

ALEX PULLEN

PERSONAL DATA

Associate Professor
Department of Environmental Engineering and Earth Sciences
Clemson University
Clemson, SC 29634
1 (864) 656-3276
apullen@clemson.edu

EDUCATION

- Ph.D., University of Arizona, 2010, Geosciences
- M.S., University of Arizona, 2006, Geosciences
- B.A., University of Arizona, 1999, Economics

PROFESSIONAL EXPERIENCE

- Clemson University, 2023–, Associate Professor
- Clemson University, 2017–2023, Assistant Professor
- University of Arizona, 2013–2017, Research Scientist, Geosciences
- University of Rochester, 2013–2015, Adjunct Assistant Professor
- University of Rochester, 2010–2013, Postdoctoral Fellow
- University of Arizona, 2010, Manager, Arizona LaserChron Center
- University of Arizona, 2001–2008, Research Scientist, Geosciences

MEMBERSHIPS

- Member, Geological Society of America, GSA (2004–)
- Regular Member, American Geophysical Union, AGU (2005–)
- Lifetime Member, Carolina Geological Society, CGS (2019)

HONORS AND AWARDS

- Exceptional Reviewer, GSA Bulletin (2018)
- Peter Coney Fellowship (2009)
- Galileo Circle Scholar (2009)
- ChevronTexaco Geology Fellowship (2007)
- ConocoPhillips Graduate Research Fellowship (2006)
- ChevronTexaco Geology Fellowship (2005)

PUBLICATIONS

Google Scholar H-Index: 38

Google Scholar i10-Index: 56

Refereed Journal Publications

(† denotes mentored Clemson student author; * denotes student author outside of Clemson, including prior to Clemson)

Published

1. Zhang, D., Wang, G., Pullen, A., Abell, J.T., Cheng, F., Shen, T., Ji, J., and Zhang, M., “A westerly dominated Early Cretaceous eolian system in the Hami Basin, NW China” in *Geological Society of America Bulletin*, doi.org/10.1130/B37436.1, (2025). **Impact Factor: 5.41**
2. Kapp, P., Pullen, A., Abell, J.T., and Zhang, L., “Wind erosion in northern China: Insights from the western Qaidam fold belt, Loess Plateau, and Hami Basin”, in *Earth-Science Reviews*, doi.org/10.1016/j.earscirev.2024.105037, (2024). **Impact Factor: 12.413**.
3. Liu, L., Zhang, L., Ding, L., Kapp, P., Ducea, M.N., Pullen, A., Xu, X., Zeng, D., Wang, C., Li, J., Xu, F., Yue, Y., Xie, J., and Huang, W., “Origin of the Miocene Sailipu ultrapotassic volcanic rocks in southern Tibet: Melting of Asian mantle pyroxenites triggered by eastward continental slab tearing of the thinned Greater India from thick Cratonic India” in *Geological Society of America Bulletin*, doi.org/10.1130/B37714.1 (2024). **Impact factor: 5.41**
4. Zhong, Y., Tan, N., Abell, J.T., Sun, C., Kaoth-Bahr, S., Ford, H., Herbert, T.D., Pullen, A., Horikawa, K., Struve, T., Weber, M. E., Yu, J., Clift, P.D., Larrasoña, J.C., Lu, Z., Yang, H., Bahr, A., Chen, T., Zhang, J., Wei, C., Xia, W., Yang, S., and Liu, Q. “Role of land-ocean interactions in stepwise Northern Hemisphere Glaciation” in *Nature Communications*, v. 15, p. 6711 (2024). **Impact Factor: 17.694**.
5. Ma, A., Hu, X., Li, X., Pullen, A., Garzanti, E., and Suzuki, N., “Timing of rifting of the Dongkaco microcontinent (Central Tibet) and implications for Neo-Tethyan evolution” in *Palaeogeography, Palaeoclimatology, Palaeoecology*, 638, p. 112054, (2024). **Impact Factor: 3.565**
6. *Stubbins, B., Leier, A.L., Barbeau, D.L., Pullen, A., Abell, J.T., Nie, J., Zárate, M.A., and Fidler, M.K., “Global climate forcing on the late Miocene establishment of the Pampean aeolian system in South America” in *Nature Communications*, 14, NCOMMS-23-25383B (2023). **Impact Factor: 17.694**
7. Abell, J.T., Winkler, G., Pullen, A., Kinsley, C.W., Kapp, P., Middleton, J.L., Pavia, F.J., McGee, D., Ford, H.L., and Raymo, M.E., 2023, “Decreasing East Asian dust production during the Quaternary: Long-term decoupling of gustiness and dustiness” in *Paleoceanography and Paleoclimatology*, 38, e2022PA004571, DOI: 10.1029/2022PA004571 (2023). **Impact Factor: 3.99**
8. Li, M., Nie, J., Li, Z., Pullen, A., Abell, J.T., Zhang, H., †McMechen, C.A., and Pan, B., “A middle Pleistocene to Holocene perspective on sediment sources for the Tenggar Desert”, China, in *Catena*, 228, p. 107–119 (2023). **Impact Factor: 6.367**
9. *Ma, A., Hu, X., Garzanti, E., Pullen, A., BouDagher-Fadel, M., Wang, J., Lai, W., and Xue, W., “Mid-Cretaceous exhumation of the Central Qiangtang Mountain Range as witnesses by Abushan continental redbeds” in *Tectonics*, 42 (3), p.e2022TC007520 (2023). **Impact Factor: 3.58**
10. Peng, W., Zhang, H., Pullen, A., Li, M., Pan, B., and Nie, J., “Stepwise increased spatial provenance contrast on the Chinese Loess Plateau over late Miocene-Pleistocene” in *Nature Communications Earth & Environment*, 4 (1), p. 60 (2023). **Impact Factor: 7.29**
11. Pullen, A., Barbeau, D.L., Leier, A.L., Abell, J., †Ward, M., †Bruner, A., and Fidler, M.K., “A westerly wind dominated Puna Plateau during deposition of upper Pleistocene loessic sediments in the subtropical Andes, South America” in *Nature Communications*, NCOMMS-21-24772A (2022). **Impact Factor: 14.92**
12. †Bruner, A., Leier, A.L., Barbeau, D.L., Pullen, A., Fidler, M.K., and Stubbins, B., “Detrital zircon provenance and transport pathways of Pleistocene-Holocene eolian sediment in the Pampean Plains, Argentina” in *Geological Society of America Bulletin*, B36267 (2022). **Impact Factor: 4.799**
13. †Corradino, J., Pullen, A., Leier, A.L., Barbeau, D.L., Scher, H.D., Weislogel, A., Bruner, A., Leckie, D., and Currie, L.D., “The trans-North America Bell River system during late Oligocene to early Miocene through investigation of Saglek Basin sediments in the Labrador Sea” in *Geological Society of America Bulletin*, B35903 (2022). **Impact Factor: 4.799**
14. DePietro, J., Pullen, A., and Krol, M., “Geologic History and Thermal Evolution in the Hinterland Region, Western Himalaya, Pakistan”, in *Earth Science Reviews*, 223, p. 103817 (2021). **Impact Factor: 12.41**
15. Zhang, L., Fan, W.M., Ding, L., Pullen, A., Ducea, M.N., Li, J.X., Wang, C., Xu, X.Y., and Sein, K., “Forced subduction initiation within the Neotethys: an example from the mid-Cretaceous Wuntho-Popa arc in Myanmar” in *Geological Society of America Bulletin*, doi.org/10.1130/B35818.1 (2021). **Impact Factor: 4.799**
16. Zhang, H., Li, G., Nie, J., Liu, X., Pullen, A., Peng, W., Zhang, H., “Spatially variable provenance of the Chinese Loess Plateau” in *Geology*, 49, p. 1155–1159 (2021). **Impact Factor: 5.399**

