 107, p. 2210, doi:10.1029/2001JB001573

Abstracts (last 5 years)

2018

Campbell, A., Lautz, L., and **Hoke, G.D.** (2018) Are point-in-time observations of methane in domestic well waters representative of year-round conditions? Results of year-long monthly water quality sampling in the Marcellus play. Paper number 224-7 presented at the 2018 Annual Meeting of the Geological Society of America, doi: 10.1130/abs/2018AM-322712

Perez Consuegra, N, Mora, A and Hoke, G.D. (2018) Using tectonic geomorphology to understand the topographic evolution of the Colombian Andes. Paper number 242-9, presented at the 2018 Annual Meeting of the Geological Society of America, doi: 10.1130/abs/2018AM-323801

Nie, J., Ruetenik, G.A., Gallagher, K., **Hoke, G.D.**, Garzione, C.N., Wang, W., Stockli, D., Stevens, T., Hu, X., Wang, Y., Wang, Z. (2018) Middle Miocene climate optimum results in rapid downcutting of the Mekong River. Paper number 287-13, presented at the 2018 Annual Meeting of the Geological Society of America, doi: 10.1130/abs/2018AM-315266

Kelson, J.R., Huntington, K.W. Breecker D.O., Hoke, G.D. Burgener, L. and Gallagher, T. M. (2018) A synthesis of existing clumped isotope data reveals varied seasonal biases in soil carbonate accumulation. Paper number 222-11, presented at the 2018 Annual Meeting of the Geological Society of America, doi: 10.1130/abs/2018AM-319630

Slosson, J.R. and Hoke, G.D. (2018) Stream Gauge Data and Cosmogenic Radionuclides as Tools for Calculating the Useful Lifespan of Reservoirs in the Argentine Andes. Presented at the 2017 Fall Meeting of the American Geophysical Union, Washington D.C., 10-14 December 2018

2017

Ruetenik, G., Moucha, R., **Hoke, G.D.** and *Val, P. (2017) Regional Landscape Response to Wedge-Top Basin Formation, Abstract EP33B-1947 presented at the 2017 Fall Meeting of the American Geophysical Union, New Orleans, LA, 11-15 December 2017

Campbell, A., Lautz, L., and **Hoke, G.D.** (2017) Assessing How Water Type, Climate, and Landscape Position Correlate with Variability of Methane in Shallow Groundwater in the Marcellus Region. Abstract H53A-1432 presented at the 2017 Fall Meeting of the American Geophysical Union, New Orleans, LA, 11-15 December 2017

Liu, J., Zhang, J., *McPhillips, D, Reiners, P.W., Wang, W., Pik, R., Zeng, L., **Hoke, G.D.**, Xie, K., Xiao, P., Zheng, D., Ge., Y. (2017) Multiple episodes of fast exhumation since Late Cretaceous in the Three Rivers region, SE Tibetan Plateau, revealed by low-temperature thermochronology. Abstract T44B-07 presented at the 2017 Fall Meeting of the American Geophysical Union, New Orleans, LA, 11-15 December 2017

*Nair, J.N., **Hoke, G.D.**, Corbett, L.B. and Bierman, P.R. (2017) The cosmogenic isotope concentration of a Devonian sandstone as a measure of the glacial erosion on the northern edge of the Appalachian Basin, Paper number 51-4 presented at the 2017 Geological Society of American Annual Meeting, Seattle WA, doi: 10.1130/abs/2017AM-303091

Campbell, A., Lautz, L.K., **Hoke, G.D.**, Chien, N.P., and Burgess, C.S. (2017) Temporal variability of naturally occurring methane in shallow groundwater wells in the Marcellus Shale region. Paper number 66-4 presented at the 2017 Geological Society of American Annual Meeting, Seattle WA, doi: 10.1130/abs/2017AM-301117

Lautz, L.K., Siegel, D.I., Hoke, G.D. and Lu, Z, Diving into the deep end: reflection on Don Siegel's research, the debate around hydraulic fracturing of the Marcellus and methane in groundwater. Paper number 126-6 presented at the 2017 Geological Society of American Annual Meeting, Seattle WA, doi: 10.1130/abs/2017AM-301538

