# Peter C. Lippert

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## RESEARCH INTERESTS

I use field study in conjunction with paleomagnetic, rock and mineral magnetic, and collaborative stratigraphic, geochemical, and petrochronologic approaches to investigate a wide range of geological puzzles from the nanoscale to the planetary scale. Specifically, I utilize the unique information encoded in the magnetic and chemical properties of geological materials to study tectonic, paleoclimate, and paleoecological processes, and to recognize feedbacks between geodynamics, climate transitions, and surface processes. My research program is broadly defined by the following areas of study in Earth System Science:

a) Tectonics & Paleogeography;
b) Geochronology Applied to Climate Processes, Igneous Processes, and Ecology & Evolutionary Biology;
c) Surface and Crustal Processes; and
d) Geobiology.

## APPOINTMENTS

Assistant Professor, Dept. of Geology & Geophysics, University of Utah, since July 2014
Affiliated Faculty, Global Change & Sustainability Center, University of Utah, since September 2014
Director, Utah Paleomagnetic Center, since July 2014
Scientific Crew (Paleomagnetist), IODP Expedition 342 – Paleogene Newfoundland Sediment Drifts, 2012
Lecturer, University of California, Santa Cruz, 2010
Course Instructor, University of California, Santa Cruz, 2009
Teaching Assistant, University of California, Santa Cruz, 2003-2008, 2010
Teaching Assistant, University of Rochester, 2000-2002

## EDUCATION

**2013-2014** Post-Doctoral Fellow, Earth System Evolution Program, Canadian Institute for Advanced Research
Dept. of Geosciences, Univ. of Arizona, Tucson
**Mentors** Peter Reiners, Katherine Freeman (Penn State Univ.)

**2011-2013** Post-Doctoral Fellow, Dept. of Geosciences, Univ. of Arizona, Tucson
**Mentor** Paul Kapp

**2010** Post-Doctoral Fellow, Dept. of Earth & Planetary Sciences,
Univ. of California, Santa Cruz
**Mentors** Xixi Zhao, Jeremy Hourigan

**2010** PhD in Earth Sciences (Geology)
Dept. of Earth & Planetary Sciences, Univ. of California, Santa Cruz
**Thesis** *Rock Magnetic and Paleomagnetic Applications to Paleogene Climate Change and Tectonics: Studies from Eastern North America and Central Tibet*
**Thesis Committee** Robert S. Coe (UCSC), Xixi Zhao (UCSC), Paul L. Koch (UCSC), Stephan Graham (Stanford)

**2003** B.S. in Geological Science, Univ. of Rochester, Rochester, NY
Graduated cum laude with High Distinction and Highest Honors in Research
**Thesis** *Magnetostratigraphy of the Early Cretaceous Sverdrup Basin (Canadian Arctic): Implications for the Nature of Valanginian Glacial Episodes*
**Research Advisor** John A. Tarduno (UR)
**Take-5 Scholars Fellowship Program, University of Rochester**
*The Social History and Anthropology of Early 20$^{th}$ Century Science, Medicine, and Technology*
**Take-5 Advisor** Theodore M. Brown (UR)

## PUBLICATIONS

**(^= postdoc, *= graduate student, **=undergraduate student, bold if I have had a direct & signficant advisory or supervisory role)**

GoogleScholar Profile: https://scholar.google.com/citations?user=qo8di5cAAAAJ&hl=en

Citations: 1542; h-index: 15; i10-index: 18 (*as of 22 August 2018*)

List *does not* include publications in which "IODP Expedition 342 Scientists" is listed as a co-author