17. *Clinkscales, C., Kapp, P., Thomson, S., Wang, H., Laskowski, A., Orme, D.A., and Pullen, A., “Regional Structural Geology and Exhumation History of the Shanxi Rift and Tailangshan, North China” in *Tectonics*, 2020TC006416 (2021). **Impact Factor: 4.851**
18. Smeraglia, L., †Giuffrida, A., Grimaldi, S., Pullen, A., La Bruna, V., Billi, A., and Agosta, F., “Fault-controlled upwelling of low-T hydrothermal fluids tracked by travertines in a fold-and-thrust belt, Monte Alpi, southern Apennines, Italy” in *Journal of Structural Geology*, v. 144, p. 104276 (2021). **Impact Factor: 3.571**
19. Zhang, S., Jian, X., Pullen, A., Fu, L., Liang, H., Hong, D., and Zhang, W., “Tectono-magmatic events of the Qilian orogenic belt in northern Tibet: New insights from detrital zircon geochronology of river sands” in *International Geology Review*, 63, p. 917–940 (2021). **Impact Factor: 3.958**
20. *Zhang, D., Wang, G., Pullen, A., *Abell, J., Ji, J., and Shen, T., “Landscape evolution and development of low albedo eolian-modified unconsolidated gravel surfaces and yardangs in the Hami Basin, NW China” in *Geomorphology*, v. 368, p. 107355 (2020). **Impact Factor: 4.139**
21. *Abell, J.T., Rahimi, S.R., Pullen, A., Lebo, Z.J., Zhang, D., Kapp, P., Gloege, L., Ridge, S., Nie, J., and Winckler, G., “A quantitative model-based assessment of Plio-Pleistocene landscape evolution in the stony Hami Basin, China: Impacts on dust production in Eastern Asia” in *Geophysical Research Letters*, 47, e2020GL090064 (2020). **Impact Factor: 4.72**
22. Zhang, L., Fan, W., Ding, L., Pullen, A., Sun, Y., Li, J., Peng, T., Yue, Y., Cai, F., and Wang, C., “Quaternary volcanism in Myanmar: A record of Indian slab tearing in a transition zone from oceanic to continental subduction” in *Geochemistry, Geophysics, Geosystems*, v. 21, e2020GC00909 (2020). **Impact Factor: 3.624**
23. Pullen, A., *Banaszynski, M., Kapp, P., Thomson, S.N., Cai, F., “Exhumation of the western Chinese Altai Mountains during the Early Cretaceous with minimal exhumation since: a climate driven exhumation signal?” in *Journal of Asia Earth Sciences*, v. 197, p.104387 (2020). **Impact Factor: 3.449**
24. Jian, X.; Weislogel, A., and Pullen, A., “Formation and evolution of the East Kunlun orogen, northern Tibet: Evidence from detrital zircon U-Pb geochronology and Hf isotopes” in *Gondwana Research*, v. 83, doi.org/10.1016/j.gr.2020.01.015 (2020). **Impact Factor: 6.051**
25. *Abell, J.T., Pullen, A., Lebo, Z.J., Winckler, G., Kapp, P., Gloege, L., Metcalf, A., Nie, J., “A wind-albedo-wind feedback driven by landscape evolution” in *Nature Communications*, 11, 96, doi:10.1038/s41467-019-13661-w (2020). **Impact Factor: 14.919**
26. Jian, X.; Weislogel, A., and Pullen, A., “Triassic Sedimentary Filling and Closure of the Eastern Paleo-Tethys Ocean: New Insights from Detrital Zircon Geochronology of Songpan-Ganzi, Yidun and West Qinling flysch in Eastern Tibet” in *Tectonics*, DOI: 10.1029/2018TC005300 (2019). **Impact Factor: 3.884**
27. Ibáñez-Mejía, M., Pullen, A., Pepper, M., Urbani, F., Ghoshal, G., and Ibáñez-Mejía, J., “Use and abuse of quantitative detrital zircon U-Pb geochronology - A case from the Río Orinoco delta” in *Geology*, v. 46, p. 1019–1022 (2018). **Impact Factor: 5.006**
28. Pullen, A., Ibáñez-Mejía, M., Gehrels, G.E., Giesler, D., and Pecha, M., “Optimization of a laser ablation–single collector–inductively coupled plasma–mass spectrometer (Thermo Element2) for accurate, precise, and efficient zircon U-Th-Pb geochronology” in *Geochemistry, Geophysics, Geosystems*, 19, p. 3689–3705 (2018). **Impact Factor: 3.04**
29. Nie, J., Pullen, A., Garzzone, C.N., Peng, W., and Wang, Z., “Pre-Quaternary decoupling between Asian aridification and high dust accumulation rates” in *Science Advances*, aao5870 (2018). **Impact Factor: 14.22**
30. Pullen, A., Kapp, P., and Chen, N., “Development of stratigraphically-controlled eolian-modified unconsolidated gravel surfaces and yardang fields in the wind-eroded Hami Basin, northwestern China” in *Geological Society of America Bulletin*, 130, p. 630-648 (2017). **Impact Factor: 4.039**

Accepted/In Press

31. Zhong, Y., Zhiguo, L., Shi, X., Isson, T., Kender, S., Liang, Z., Swann, G.E.A., Du, J., Pullen, A., Weber, M.E., Du, J., Larrasoana, J.C., Jiang, Z., Zhang, J., Song, Y., González, F.J., Kaboth-Bahr, S., Li, H., Zhang, Q., Zhao, D., Cao, W., Liu, Q., “Enhanced phosphorus weathering contributed to Late Miocene cooling” in *Nature Communications*, NCOMMS-24-37611D. (Accepted) **Impact Factor: 16.6**

In Review/Submitted

32. Zhang, D., Wang, G., Abell, J.T., Pullen, A., Cheng, F., and Shen, T., in review, “Erosion and dust emission driven by alternatively episodic water and wind environments in the stony Hami Basin, East Asia”, in Geological Society of America Bulletin. **Impact Factor: 3.9.**
33. Liu, F., Nie, J., Zhang, Z., Shen, X., Abell, J.T., Pullen, A., Pan, B., Geng, H., and Ding, L., submitted, “Erosion “hotspot” of the Mekong River drainage system”, in Nature Communications Earth and Environment (COMMS-24-1610). **Impact Factor: 7.9.**
34. Ma, A., Hu, X., Li, X., Pullen, A., Garzanti, E., and Suzuki, N., in review, “Dongkaco microcontinent accretion and subduction transference, central Tibet” in Geological Society of America Bulletin. **Impact Factor: 5.41**
35. Ma, A., Yan, Z., Hu, X., Garzanti, E., Gerya, T., Pullen, A., Stern, R.J., and Lai, W., “Continental growth of the Himalayan-Tibetan orogen through Jurassic subduction transference” in Nature Communications, NCOMMS-24-28576. **Impact Factor: 17.694.**
36. Xu, W., Barbeau Jr., D.L., Pullen, A., Liu, F., Zhai, Q., and Xu, W., in review, “A possible link between Paleo-Tethyan Evolution and Carnian Pluvial Episode”, in Journal of Geophysical Research: Solid Earth, 2024JB030810. **Impact Factor: 3.9**