Suriano, J., Mahoney, J.B., Giambiagi, L., Aguilar, A., Lossada, A.C., Buelow, E.K., Kimbrough, D.L., Hoke, G.D. Mazzitelli, M.A., Gomez, G.A. (2017) Multidisciplinary studies of Andean synorogenic deposits, unraveling the uplift sequences in the transition zone between flat and normal subduction. Paper number 184-10 presented at the 2017 Geological Society of American Annual Meeting, Seattle WA, doi: 10.1130/abs/2017AM-307243

2016

*Val., P., Venerdini, A.L., Ouimet, W.B., Alvarado, P.M., and **Hoke G.D.** (2016) Surface uplift governs millennial and decennial erosion rates in the South-Central Andes, Abstract T31A-2890 presented at the 2016 Fall Meeting of the American Geophysical Union, San Francisco, CA, 12-16 December 2016

*Wissink, G.K, Hoke, G.D. and Wilkinson, B.H. (2016) Multidimensional scaling in provenance studies of platform, basin and passive margin successions of North America. Paper number 200-13 presented at the 2016 Geological Society of American Annual Meeting, Denver, CO doi: 10.1130/abs/2016AM-285993

Lautz, L.K., Christian, K. Hoke, G.D., Siegel, D.I., Lu, Z. and Kessler, J.D., Development of empirical models of natural methane occurrence in shallow groundwater overlying the Marcellus Shale using machine learning methods. Paper 299-13, presented at the 2016 Geological Society of American Annual Meeting, Denver, CO, doi: 10.1130/abs/2016AM-287291

Burgess, C.S., Lautz, L.K., Chien, N.P., Hoke, G.D., Leonte, M., Kessler, J.D., Christian, K, Siegel D.I. and Lu, Z. (2016) Temporal patterns of naturally occurring methan levels in domestic water wells overlying the Marcellus Shale in New York, Paper 299-10 presented at the 2016 Geological Society of American Annual Meeting, Denver, CO, doi: 10.1130/abs/2016AM-286473

Nie, J., Wang, W., Gallagher, K., Garzione, C, **Hoke, G.D.**, Stockli, D.F., Sevens T. (2016) Birth of the Mekong River reveals top-down forcing for fluvial incision. Paper number 347-17 presented at the 2016 Geological Society of American Annual Meeting, Denver, CO doi: 10.1130/abs/2016AM-285246

2015

*Val, P. F., **Hoke, G. D.**, Fosdick, J. C., Wittmann, H. (2015), Dynamics of erosion in a compressional mountain range revealed by ^{10}Be paleoerosion rates, Abstract T12B-04 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (oral)

*McPhillips, D., **Hoke, G. D.**, Niedermann, S., Wittmann, H. (2015), Surface Uplift Rate Constrained by Multiple Terrestrial Cosmogenic Nuclides: Theory and Application from the Central Andean Plateau, Abstract T12B-04 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (oral)

*McPhillips, D. **Hoke, G.**, Rood, D., Bierman, P. (2015), Incision of the Yangtze River at the First Bend Determined by Three-Nuclide Burial Dating (Invited), Abstract T24B-02 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December.

Hoke, G. D., *McPhillips, D., Giambiagi L. B., Garzione, C. N., Mahoney, J. B., Stecker, M. R. (2015) ,Marked spatial gradient in the topographic evolution of the Andes spanning the Chilean flat-slab transition: evidence from stable isotope paleoaltimetry and zircon double dating, T34A-05 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (oral)

Hren, M. T., **Hoke, G. D.**, Garzione, C. N., and Liu, J. (2015), Biomarker isotope and soil tetraether records of the paleotopographic and paleoenvironmental history of the SE margin of Tibet (Invited), Abstract PP21A-2213 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (oral)

Burgener, L. K., Huntington, K. W., **Hoke, G. D.**, Schauer, A., *Ringham, M., Latorre Hidalgo, C. Diaz, F. (2015), Clumped Isotope Thermometry Reveals Variations in Soil Carbonate Seasonal Biases Over >4 km of Relief in the Semi-Arid Andes of Central Chile, Abstract T12B-07 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December.