## SUBMITTED PUBLICATIONS

none

## PEER-REVIEWED PUBLICATIONS

31. Yamamoto, Y., H. Fukami, W. Taniguchi, **P.C. Lippert**. Data report: Updated magnetostratigraphy of IODP Sites U1403, U1408, U1409, and U1410. In *Proceedings of the Integrated Ocean Drilling Program*, Norris, R.D., P.A. Wilson, P. Blum, and the Expedition 342 Scientists (Eds). Volume *342*, doi:10.2204/iodp.proc.342.207.2018.
30. van Hinsbergen, D.J.J., **P.C. Lippert**, S.H. Li, W.T. Huang^, E.L. Advokaat^, and W. Spakman. Reconstructing Greater India: Paleogeographic, kinematic, and geodynamic perspectives. *Tectonophysics*, available online 22 April 2018, doi:10.1016/j.tecto.2018.04.006.
29. Rivera, T.A., R. Furlong**, J. Vincent**, S. Gardiner**, B. Jicha, M. Schmitz, and **P.C. Lippert**, 2018. Volcanism at 1.45 Ma within the Yellowstone volcanic field, United States. *Journal of Volcanology and Geothermal Research, 357*, 224-238, doi:10.1016/j.jvolgeores.2018.04.030.
28. Zhang, R., D.B. Jiang, G. Ramstein, Z.S. Zhang, **P.C. Lippert**, and E.T. Yu, 2018. Changes in Tibetan plateau latitude as an important factor for understanding East Asian climate since the Eocene: A modeling study. *Earth & Planetary Science Letters*, 484, 295-308, doi:10.1016/j.epsl.2017.12.034.
27. Egger, L.M.*, A. Bahr, O. Friedrich, P. A. Wilson, R. D. Norris, T.E. van Peer*, **P.C. Lippert**, D. Liebrand^, and J. Pross, 2018. Sea-level and surface-water change in the western North Atlantic across the Oligocene–Miocene Transition: A palynological perspective from IODP Site U1406 (Newfoundland margin). *Marine Micropaleontology*, *139*, 57-71, doi:10.1016/j.marmicro.2017.11.003.
26. van Peer, T.E.*, C. Xuan, **P.C. Lippert**, D. Liebrand^, C. Agnini, and P.A. Wilson, 2017. Extracting a Detailed Magnetostratigraphy From Weakly Magnetized, Oligocene to Early Miocene Sediment Drifts Recovered at IODP Site U1406 (Newfoundland Margin, Northwest Atlantic Ocean). *Geochemistry, Geophysics, Geosystems*, *18*, 3910-3928, doi:10.1002/2017GC007185.
25. Rivera, T.A., R. Darata**, **P.C. Lippert**, B.R. Jicha, and M.D. Schmitz, 2017. The duration of a Yellowstone super-eruption cycle and implications for the age of the Olduvai subchron. *Earth Planet. Sci. Letters*, 479, 377-386, doi:10.1016/j.epsl.2017.08.027.
24. Song, P.P.^, L. Ding, Z.Y. Li, **P.C. Lippert**, and Y.H. Yue, 2017. An early bird from Gondwana: Paleomagnetism of Lower Permian lavas from northern Qiangtang (Tibet) and the geography of the Paleo-Tethys. *Earth Planet. Sci. Letters*, 475, 119-133, doi:10.1016/j.epsl.2017.07.023.
23. van Peer, T.E.*, D. Liebrand^, C. Xuan, **P.C. Lippert**, C. Agnini, N. Blum, P. Blum, S.M. Bohaty, P.R. Bown, R. Greenop^, W.E.C. Kordesch*, D. Leonhardt, O. Freidrich, and P.A. Wilson, 2017. Data report: Revised composite depth scale and splice for IODP Site U1406. In *Proceedings of the Integrated Ocean Drilling Program*, Norris, R.D., P.A. Wilson, P. Blum, and the Expedition 342 Scientists (Eds). Volume *342*, doi:10.2204/iodp.proc.342.202.2017.
22. Huang, W.T.^, **P.C. Lippert**, Y. Zhang, M.J. Jackson, M.J. Dekkers, J. Li, X.M. Hu, B. Zhang, and Z.J. Guo, 2017. Remagnetization of carbonate rocks in southern Tibet: Perspectives from rock magnetic and petrographic investigations. *JGR Solid Earth,* 122(4), 2434-2456, doi:10.1002/2017JB013987.
21. Huang, W.T.^, **P.C. Lippert**, M. Jackson, M.J. Dekkers, Y. Zhang, J. Li, Z.J. Guo, P. Kapp, and D.J.J. van Hinsbergen, 2017. Remagnetization of the Paleogene Tibetan Himalayan carbonates in the Gamba area: Implications for reconstructing the lower plate in the India-Asia collision. *JGR Solid Earth,* 122, 808-825, doi:10.1002/2016JB013662.
20. Egger, L.M.*, K.K. Sliwinska, T.E. van Peer*, D. Liebrand^, **P.C. Lippert**, O. Friedrich, P.A. Wilson, R.D. Norris, and J. Pross, 2016. Magnetostratigraphically calibrated dinoflagellate cyst bioevents for the uppermost Eocene to lowermost Miocene of the western North Atlantic (IODP Expedition 342, Paleogene Newfoundland sediment drifts). *Review of Palaeobotany and Palynology,* 234, 159-185, doi:10.1016/j.revpalbo.2016.08.002.
19. Li, Z.Y., L. Ding, **P.C. Lippert**, P.P. Song*, Y.H. Yue, and D.J.J. van Hinsbergen, 2016. Paleomagnetic constraints on the Mesozoic drift of the Lhasa terrane (Tibet) from Gondwana to Eurasia. *Geology*, 44, 727-730, doi:10.1130/G38030.1.
18. Song, P.P.*, L. Ding, Z.Y. Li, **P.C. Lippert**, T.S. Yang, X.X. Zhao, J. Fu, and Y. Yue, 2015. Late Triassic paleolatitude of the Qiangtang block: Implications for the closure of the Paleo-Tethys ocean. *Earth Planet. Sci. Letters*, 42, 69-83, doi:10.1016/j.epsl.2015.05.020.