Prior to Clemson

37. *Li, L., Garzzone, C.N., Pullen, A., Li, Y., Zhang, P., “Late Cretaceous–Neogene basin evolution and topographic growth of the Hoh Xil Basin, Central Tibetan Plateau” in Geological Society of America Bulletin, 130, p. 499-521 (2018). **Impact Factor: 3.97**
38. Chapman, J.B., Gehrels, G.E., Ducea, M.N., Geisler, N., and Pullen, A., “A new method for estimating parent rock trace element concentrations from zircon” in Chemical Geology, v. 439, p. 59–70 (2016). **Impact Factor: 3.542**
39. *Li, L., Garzzone, C.N., Pullen, A., Chang, H., and Molnar, P.H., “Early–middle Miocene topographic growth of the northern Tibetan Plateau: Stable isotope and sedimentation evidence from the southwestern Qaidam basin” in Palaeogeography, Palaeoclimatology, Palaeoecology, v. 461, p. 201–213 (2016). **Impact Factor: 2.808**
40. Wang, C., Ding, L., Zhang, L.Y., Kapp, P., Pullen, A., and Yue, Y.H., “Petrogenesis of Middle–Late Triassic volcanic rocks from the Gangdese belt, southern Lhasa terrane: Implications for early subduction of Neo-Tethyan oceanic lithosphere” in Lithos, v. 262, p. 320–333 (2016). **Impact Factor: 4.133**
41. *Pepper, M., Gehrels, G.E., Pullen, A., Ibáñez-Mejía, M., Ward, K.M., and Kapp, P., “Magmatic History and Crustal Genesis of South America: Constraints from U-Pb ages and Hf isotopes of detrital zircons in modern rivers” in Geosphere, v. 12, p. 1532–1555, GES01315-1 (2016). **Impact Factor: 2.4**
42. Licht, A., Dupont-Nivet, G., Pullen, A., Kapp, P., Abels, H., Abell, J., Giesler, N., and Pecha, M., “Resilience of the Asian atmospheric circulation shown by Paleogene dust provenance” in Nature Communications, 7, p. 12390 (2016). **Impact Factor: 12.756**
43. Kar, N., Garzzone, C.N., Jaramillo, C., Shanahan, T., Carlotto, V., Pullen, A., Moreno, F., Anderson, V., Moreno, E., and Eiler, J., “Rapid regional surface uplift of the northern Altiplano plateau revealed by multiproxy paleoclimate reconstruction” in Earth and Planetary Science Letters, 447, p. 33-47 (2016). **Impact Factor: 4.782**
44. Licht, A., Pullen, A., Kapp, P., Abell, J., and Giesler, N., “Aeolian cannibalism: reworked loess as the main sediment source of the Chinese Loess Plateau” in GSA Bulletin, 128, p. 944-956 (2016). **Impact Factor: 4.212**
45. *Ibáñez-Mejía, M., Pullen, A., Arenstein, J., Gehrels, G.E., Valley, J., Ducea, M., Mora, A.R., Pecha, M., and Ruiz, J., “Unraveling crustal growth and reworking processes in complex zircons from orogenic lower-crust: The Precambrian Putumayo Orogen of Amazonia” in Precambrian Research, v. 267, p. 285–310 (2015). **Impact Factor: 4.27**
46. Chang, H., Li, L., Qiang, X., Garzzone, C.N., Pullen, A., and An, Z., “Magnetostatigraphy of Cenozoic deposits in the western Qaidam Basin and its implication for the surface uplift of the northern margin of the Tibetan Plateau” in Earth and Planetary Science Letters, v. 430, p. 271–283 (2015). **Impact Factor: 4.326**
47. Kapp, P., Pullen, A., Pelletier, J.D., Cai, F., and Russell, J., “From dust to dust: Quaternary wind erosion of the Mu Us Desert and Loess Plateau, China” in Geology, v. 43, p. 835–838 (2015). **Impact Factor: 4.548**