*Lossada, A. C., Mardómez, D., Suriano, J., **Hoke, G. D.**, Fitzgerald, P. G., Mahoney, J. B., Giambiagi, L. B., Aragon, E. (2015), Uplift Sequence of the Main Morphostructural Units of the South Central Andes at 30°S: Insights from a Multidisciplinary Approach. Abstract T23B-2931 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (poster)

Giambiagi, L. B., Tassara, A., Mescua, J. F., Suriano, J., **Hoke, G.D.**, Mahoney, J. B. (2015), Upper-crustal Stress Field Variations During the Building of the Central Andes: Constraints on the Activation/deactivation of Megadetachments (Invited), Abstract T34A-01 presented at 2015 Fall Meeting, AGU, San Francisco, CA, 14-18 December. (oral)

Ruetenik, G. A., Moucha, R., **Hoke, G.D.**, 2015, Dynamic Topography, Stream Capture, And The Sedimentary Record, Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.42 (oral)

*Wissink, G.K., Hoke, G.D., 2015, No Cenozoic Connectivity Between Upper Yangtze River And Red River: Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 506 (oral)

*Val, P.F., Hoke, G. D., 2015, Surface Uplift Of The Frontal Cordillera At 30.5°-31°S Constrained Through River Profile Analysis Of The Castaño And Calingasta Catchments, South-Central Argentina: Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p. 790 (poster)

*Ringham, M. C.; Hoke, G. D. and Huntington, K.W., 2015, Timing Of Pedogenic Carbonate Formation In Arid Soils In Relation To Clumped Isotope Temperature Records: Geological Society of America Abstracts with Programs. Vol. 47, No. 7, p.597 (poster)

Moucha, R., Ruetenik, G.A., **Hoke, G.D.** Rovere, A., 2015, Interplay between dynamic topography and flexure along the US Atlantic passive margin: Insights from landscape evolution modeling 2015 EGU General Assembly Conference Abstracts 17, 8034 (oral)

Ruetenik, GA, Moucha, R, **Hoke, G.D.**, 2015, Landscape response to changes in dynamic topography 2015 EGU General Assembly Conference Abstracts 17, 8045 (oral)

2014

Hoke, G.D., Lui-Zeng, J., Hren, M.T., *Wissink, G.K., Garzione, C.N., 2014, The Cenozoic elevation history of the southeast margin of the Tibetan Plateau (invited): 2014 AGU Fall Meeting, San Francisco, CA.

Hoke, G.D., *McPhillips, D.F., Liu-Zeng, J., Bierman, P.R., Rood, D.H., 2014, Evolution of the paleolandscapes(s) of Yunnan, China: implications from Be-10 erosion rates and river channel morphology: 2014 AGU Fall Meeting, San Francisco, CA.

McPhillips, D.F., **Hoke, G.D.**, van Soest, M.C., Hodges, K.V., 2014, Exhumation of the Argentine Andes, 32°- 34° S: detrital (U-Th)/He and U-Pb zircon double dating: 2014 AGU Fall Meeting, San Francisco, CA.

*Wissink, G. and **Hoke, G.D.**, 2014, Removing Complications of a Dominant Broad Age Spectrum Source: A New Approach to the Mixing of Detrital Zircons: 2014 AGU Fall Meeting, San Francisco, CA.

*Val, P. and **Hoke, G.D.**, 2014, Transient fluvial incision and spatial distribution of active rock uplift in the Uspallata-Calingasta-Iglesia Valley, Central Argentina: 2014 AGU Fall Meeting, San Francisco, CA.

*Ringham, M.C., **Hoke, G.D.**, Huntington, K.W., Aranibar, J.N., 2014, Influence of environment on soil carbonate clumped isotope records, Andean piedmont of Central Argentina (33-34°S): 2014 AGU Fall Meeting, San Francisco, CA.

Liu-Zeng, J., Xiao, P. **Hoke, G.D.**, Reiners, P.W., Glotzbach, C., *McPhillips, D.F., Pik, R., Zeng, L., Xie, K., Yu, 2014, Preliminary Results of Low-temperature Thermochronology in the Three Rivers Region, SE Tibetan Plateau: 2014 AGU Fall Meeting, San Francisco, CA

Ruetenik, G., Moucha, R., and **Hoke, G.D.**, 2014, Landscape Response to Changes in Dynamic Topography on the U.S. Atlantic Passive Margin: 2014 AGU Fall Meeting, San Francisco, CA.