17. Huang, W.T.*, D.J.J. van Hinsbergen, **P.C. Lippert**, Guo, Z.J., and G. Dupont-Nivet, 2015. Paleomagnetic tests of tectonic reconstructions of the India-Asia collision zone. *Geophys. Res. Letters*, 42, 2642-2649, doi:10.1002/2015GL063749.
16. Huang, W.T.*, G. Dupont-Nivet, **P.C. Lippert**, D.J.J. van Hinsbergen, M.J. Dekkers, Z.J. Guo, R. Waldrip, M. Ganerød, X.C. Li, and P. Kapp. 2015. What was the Paleogene latitude of the Lhasa terrane? A reassessment of the geochronology and paleomagnetism of Linzizong volcanic rocks (Linzhou Basin, Tibet). *Tectonics*, 34, 594-622, doi:10.1002/2014TC003787.
15. Huang, W.T.*, G. Dupont-Nivet, **P.C. Lippert**, D.J.J. van Hinsbergen, M.J. Dekkers, Z.J. Guo, R. Waldrip, X.C. Li, X.R. Zhang, D.D. Liu, and P. Kapp, 2015. Can a primary remanence be retrieved from partially remagnetized Eocene volcanic rocks in the Nanmulin Basin (Southern Tibet) to date the India-Asia collision? *JGR Solid Earth*, 120, 42-66, doi:10.1002/2014JB011599.
14. Huang, W.T.*, D.J.J. van Hinsbergen, M.J. Dekkers, E. Garzanti, G. Dupont-Nivet, **P.C. Lippert**, X.C. Li, M. Maffione, C.G. Langereis, X.M. Hu, Z.J. Guo, P. Kapp, 2015. Paleolatitudes of the Tibetan Himalaya from primary and secondary magnetizations of Jurassic to Lower Cretaceous sediments. *Geochemistry, Geophysics, Geosystems*, 16, 77-100, doi:10.1002/2014GC005624.
13. **Lippert, P.C.**, D.J.J. van Hinsbergen, and G. Dupont-Nivet, 2014. The Early Cretaceous to Present latitude of the central proto-Tibetan plateau: A paleomagnetic synthesis with implications for Cenozoic tectonics, paleogeography, and climate of Asia. In *Toward an Improved Understanding of Uplift Mechanisms and the Elevation History of the Tibetan Plateau*. Nie, J.S., G.D. Hoke, and B.K. Horton (eds.). GSA Special Paper 507, p. 1-21, doi:10.1130/2014.2507(01).
12. Norris, R.D., P.A. Wilson, P. Blum, and the Expedition 342 Scientists, 2014. Proceedings of the Integrated Ocean Drilling Program, 342. Tokyo (IODP Management International, Inc.).
11. Li, Z.*, L. Ding, **P.C. Lippert**, and H. Wei, 2013. Paleomagnetic constraints on the Cenozoic kinematic evolution of the Pamir plateau from the Western Kunlun Shan foreland. *Tectonophysics*, 603, 257-271, doi:10.1016/j.tecto.2013.05.040.
10. Huang, W.T.*, G. Dupont-Nivet, G., **P.C. Lippert**, D.J.J. van Hinsbergen, and E. Hallot, 2013. Inclination shallowing in Eocene Linzizong sedimentary rocks from Southern Tibet: correction, possible causes and implications for reconstructing the India-Asia collision. *Geophys. J. Int.*, 194, 1390-1411, doi:10.1093/gji/ggt188.