48. Pullen, A., Ibáñez-Mejía, M., Gehrels, G.E., Ibáñez-Mejía, J.C., and Pecha, M., “What happens when n= 1000? Creating large-n geochronological datasets with LA-ICP-MS for geologic investigations” in *Journal of Analytical Atomic Spectrometry*, 29, p. 971-980 (2014). **Impact Factor: 3.651**
49. Pullen, A., and Kapp, P., “Insights into Mesozoic tectonic history and the lithospheric structure of the Qiangtang terrane from investigating the Qiangtang metamorphic belt, central Tibet” in *Towards an Improved Understanding of Uplift Mechanisms and the Elevation History of the Tibetan Plateau*, Nie, J.S., Horton, B.K., and Hoke, G.D. (eds.), Geological Society of America Special Paper 507, chapter 4 (2014).
50. *Zhang, L., Ducea, M.N., Ding, L., Pullen, A., Kapp, P., and Hoffman, D., “Southern Tibetan Oligocene-Miocene adakites: A record of Indian slab tearing” in *Lithos*, v. 210, p. 209–223, (2014). **Impact Factor: 5.081**
51. *Li, L., Meng, Q., Pullen, A., Garzione, C.N., Wu, G., Wang, Y., Ma, S., Duan, L., “Late Permian–Middle Triassic backarc basin development in West Qinling, China” in *Journal of Asian Earth Sciences*, 87, p. 116–129 (2014). **Impact Factor: 3.13**
52. *Zhang, L.Y., Ding, L., Pullen, A., Xu, Q., Liu, D.L., Cai, F.L., Ducea, M., Kapp, P., Yue, Y.H., Lai, Q.Z., Chapman, A., Johnson, B., Taylor, M., “Age and geochemistry of western Hoh-Xil-Songpan-Ganzi granitoids, northern Tibet: Implications for the Mesozoic closure of the Paleo-Tethys Ocean” in *Lithos*, v. 190, p. 328–348 (2014). **Impact Factor: 5.082**
53. Pearson, D.M., Kapp, P., DeCelles, P.G., Reiners, P.W., Gehrels, G.E., Ducea, M.N., and Pullen, A., “Influence of pre-Andean crustal structure on Cenozoic thrust belt kinematics and shortening magnitude: Northwestern Argentina” in *Geosphere*, v. 9, no. 6, doi:10.1130/GES00923.1 (2013). **Impact Factor: 2.582**
54. Heermance, R.V., Pullen, A., Kapp, P., Ding, L., Garzione, C.N., and Song, P., “Sedimentological and stable isotopic evidence for inversion of the Qaidam Basin, China, associated with climate change during the Plio-Quaternary transition, China” in *GSA Bulletin*, v. 125, p. 833–856 (2013). **Impact Factor: 4.398**
55. Ding, L., Yang, D., Cai, F.L., Pullen, A., Kapp, P., Gehrels, G.E., Zhang, L.Y., Lai, Q.Z., Yue, Y.H., and Zhi, R.D., “Provenance Analysis of the Mesozoic Hoh-Xil-Songpan-Ganzi Turbidites in Northern Tibet: Implications for the Tectonic Evolution of the Eastern Paleo-Tethys Ocean” in *Tectonics*, 32, P. 34-48 (2013). **Impact Factor: 4.127**
56. Pearson, D.M., Kapp, P., Reiners, P.W., Gehrels, G.E., Ducea, M.N., Pullen, A., Otamendi, J.E., Alonso, R.N., “Major Miocene exhumation by fault-propagation folding within a metamorphosed, early Paleozoic thrust belt: northwestern Argentina” in *Tectonics*, 31, doi:10.1029/2011TC003043 (2012). **Impact Factor: 4.04.**
57. Gehrels, G.E., Kapp, P., DeCelles, P.G., Pullen, A., Blakey, R., Weislogel, A., Ding, L., Guynn, J., Martin, A., McQuarrie, N., and Yin, A., “Detrital zircon geochronology of pre-Tertiary strata in Tibetan-Himalaya orogen” in *Tectonics*, v. 30, doi:10.1029/2011TC002868 (2011). **Impact Factor: 3.17**
58. Pullen, A., Kapp, P., McCallister, A.T., Chang, H., Gehrels, G.E., Garzione, C.N., Heermance, R.V., and Ding, L., “The Qaidam basin and northern Tibetan Plateau as dust sources for the Chinese Loess Plateau and paleoclimatic implications” in *Geology*, v. 39, p. 1031–1034 (2011). **Impact Factor: 4.23**
59. Pullen, A., Kapp, P., DeCelles, P.G., and Ding, L., “Cenozoic anatexis and exhumation of Tethyan Sequence rocks in the Xiao Gurla Range, southwest Tibet” in *Tectonophysics*, v. 501, p. 28–40 (2011). **Impact Factor: 2.79**
60. Pullen, A., Kapp, P., Gehrels, G.E., Ding, L., and Zhang, Q., “Metamorphic rocks in central Tibet: Lateral variations and implications for crustal structure” in *GSA Bulletin*, doi: 10.1130/B30154.1 (2011). **Impact Factor: 3.787**
61. Lupulescu, M.V., Chiarenzelli, J.R., Pullen, A.T., and Price, J.D., “Using Pegmatite geochronology to constrain temporal events in the Adirondack Mountains” in *Geosphere*, v. 7, p. 23–39 (2011). **Impact Factor: 2.15**
62. *Li, G., Liu, X., Pullen, A., Wei, J., Liu, X., Huang, F., and Zhou, X., “Detrital-zircon geochronology and in-situ hafnium (Hf) isotopic analyses of the Late Triassic Tethys Himalaya Sequence: Implications for provenance and tectonic setting” in *Earth and Planetary Science Letters*, v. 297, no. 3–4, p. 461–470 (2010). **Impact Factor: 4.578**
63. Pullen, A., Kapp, P., Gehrels, G.E., Vervoort, J.D., and Ding, L., “Triassic continental subduction in central Tibet and Mediterranean-style closure of the Paleo-Tethys Ocean” in *Geology*, v. 36, no. 5, p. 351–354 (2008). **Impact Factor: 4.114**

64. Pullen, A., Kapp, P., Gehrels, G.E., DeCelles, P.G., Brown, E., Fabijanic, J., and Ding, L., "Gangdese retroarc thrust and foreland basin deposits in the Damxung area, southern Tibet" in *Journal of Asian Earth Sciences*, v. 33, p. 323–336 (2008). **Impact Factor: 1.36**
65. Kapp, P., DeCelles, P.G., Leier, A., Fabijanic, J., He, S., Pullen, A., Gehrels, G., and Ding, L., "The Gangdese retroarc thrust belt revealed" in *GSA Today* v. 17, no. 7, doi: 10.1130/GSAT01707A.1 (2007). **Impact Factor: 2.118**
66. Guynn, J., Kapp, P., Pullen, A., Heizler, M., Gehrels, G., and Ding, L., "Tibetan basement rocks near Amdo reveal "missing" Mesozoic tectonism along the Bangong suture, central Tibet" in *Geology* v. 34; no. 6; p. 505-508 (2006). **Impact Factor: 3.968**

Other Publications (Unreviewed)

1. Zhang, L.Y., Ding, L., Pullen, A., Kapp, P., "Reply to comment by W. Liu and B. Xia on "Age and geochemistry of western Hoh-Xil–Songpan-Ganzi granitoids, northern Tibet: Implications for the Mesozoic closure of the Paleo-Tethys ocean"" in *Lithos*, 212-215, p. 457-461 (2015). **Impact Factor: 3.92**

Conference Proceedings (Unreviewed)

1. †Kroeger, E.D.L., Kerr, P., Leier, A., Pullen, A., and Fidler, M., "A Recipe for Megafans" in *Geological Society of America Abstracts with Programs*, (2024).
2. †Kroeger, E.D.L., Kerr, P., Fidler, M.K., Pullen, A., Barbeau, D.L., and Leier, A.L., "Evidence of long-lived eolian systems in central South America: observations from the Chaco Plains and the Sierra Aconquija", *Geological Society of America Southeastern Section 73rd Annual Meeting* (2024).
3. *Quanrud, W., Leier, A., Pullen, A., and Barbeau Jr., "Evolving provenance signatures in the Pliocene-Pleistocene loess deposits along the Atlantic margin of Argentina", *Geological Society of America Southeastern Section 73rd Annual Meeting* (2024).
4. *Martina, J., Leier, A., Pullen, A., Barbeau Jr., D., Kight, A., and Zollinger, L., "Preliminary detrital zircon provenance data from Cenozoic strata in the Beaufort-Mackenzie Basin, Arctic Canada" in *Abstracts with Programs, Geological Society of America Southeastern Section 73rd Annual Meeting* (2024).
5. Pullen, A., Leier, A.L., Barbeau Jr., D.L., Fidler, M.K., Stubbins, B., Abell, J.T., and Kroeger, E.D.L., "Unlocking the provenance of the Upper Miocene to Holocene southern South American loess record through U-Pb detrital zircon geochronology" in *American Geophysical Union Fall Meeting* (2023).
6. †Kroeger, E.D.L., Kerr, P., Fidler, M.K., Pullen, A., Leier, A.L., and Barbeau, D.L., "Stratigraphy, geomorphology, and geochronology of Late Pleistocene to Middle Holocene Eolian deposits in the Chaco Plains of Argentina" in *Geological Society of America Abstracts with Programs*, Vol. 55, No. 6 (2023)
7. O'Connor, L., Ibañez-Mejia, M., Pullen, A., Ketcham, R., and †Kroeger, E., "An integrated approach to detrital zircon analysis coupling U-Pb geochronology with zircon grain size, morphology, and radiation damage" in *Geological Society of America Abstracts with Programs* (2023).
8. *Quanrud, W., Leier, A.L., Pullen, A., Barbeau, D.L., Stubbins, B., and Martina, J., "Evolving provenance signatures in Pliocene-Pleistocene loess deposits along the Atlantic margin of Argentina" in *Geological Society of America Abstracts with Programs* (2023).
9. *Stubbins, B., Quanrud, W., Leier, A., Pullen, A., Barbeau, D.L., Zapor, M., and Prior, A., "Late Miocene eolian sediment transport pathways in southern South America derived from detrital zircon geochronology" in *Geological Society of America Abstracts with Programs*, Vol. 54, No. 5, doi: 10.1130/abs/2022AM-381874 (2022).
10. Kroeger, E., Fidler, M., Pullen, A., Leier, A., and Barbeau, D.L., "The whims of wind: understanding aeolian deposits in the Gran Chaco, Argentina" in *Geological Society of America Abstracts with Programs*. Vol 54, No. 5, doi: 10.1130/abs/2022AM-380288 (2022).
11. Nie, J., Pan, B., Peng, W., Zhang, H., and Pullen, A., "Spatial and temporal provenance variations of the Chinese Loess Plateau over the late Miocene to early Pleistocene: a window into the reorganization of the Yellow River and monsoon activity" in *10th International Conference on Geomorphology, ICG2022-739* (2022).
12. Freedman, D.L., García, A.R., Pullen, A., Wilson, J., and Wilson, B., "Development of a 14C Assay to Quantify Abiotic Transformation Rates for Chlorinated Ethenes in Water Supply Aquifers" in *Twelfth International Conference on Remediation of Chlorinated and Recalcitrant Compounds* (2022).