Christian K., Lautz, L.K., **Hoke, G.D.**, Lu, Z., Siegel, D.I., Kessler, J., 2014 Spatial Parameters Controlling Salinity and Dissolved Methane Concentrations in Private Wells Prior to Hydraulic Fracturing:): 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014) oral presentation (12 min)

Huntington, K.W., Lechner, A.R., Burgener, L.K. and **Hoke, G.D.**, 2014, Impact of carbonate depositional setting and seasonality on clumped isotope records of topography and climate (invited): 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014)

Mahoney, J.B., Kimbrough, D.L., **Hoke, G.D.**, Mescua, J.F., Giambiagi, L.B., Buelow, E.K., Hutter, A., Leidel, A., 2014, Cuenca Uspallata: An Intermontane Basin Records Episodic Uplift Of The Cordillera Frontal And Precordillera In The Late Miocene: 2014 GSA Annual Meeting in Vancouver, British Columbia (19–22 October 2014) Poster

Huntington, K.W., Lechner, A.R., **Hoke, G.D.**, Burgener, L.K., Breecker, D.O. and Sweeney, M., 2014, Clumped Isotope Paleothermometry in Soil Carbonate (invited), V.M Goldschmit Conference, 8-13 June, Sacramento, CA

2013

Hoke, G.D., *Wissink, G.K., Liu-Zeng, J., Hren, M.T., Garzione, C.N., 2013, The elevation history of SE Tibet and its implications (*Invited Keynote Presentation*): Evolution of Asian River Systems, 2013 IGCP 581 Meeting; Hanoi, Vietnam

Burgener, L.K., Huntington, K.W., **Hoke, G.D.**, Schauer, A.J., Samek, K. 2013, Applications of clumped-isotope thermometry: Precipitation season as a control on the timing of pedogenic carbonate growth in the central Andes: 2013 AGU Fall Meeting, San Francisco, CA

Hren, M.T., **Hoke, G.D.**, Garzione, C.N., Liu, J., Wang, C., 2013, Organic molecular records of topography and climate: Modern biomarker isotope and soil tetraether calibrations and applications to the paleoenvironmental history of the SE margin of Tibet: 2013 AGU Fall Meeting, San Francisco, CA

Baldwin, S., Moucha, R., Fitzgerald, P.G., **Hoke, G.D.**, Bermudez, M.A., Webb, L.E., Braun, J., Rowley, D.B., Insel, N., Abers, G., Wallace, L.M., Vervoort, J.D., 2013, Linking mantle dynamics, plate tectonics and surface processes in the active plate boundary zones of eastern New Guinea (*Invited Presentation*): AGU Fall Meeting, San Francisco, CA

Moucha, R., Ruetenik, G.A., Braun, J., Guillocheau, F., **Hoke, G.D.**, 2013, Quantifying landscape evolution response to changes in dynamic topography (*Invited*): AGU Fall Meeting, San Francisco, CA

Lautz, L.K., **Hoke, G.D.**, Lu, Z, Siegel, D.I., 2013, Determining sources of elevated salinity in pre-hydraulic fracturing water quality data using a multivariate discriminant analysis model: AGU Fall Meeting, San Francisco, CA

*Wissink, G.K., **Hoke, G.D.**, 2013, Oligocene-early Miocene reorganization of paleodrainage along the southeastern margin of the Tibetan Plateau: Geological Society of America, Abstracts with Programs Vol. 45.

Hummel, S.T., Lautz, L.K., **Hoke, G.D.**, Siegel, D.I., Lu, Z. 2013, Iodine as a sensitive tracer for detecting the influence of organic-rich shale in shallow groundwater: Geological Society of America, Abstracts with Programs Vol. 45.

Ruetenik, G.A., Moucha, R., **Hoke, G.D.**, Braun, J., 2013, Quantifying landscape evolution response to changes in dynamic topography. : Geological Society of America, Abstracts with Programs Vol. 45.

Co-editorship on Special Volumes

Sepulveda, S.A., Giambiagi, L.B., Moreiras, S.M., Pinto L., Tunik, M, **Hoke, G.D.** and Farías, M. Eds, 2015, *Geodynamic Processes in the Andes of Central Chile and Argentina*. Geological Society of London Special Paper 399: The Geological Society, London, UK.

Nie, J., Horton, B.K. and **Hoke, G.D.** Eds., 2014, *Towards an improved understanding of uplift mechanisms and the elevation history of the Tibetan Plateau*: Geological Society of America Special Paper v. 507, Geological Society of America, Boulder, CO.

PRESS ON RESEARCH:

Project SWIFT:

Tompkins Weekly (10-16 Feb 2014)

Scranton Times (20 May 2013)

[Syracuse University Magazine \(Spring 2013\)](#)

[NPR Innovation Trail report on \(1 October 2012\)](#)

SE Tibet Research

[Live Science 25 April 2014](#)

Andean Research

Editor's highlight for Lossada et al. 2020 published in [EOS](#)

STUDENT AND POSTDOCTORAL SUPERVISION

Postdoctoral

Devin F. McPhillips (4/2013-12/2015) now at USGS in Pasadena, CA

Graduate Students

Nicolás Perez Consuegra (Ph.D. degree, expected spring 2021)

John R. Slosson (Ph.D. degree, expected spring 2021)

Micah Wiesner (M.S. 2020)

Jennifer N. Nair (M.S. 2018)

*Ana Lossada (Ph.D. 2018; University of Buenos Aires) now a CONICET postdoc

Pedro Val (Ph.D., 8/2016) now Professor at U. Ouro Preto (Brazil)

Gregory K. Wissink (Ph.D. 6/2016) now at TetraTech

Mallory C. Ringham (M.S., 5/2015) now in Ph.D. program at MIT/WHOI

Alina A. Walcek (MS, 5/2011) now in consulting

Nathan R. Gruber (MS, 9/2011) now a geologist for the State of New York

*co-supervised with Dr. Laura Giambiagi (CONICET, Argentina)

Ph.D. or M.S. committees (degree, Institution, Advisor, completion date):

Jack Hieptas (PhD, SU, Samson, 2012), Steven Riccio (MS, SU, Fitzgerald, 2012), Nathan Peters (MS, UW, Huntington, 2012), Julieta Nobile (PhD, U. Nac. Córdoba, Davila, 2013), Xuewei Zhang (PhD, SU, Scholz, 2015), Xiaoli Zhou (PhD, SU, Lu, 2016), Edward Milde (MS, SU, Fitzgerald, 2014), Gregory Ruetnick (PhD, SU, Moucha, 2017), Chilisa Shorten (PhD, SU, Fitzgerald, 2018), Kayla Christian (MS, SU, Lautz, 2015), Landon Burgener (Ph.D., UW, Huntington, 2018), Wanyi Lu (PhD, Z. Lu, 2020); Amanda Campbell (PhD, Lautz); Thomas Warfel (MS, Fitzgerald 2018); Ruta Basijokatie (PhD, Kelleher); M. Keith Paciga (MS, Moucha); April Langhans (PhD, Moucha); Lester Olivares (PhD, Cornell, Jordan); Jacob Rosenthal (PhD, Fitzgerald).

Undergraduate

Natalie G. Teale (dual major in Earth Sciences and Geography, 2013, Honors Capstone Thesis Director)
Gisela Reyna (Lic. en Geología, Universidad Nacional de Córdoba, Argentina, 10/2011)

INVITED KEYNOTE PRESENTATIONS

2019: 25th Latin America Colloquium (Hamburg, Germany)

2013: Evolution of Asian River Systems, 2013 IGCP 581 Meeting, Hanoi, Vietnam

INVITED COLLOQUIUM PRESENTATIONS (last 5 years)

2019: Geological Institute, Polish Academy of Science (Warsaw)

Ludwig Maximilian University München

University of Wrocław

Portland State University

Oregon State University

2017: University of Toronto Mississauga

2016: University of Connecticut

Cornell University

2015: West Virginia University

2014: Utrecht University, Utrecht, Netherlands

Universidad de Chile, Santiago, Chile

2013: Universität Potsdam, Potsdam, Germany

Universidad Nacional de Córdoba

Pontificia Universidad Católica de Chile

PROFESSIONAL SERVICE

Chair of the International Interdisciplinary Interest Group, Geological Society of America and member of the GSA International Committee (2017-2019)