13. Ketcham, R.A., Ibáñez-Mejía, M., and Pullen, A., “Efficient crystal characterization for detrital geochronology” in 5th International Conference on Tomography of Materials & Structures, Grenoble, France (2022).
14. Zhang, H., Nie, J., Liu, X., Pullen, A., Guoqiang, L., Peng, W., and Hanzhi, Z., “Spatially variable provenance of the Chinese Loess Plateau” in American Geophysical Union Fall Meeting (2021).
15. Pullen, A., Barbeau, D.L., Leier, A., Ward, M., Bruner, A., and Fidler, M., “Westerly winds over the southern Puna Plateau during deposition of Upper Pleistocene loessic sediments in the subtropical Andean foothills, South America” in Geological Society of America Abstracts with Programs, v. 53, n. 6, doi: 10.1130/abs/2021AM-364114 (2021).
16. Prior, A., Parga, V., Stubbins, B., Leier, A., Pullen, A., and Barbeau, D.L., “Inferring Pleistocene wind patterns from eolian landforms in the Pampean Sand Sea, central Argentina” in Geological Society of America Abstracts with Programs, v. 53, n. 6, doi: 10.1130/abs/2021AM-367125 (2021).
17. Stubbins, B., Bruner, A., Pullen, A., Leier, A., and Barbeau, D.L., “A preliminary assessment of dust production pathways from southern South America Pleistocene loess using detrital zircon geochronology” in Geological Society of America Abstracts with Programs, v. 53, n. 6, doi: 10.1130/abs/2021AM-367081 (2021).
18. Corradino, J.I., Pullen, A., Leier, A., Scher, H.D., Barbeau, D.L., Currie, L., and Leckie, D.A., “Cordilleran sediments in the Labrador Sea: Detrital evidence from the Saglek Basin for the Oligocene-Pliocene transcontinental Bell River” in Geological Society of America Abstracts with Programs (2020).
19. Bruner, A., Pullen, A., Barbeau, D., and Leier, A., “Evaluation of the dust production pathways of the southern South American Pleistocene loess using detrital zircon geochronology” in Geological Society of America Abstracts with Programs, Joint NE-SE Regional Section Meeting (2020) [meeting cancelled].
20. Bruner, A., Pullen, A., Leier, A., “A first look at the dust production pathways of the southern South American Pleistocene loess using detrital zircon geochronology” in American Geophysical Union Fall Meeting, EP23C-2267 (2019).
21. Garzzone, C.N., Weber, T.S., Lauderdale, J.M., Nie, J., Pullen, A., An, A., Abell, J., Winckler, G., Anderson, R.F., Herbert, T., Lu, H., and Molnar, P., “Asian Tectonics, the Fe Hypothesis for the North Pacific, and Late Cenozoic Cooling” in American Geophysical Union Fall Meeting, GC53D-02 (2019).
22. Pullen, A., Abell, J., Lebo, Z.J., Kapp, P., Gloege, L., Metcalfe, A.R., Nie, J., and Winkler, G., “When geology and climate collide: evolving landscapes and the wind-albedo wind feedback” in American Geophysical Union Fall Meeting, EP23B-05 (2019).
23. Bruner, A., Pullen, A., Capp, R., Fleming, M., Mundell, H., Phibbs, P., and Wiltblake, L., “Analysis of paleo-wind direction from vegetation stabilized dunes in La Pampa, Argentina” in Geological Society of America Abstracts with Programs (2019).
24. Pullen, A., Kapp, P., Banaszynski, M., and Reiners, P.W., “Exhumation history of the western Chinese Altai Mountains, central Asia, from single-crystal apatite U-Th/He thermochronology” in Geological Society of America Abstracts with Programs. Vol. 50, No. 6, doi: 10.1130/abs/2018AM-322165 (2018).
25. Pullen, A., Ibáñez-Mejía, M., Gehrels, G.E., “What is the big deal with Large-n U-Pb geochronology?” in Geological Society of America Southeastern Section Meeting Abstracts with Programs, DOI: 10.1130/abs/2018SE-313128 (2018).
26. Pullen, A., Kapp, and Chen, N., “Late Cenozoic Wind Erosion in the Hami Basin, Northwestern China” in Geological Society of America Abstracts with Programs. Vol. 49, No. 6, doi: 10.1130/abs/2017AM-306098 (2017).

Prior to Clemson

27. Licht, A., Dupont-Nivet, G., Pullen, A., Kapp, P., Abels, H., Abell, J., and Giesler, D., “Resilience of the Asian atmospheric circulation to paleogeographic and climatic changes” in Geophysical Research Abstracts, EGU General Assembly, v. 18, EGU2016-4932 (2016).
28. Licht, A., Pullen, A., Kapp, P., Abell, J., and Giesler, N., “Sources of the Quaternary Chinese Loess Plateau strata based on U-Pb detrital zircon ages: implications for atmospheric circulation and internal recycling of the Loess Plateau” in The Batsheva de Rothschild Seminar on Dust, Loess, and Soils in Deserts and Desert Margins (2015).