Associate Editor – *Geosphere*

Member GSA decadal planning program task force (2018-2019)

Peer Review:

Journals: Nature Geoscience; Nature Communications; Science Advances; GSA Today, GEOLOGY; Geophysical Research Letters; Earth and Planetary Science Letters; G-Cubed; Geological Society of America Bulletin; Journal of Geophysical Research-*Earth Surface, Planets and Solid Earth*; Journal of the Geological Society of London; Terra Nova; Earth Surface Processes and Landforms; Basin Research; Tectonics; Lithosphere; Geosphere; Journal of South American Earth Sciences; Tectonophysics; Andean Geology; International Journal of Earth Sciences; German SFB 267 volume; Hydrologic Processes; Palaeogeography, Palaeoclimatology, Palaeoecology; Catena

Proposals: FONCyT Earth Sciences Division (NSF-like funding agency in Argentina); NSF EAR Tectonics Division; NSF EAR Sedimentary Geology and Paleobiology Division; NSF EAR Petrology and Geochemistry Division; NSF EAR Cyber Infrastructure; NSF EAR Integrated Earth Systems Program; Swiss NSF; FONDECyT (NSF-like agency in Chile); American Chemical Society, Petroleum Research Fund; National Geographic Research Grants; Graduate Women in Science fellowship program; Fondo Clemente Estable (Uruguay), NERC (UK), German Science Foundation (DFG).

Meetings:

2018: Co-convener (with E. Kirby and N. McQuarrie) of Geological Society of America Annual Meeting session T182: *The Cenozoic evolution of Tibet: How do we reconcile seemingly contradictory evidence?*

2016: Participant in NSF-sponsored “Future of Tectonics” workshop held in Madison, WI

2014: Co-convener (with M. Hren, J. Quade and K. Snell) of AGU Tectonophysics session: T29 *Measuring topographic growth through time.*

2011: Co-convener (with J. Nie) of session at Geological Society of America national meeting: T10 *Toward a Better Understanding of the Uplift History and Mechanisms of the Tibetan Plateau*

2010: Judge for outstanding student presentation awards at the AGU Fall Meeting

2009: Co-convener (with J. Saylor and A. Mora) of session at Geological Society of America national meeting: T68 *Uplift or Climate Change? Evaluating Surface Uplift and Deformation in Light of Climate Change in the Andes*

2006: Co-convener (with J. A. Rech and R. Amundson) of session at Geological Society of America National meeting: T36 *Surficial Processes at the Hyperarid Limit: Current Research in the Atacama Desert, Chile*

UNIVERSITY/COLLEGE SERVICE

Member of the Environment Sustainability and Policy steering committee (joint Integrated Learning Major between The College of Arts and Sciences and the Maxwell School; 2017-present)

Faculty Instructor in Earth Sciences for SU Project Advance’s Summer Institute for secondary school teachers (2013-present).

Member of Earth Sciences Chairperson search committee (spring 2013 and fall 2016)

DEPARTMENTAL SERVICE

Associate Department Chair (7/2017-7/2019; 7/2020-present)

Director of Graduate Studies (7/2015 – 6/2017)

Oversight of the installation of large format floor decals in Heroy Geology Laboratory (2016)

Member of Earth Sciences Curriculum Committee (1/2015-6/2017)

Head of Earth Sciences IT committee (1/2010 – 12/2015)

IT representative to the College of Arts and Sciences (1/2010 – 12/2015).

Member of Geophysics Faculty search committee (9/2010 - 4/2011)

Coordinator of the Dept. of Earth Sciences' weekly K.D. Nelson Seminar Series (5/2010 - 5/2012)

Faculty advisor to the Earth Sciences student Geology Club (AY 11-12)

LANGUAGES

English (native speaker), Spanish (fluent), German (EU level B1)

PROFESSIONAL ORGANIZATION MEMBERSHIP

Geological Society of America

American Geophysical Union

European Geosciences Union

National Speleological Society