29. Kapp, P., Pullen, A., Pelletier, J.D., Russell, J., Goodman, P., and Cai, F., "Quaternary wind erosion of the Mu Us Desert and Loess Plateau, China" in *The Batsheva de Rothschild Seminar on Dust, Loess, and Soils in Deserts and Desert Margins* (2015).
30. Kapp, P., Pullen, A., Pelletier, J.D., Russell, J., and Cai, F., "From dust to dust: Quaternary wind erosion of the Mu Us Desert and Loess Plateau, China" in *Geological Society of America Abstracts with Programs*. Vol. 46, No. 6 (2014).
31. Xing, J., Weislogel, A., and Pullen, A., "Detrital zircon provenance of the central Songpan-Ganzi Turbidites, Northern Tibetan Plateau: implications for the filling history and tectonic evolution" in *GSA Abstracts with Programs* v. 45, n. 7 (2014).
32. Kar, N., Garzione, C.N., Carlotto, V.S., Shanahan, T., Anderson, C., Pullen, A., and Eiler, J.M., "Paleoelevation history of the northernmost Altiplano Plateau: Implications for geodynamic evolution of the Andes" in *GSA Abstracts with Programs* v. 45, n. 7 (2013).
33. Heermance, R.V., Kapp, P., Pullen, A., and Garzione, C.N., "A case for wind enhanced tectonics: Plio-Quaternary sedimentation, erosion, and structural evolution of the Qaidam Basin, China" in *AGU, Fall Meet, Suppl.* (2012).
34. Li, L., Garzione, C.N., Pullen, A., Molnar, P., and Chang, H., "Stratigraphy and stable isotope results from a Eocene–Miocene section of the western Qaidam Basin, NW China" in *AGU, Fall Meet, Suppl.* (2012).
35. Pullen, A., Kapp, P., Hong, C., McCallister, A.T., Garzione, C.N., Gehrels, G.E., Heermance, R.V., and Ding, L., "The Qaidam basin and northern Tibetan Plateau as dust sources for the Chinese Loess Plateau determined by detrital zircon provenance" in *AGU, Fall Meet. Suppl.* (2011).
36. Heermance, R.V., Pullen, A., Kapp, P., and Song, P., "Climatic and tectonic feedbacks and implications on sedimentation, tectonic deformation, and erosion circa 3.1 Ma in the Qaidam Basin, China: Evidence from magnetostratigraphy, geochemistry, and stratigraphic analysis" in *AGU, Fall Meet. Suppl.* (2011).
37. DiPietro, J.A., and Pullen, A., "Was There Pre-Collisional Metamorphism in Swat Pakistan?" in *Proceedings of the 25th Himalayan-Karakoram-Tibet workshop, U.S. Geological Survey Open-File Report 2010-1099* (2010).
38. Pullen, A., Kapp, P., Gehrels, G.E., and Ding, L., "Metamorphosed Tethyan Sequence rocks and structure of the Xiao Gurla Range, Indus-Yarlung suture zone southwest Tibet" in *GSA Abstracts with Programs* v. 41, no. 7 (2009).
39. Pullen, A., Kapp, P., Gehrels, G.E., "Mediterranean-style closure of the Paleo-Tethys ocean" in *Eos Trans. AGU* 89 (53), Fall Meet. Suppl. (2008).
40. Pullen, A., Kapp, P., Gehrels, G.E., and Ding, L., "The insight into the Basement of Central Tibet: Timing, Exhumation, and Extent of the Qiangtang Metamorphic Belt and Duguer Shan Gneiss" in *GSA Abstracts with Programs* v. 40, no. 5 (2008).
41. Chiarenzelli, J.R., Lupulescu, M., Johnston, S., Pullen, A., and Chiarenzelli, J., "Geochronology of Adirondack Pegmatites by LA-MC-ICP-MS" in *GSA Abstracts with Programs* v. 40, no. 5 (2008).
42. Gehrels, G.E., Kapp, P., Pullen, A., and Ding, L., "U-Pb Basement and Detrital Zircon Geochronology of the Southern Tibetan Plateau and Tethyan Himalaya" in *GSA Abstracts with Programs* v. 40, no. 5 (2008).
43. Kapp, K., Pullen, A., Gehrels, G.E., Ding, L., "U-Pb Basement and Detrital Zircon Geochronology of the Lhasa and Qiangtang Terranes in Tibet" in *Eos Trans. AGU* 88 (52), Fall Meet. Suppl. (2007).
44. Gehrels, G., Valencia, V., and Pullen, A., "Detrital zircon geochronology by laser-ablation multicollector ICPMS at the Arizona LaserChron Center" in Olszewski, T., and Huff, W. (Eds), *Geochronology: Emerging Opportunities*, Paleontological Society Short Course. Philadelphia, PA Paleontological Society Papers, v. 11, p. 1-10 (2006).
45. Gehrels, G., Ruiz, J., Valencia, V., Pullen, A., and Baker, M., "Detrital zircon U-Th-Pb geochronology by LA-MC-ICPMS at the Arizona LaserChron Center" in *GSA Abstracts with Programs* v. 38, no. 7 (2006).
46. Pullen, A., Gehrels, G., Ruiz, J., Valencia, V.A., and Baker, M., "U-Pb geochronology on sphene (titanite) by LA-MC-ICPMS" in *ICP Spectrochemistry Winter Conference, ICP Information Newsletter* v 31, abstracts and program (2006).
47. Valencia, V., Gehrels, G., Ruiz, J., Pullen, A., and Baker, M., "U-Pb zircon dating using LA-MC-ICPMS at the Arizona LaserChron Center" in *ICP Spectrochemistry Winter Conference, ICP Information Newsletter* v 31, abstracts and program (2006).

48. Gehrels, G., Ruiz, J., Valencia, V., Pullen, A., and Baker, M., "U-Th-Pb geochronology by laser ablation ICP mass spectrometry at the Arizona LaserChron Center" in Spectrochemistry Winter Conference, ICP Information Newsletter v 31, abstracts and program (2006).
49. Guynn, J., Kapp, P., Pullen, A., Gehrels, G., "Mesozoic magmatism, metamorphism and exhumation recorded by the Amdo basement, central Tibet" in GSA abstracts with programs, 37, 7, p. 272 (2005).

PRESENTATIONS (Invited)

1. Pullen, A., "Connecting the lithosphere, hydrosphere, and atmosphere", Southern Methodist University (Feb. 2025).
2. Pullen, A., "A window into Miocene–Pleistocene climates through rivers, wind, dust, and landscape evolution", University of North Carolina Charlotte (Nov. 2024).
3. Pullen, A., "A window into Plio-Pleistocene climates through rivers, wind, dust, and landscape evolution", University of Iowa, Department of Earth and Environmental Sciences (Sept. 2022)
4. Pullen, A., "Reconstructing paleowinds, landscape evolution, and dust production in South America and China", Geological Society of Namibia, Namibia University of Science and Technology (Aug. 2022).
5. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central Asian wind-erosion and dust transport record", New Mexico Institute of Mining and Technology, Department of Earth and Environmental Science Seminar (Apr. 2017).
6. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central Asian wind-erosion and dust transport record", George Mason University, College of Atmospheric, Oceanic, and Earth Sciences Seminar (Mar. 2017).
7. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central Asian wind-erosion and dust transport record", Michigan State University, Department of Earth and Environmental Sciences Seminar (Mar. 2017).
8. Pullen, A., "Building the Tibetan Plateau and blowing it away", University of Calgary, Department of Geoscience Seminar (Feb. 2017).
9. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central-east Asian wind-erosion and dust transport record", University of Victoria, School of Earth and Ocean Sciences Seminar (Apr. 2016).
10. Pullen, A., "Building the Tibetan Plateau and Blowing It Away", University of Maryland, Department of Geology Colloquium (Mar. 2016).
11. Pullen, A., "Building the Tibetan Plateau and Blowing It Away", California State University-Fullerton, Department of Geological Sciences Seminar (Feb. 2016).
12. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central Asian wind-erosion and dust transport record", Kansas State University, Department of Geology Colloquium (Feb. 2016).
13. Pullen, A., "Sandblasting the landscape: a look into the Miocene–Pleistocene central Asian wind-erosion and dust transport record", University of South Carolina, School of Earth, Ocean and Environment Colloquium (Nov. 2015).
14. Pullen, A., "Flying zircon crystals and the mass spectrometers that date them",
15. Louisiana State University, Department of Geology and Geophysics Lecture Series (Mar. 2015).
16. Pullen, A., "Pliocene–Quaternary aridification in central Asia: a history of wind deflation and atmospheric dust," University of Alabama, Department of Geological Sciences Seminar (Mar. 2014).
17. Pullen, A., "From Mesozoic slab rollback to Cenozoic plateau growth: examples of two strikingly different Tibetan basins", Texas A&M University, Department of Geology and Geophysics Seminar (Mar. 2014).
18. Pullen, A., "The Tibetan Plateau from the asthenosphere to the atmosphere", University of Georgia, Department of Geology Seminar (Feb. 2014)
19. Pullen, A., "The Tibetan Plateau from the asthenosphere to the atmosphere," Oregon State University, College of Earth, Ocean, and Atmospheric Sciences Seminar (Feb. 2013).
20. Pullen, A., "The Tibetan Plateau from the asthenosphere to the atmosphere", University of Michigan, Department of Earth and Environmental Sciences Seminar (Feb. 2013).
21. Pullen, A., "Mesozoic tectonics and Miocene–Quaternary aridification in the sedimentary record of the Tibet Plateau", University of Missouri, Department of Geological Sciences Seminar (Feb. 2013).

22. Pullen, A., “The Tibetan Plateau from the asthenosphere to the atmosphere”, Missouri State University, Department of Geography, Geology, and Planning Seminar (Jan. 2013).
23. Pullen, A., “Turning of the central Asian dust machine during Pliocene time”, West Virginia University, Department of Geology and Geography Seminar (Oct. 2012).
24. Pullen, A., “The Tibetan Plateau from the asthenosphere to the atmosphere”, University of Utah, Department of Geology and Geophysics Seminar (Oct. 2012).
25. Pullen, A., “Paleozoic–Mesozoic tectonic evolution of central Tibet: implication for the closure of the Paleo-Tethys Ocean and present-day crustal structure,” Colorado State University, Geosciences Seminar (Feb. 2012.)
26. Pullen, A., “Hypothesis Testing: A Mediterranean-Style closure of the Paleo-Tethys Ocean”, University of Rochester, Department of Earth and Environmental Science Colloquium (Feb. 2010).
27. Pullen, A., “Triassic Mediterranean-style closure of the Paleo-Tethys Ocean”, Princeton University, Department of Geosciences Seminar (Dec. 2009)

SPONSORED RESEARCH

- “Collaborative Research: Paleoclimatic and tectonic forcing on Neogene sedimentation changes in the Beaufort-Mackenzie Basin”, NSF-Sedimentary Geology and Paleobiology (EAR-2418081), Principal Investigator, \$262,379, (\$196,784), (2024–2027).
- “Acquisition of an Isotope Ratio Mass Spectrometer, Gas Bench, and Elemental Analyzer for the Adaptation to Climate Change”, CU-MRI (Clemson University), Principal Investigator, \$394,620 (2022).
- NCAR Cheyenne: Quantifying the effects of landscape evolution and mountain uplift in Eastern Asia on the formation of the Chinese Loess Plateau, 6.5 M core hours, (2021–2022).
- Provenance Analysis Through Physico-Mechanical Characterization of Zircon Transport”, NSF-Sedimentary Geology and Paleobiology, (EAR- 1946496), Principal Investigator, \$195,884, (\$166,501), (2020–2025).
- “Development of Protocols to Quantify Abiotic Transformation Rates and Mechanisms for Chlorinated Ethenes in Water Supply Aquifers”, SERDP, co-Principal Investigator, \$626,704, (\$40,000), (2020–2023).
- “Collaborative Research: Deconvolving the southern South American Pleistocene–Holocene dust production pathways”, NSF-Sedimentary Geology and Paleobiology (EAR-1910510), Principal Investigator, \$207,696, (\$166,156), (2019–2024).
- “Acquisition of New Inductively Coupled Plasma-Mass Spectrometry and Inductively Coupled Plasma – Optical Emission Spectrometry systems with a coupled Laser Ablation Stage”, CU-MRI (Clemson University), co-Principal Investigator, \$457,116, (2019).
- “Dust stimulated drawdown of atmospheric CO₂ as a trigger for Northern Hemisphere Glaciation”, NSF-PIRE (1545859), U. Rochester lead institution, (Garizone P.I. of project; sub-award to Pullen as P.I. at institution), \$4,242,259 awarded to this point, (\$547,987), (2016–2024).
- “Collaborative Research: Tracking Long-Term Glacial-Interglacial Wind Pattern Variability in Central Asia Using Geochemical Analysis of Aerosol Derived Detritus”, NSF-P2C2 (AGS-1203427), Principal Investigator, \$189,582, (\$189,582), (2012–2016).
- “Collaborative Research: Hypothesis Testing of a Mediterranean-style Closure of the Paleo-Tethys Ocean”, NSF-Tectonics (EAR-1118525), Principal Investigator, \$230,482, (\$230,482), (2011–2016).

GRADUATE STUDENT ADVISING

Doctoral Graduates

- Giuffrida, Alessandro (Ph.D.) “Fault And Fracture Analysis And Investigation Of Their Mineral Infill In The Mesozoic Carbonates Cropping Out Along The SW Section Of Monte Alpi, Basilicata Region, Italy” (University of Basilicata), 10/2019 (**Tutor:** no equivalence in the U.S.; equal to advising a dissertation chapter).
- Gavin Gleasman (Ph.D.) “Investigation of high-energy storm events and their impacts on carbon storage in tidal wetlands of South Carolina, 5/2025, (**Committee Member**)
- Bohm, Katja (Ph.D.) “Provenance of the pre-Quaternary aeolian dust deposits of East Asia”, (University of Helsinki) 12/2023, (**Opponent:** no equivalence in the U.S.; essentially an antagonistic external committee member)

Master's Graduates

- Corradino, Julia, "The Neogene catchment history of Bell River through U-Pb detrital zircon geochronology and Nd isotopes of Saglek basin sediments", 08/2020 (**Primary Advisor**)
- McMechen, Cody, "History of the Tengger Desert through U-Pb detrital zircon geochronology using large-n", 05/2021, (**Primary Advisor**)
- Gleasman, Gavin, non-thesis Hydrogeology, 05/2021, (**Committee Member**)
- Stubbins, Blake, "Dust Production and Transport in a Long-Lived Fluvial-Eolian System in the Pampas of South America", (University of South Carolina), 05/2023, (**Committee Member**)
- Topping, Leah, "Quantifying heterogeneity along a hillslope using seismic refraction, structure from motion, and X-ray fluorescence in the Piedmont, South Carolina", 05/2023, (**Committee Member**)
- Quanrud, Will, "Deconvolving Provenance Signatures of Pliocene-Pleistocene Coastal Loess Deposits Along the Atlantic Margin of Argentina" (University of South Carolina) 05/2023, (**Committee Member**)

Current Graduate Advising

- Kroeger, Emma (Ph.D.) "TBA", 05/2025, (**Primary Advisor**)
- Martina, Joseph (M.S.) "TBA", (University of South Carolina) 5/2024, (**Committee Member**)
- Chiaviello, Annalee (Ph.D.) "TBA", (Clemson University), (**Primary Advisor**)
- Nicholas (Brady) Anderson (M.S.), Determination of detrital zircon parent functions using U-Pb, CT, and Raman for the Río Bermejo, Argentina, 05/2026, (**Primary Advisor**)
- Ross, J.D. (M.S.) Hypothesis testing climatic forcing on salt tectonics across the Carnian Pluvial Episode, Colorado Plateau. (05/2026). (**Committee Member**)
- Sgan, Addy (M.S.) Microplastic mobilization in the French Broad River, North Carolina, during hurricane Helene. (05/2026). (**Committee Member**)

UNDERGRADUATE STUDENT ADVISING

Senior Theses

- Bruner, A. (2020), CECAS Undergraduate Researcher of the Year
- Payne, A. (2020)
- McElveen, E. (2020)
- Ward, M. (2021)
- O'Cain, S. (2022)
- Mean, S. (2024), CECAS Undergraduate Research Fellow, CECAS Opportunity Grant
- Keeseee, R. (2025)
- Warriner, L. (2026)

TEACHING

Courses Taught

Beginning Fall 2017

- GEOL 4050/6050, Surficial Geology, S19, S21, S23
- GEOL 4051/6051, Surficial Geology Lab, S19, S21, S23
- EES 9610, PhD Seminar, F18, S20, S21, S22, S23, F24
- GEOL 3130, Sedimentology and Stratigraphy, Every Spring S20–S24
- GEOL 3131, Sedimentology and Stratigraphy Lab, Every Spring S20–S24
- GEOL 3020, Structural Geology, Every Fall S17–F24
- GEOL 3021, Structural Geology Lab, Every Fall S17–F24
- GEOL 4110, Creative Inquiry, SA Glacial Dust Production, S20, F20, F21, F22, S23, F23, F24

New Course Development

- GEOL 4500/6500/8500 Paleoclimate, F19, F21, F23

Prior to Clemson

- GEOS 304, Structural Geology, S16
- GEOS 251, Physical Geology, Su16, F13
- EES 286/486, Seminar in Sedimentology and Tectonics, F12

UNIVERSITY, PROFESSIONAL, AND PUBLIC SERVICE

University

Committees

- CECAS Scholarship and Awards Committee (2024-)
- EEES Scholarship and Awards Committee (2018-)
- Geology Curriculum Committee (2017-)
- Sustainability Minor Committee (2018-2019)
- Geology Faculty Search Committee (2018)
- Geology Lecturer Search Committee (2018)
- Faculty Advisor Geology Club (2018-)
- Undergraduate Advisor, B.S. Geology (2017-)

Other Service

- Clemson Post-Doc Association Summer Brown Bag Lunch Series (2022)

PROFESSIONAL ACTIVITIES

Committees

- Geological Society of America Research Grants Committee, Member-at-Large Structural Geology/Tectonics (2024-2027).

Reviewer

- 2025- Basin Research ($n=1$); Geology ($n=1$)
- 2024- Geology ($n=1$); GSA Bulletin ($n=2$); Lithosphere ($n=2$); Quaternary Science Reviews ($n=1$); Cambridge University Press – book review – *Fold-Thrust Belts and Foreland Basins* ($n=1$); Palaeogeography, Palaeoclimatology, Palaeoecology ($n=1$); Nature Communications Earth & Environment ($n=1$); Geophysical Research Letters ($n=1$); Marine and Petroleum Geology ($n=1$); CATENA ($n=1$).
- 2023- Journal of Geophysical Research – Earth Surface ($n=1$); Tectonophysics ($n=1$); Aeolian Research ($n=1$); Catena ($n=1$); Basin Research ($n=2$); GSA Bulletin ($n=2$); Geophysical Research Letters ($n=1$); Geology ($n=1$); Palaeogeography, Palaeoclimatology, Palaeoecology ($n=1$); Earth and Planetary Sciences Letters ($n=1$); Quaternary Science Reviews ($n=1$)
- 2022- GSA Bulletin ($n=2$); JGR-Atmospheres ($n=2$); NSF Proposals ($n=1$); JGR-Planets ($n=1$); Geoscience Frontiers ($n=1$); JGR-Earth Surface ($n=1$); Catena ($n=1$); Aeolian Research ($n=1$)
- 2021- American Chemical Society Proposal ($n=1$); American Mineralogist ($n=1$); EPSL ($n=1$); Geological Magazine ($n=1$); GSA Bulletin ($n=1$); Geology ($n=1$); U.S.-Israel Binational Science Foundation Proposal ($n=1$); Israel Science Foundation Proposal ($n=1$); NSF Proposals ($n=1$); UK Research and Innovation Proposal ($n=1$); Journal of the Geological Society ($n=1$); Catena ($n=1$); Elsevier book proposal review ($n=1$)
- 2020- NSF Proposals ($n=1$); Catena ($n=1$); GSA Bulletin ($n=3$); Geology ($n=1$); Minerals ($n=1$)
- 2019- Geology ($n=3$); Science Advances ($n=1$); Tectonics ($n=2$); Quaternary Sciences Reviews ($n=1$); NSF Proposals ($n=1$)
- 2018- Basin Research ($n=1$); GSA Bulletin ($n=2$); Tectonics ($n=2$); Geochemistry, Geophysics, Geosystems ($n=1$); Geoscience Frontiers ($n=2$); Basin Research ($n=1$); Geophysical Research Letters ($n=1$); Journal of Asia Earth Sciences ($n=1$)
- 2017- Geology ($n=1$); Tectonics ($n=1$); Basin Research ($n=1$)
- 2015- Journal of Quaternary Science Reviews ($n=1$)
- 2013- Journal of Asia Earth Sciences ($n=1$); Tectonics ($n=1$); EPSL ($n=1$)
- 2012- Tectonics ($n=2$); GSA Bulletin ($n=1$)

- 2011- Tectonics ($n= 2$); Journal of Asia Earth Sciences ($n= 1$)

Other Service

- Geosciences Education & Mentorship Support (GEMS) sponsored by the National Association of Geoscience Teachers (NAGT)– undergraduate professional mentorship; Mentees: Nick Bailey (U. Utah, F23–24), Grace Coleman (Sam Houston State U., F24–S25).
- Geological Society of America, Southeastern Regional Meeting, 2024, Asheville, NC: session co-chair, Sedimentology, Geochronology, and Tectonics in the Southeastern United States and Beyond.
- Summit on Improving Geoscience Graduate Student Preparedness for the Future Workforce Department Head, Chairs & Graduate Program Directors, 2019, U. of Texas, Austin, TX.
- American Geophysical Union, Fall Meeting, 2019, San Francisco, CA: session co-chair, Asian Tectonics, the Fe Hypothesis for the North Pacific, and Late Cenozoic Cooling.
- American Geophysical Union, Fall Meeting, 2019, San Francisco, CA: session co-chair (74413), The Coevolution of Tectonics, Climate and Biodiversity in Central Asia.
- Geological Society of America, SE Regional Meeting, 2019, Charleston, SC: session co-chair (T5), A Window into Regional Deformation and Sedimentation through Geo-, Thermo, and Petrochronology.
- Geological Society of America, Annual Meeting, 2016, Denver, CO: session co-chair (T215), Applications of Geochronology and Thermochronology for Understanding the Tectonic Mechanisms and Surface Processes of the Tibetan Plateau.
- Geological Society of America, West Regional Meeting, 2010, Anaheim, CA: session co-chair
- Geological Society of America, West Regional Meeting, 2010, Anaheim, CA: U-Th-Pb short course instructor

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