9. Expedition 342 Scientists, 2012. *Leg 342 Preliminary Report*. Integrated Ocean Drilling Program Management Program, Inc. (College Station, TX). 263 pages. doi: 10.2204/iodp.pr.342.2012.
Available online at: http://publications.iodp.org/preliminary_report/342/
8. van Hinsbergen, D.J.J., **P.C. Lippert**, G. Dupont-Nivet, N. McQuarrie, P.V. Doubrovine, W. Spakman , and T.H. Torsvik, 2012. Greater India Basin Hypothesis and a two-stage Cenozoic collision between India and Asia. *Proc. Nat. Acad. Sci. USA*, 109, 7659-7664, doi: 10.1073/pnas.1117262109.
7. Schwartz, H., P.R. Renne, L.E. Morgan*, M.W. Wildgoose**, **P.C. Lippert**, S.R. Frost, K. Harvati, F. Schrenk, and C. Saanane, 2012. Geochronology of the Manyara Beds, northern Tanzania: Stratigraphy and new magnetostratigraphy and $^{40}Ar/^{39}Ar$ ages. *Quaternary Geochronology*, 7, 48-66, doi:10.1016/j.quageo.2011.09.002.
6. van Hinsbergen, D.J.J., P. Kapp, G. Dupont-Nivet, **P.C. Lippert**, P.G. DeCelles, and T.H. Torsvik, 2011. Restoration of Cenozoic Deformation in Asia, and the size of Greater India. *Tectonics*, 30, TC5003, doi:10.1029/2011TC002908.
5. **Lippert, P.C.**, X.X. Zhao, R.S. Coe, and C.H. Lo, 2011. Palaeomagnetism and $^{40}Ar/^{39}Ar$ Geochronology of upper Palaeogene volcanic Rocks from Central Tibet: Implications for the Central Asia inclination anomaly, the palaeolatitude of Tibet, and post-50 Ma shortening within Asia. *Geophys. J. Int.*, 184, 131-161, doi: 10.1111/j.1365-246X.2010.04833.x.
4. Dupont-Nivet, G., **P.C. Lippert,** D.J.J. van Hinsbergen, M.J.M. Meijers, and P. Kapp, 2010. Palaeolatitude and age of the Indo-Asia collision: Palaeomagnetic constraints. *Geophys. J. Int.*, 182: 1189-1198, doi:10.1111/j.1365-246X.2010.04698.x.
3. Wang, C.S., X.X. Zhao, Z.F. Liu, **P.C. Lippert**, S.A. Graham, R.S. Coe, H.S. Yi, L.D. Zhu, S. Liu, and Y.L. Li, 2008. Constraints on the early uplift history of the Tibetan plateau: *Proc. Nat. Acad. Sci. USA*, 105, 4987-4992, doi:10.1073.pnas.0703595105.
2. **Lippert, P.C.** and J.C. Zachos, 2007. A biogenic origin for anomalous fine-grained magnetic material at the Paleocene-Eocene boundary at Wilson Lake, New Jersey. *Paleoceanography*, 22, PA4104, doi:10.1029/2007PA001471.
1. Zhao, X.X., P. Riisager, M. Antretter, J. Carlut, **P.C. Lippert**, Q.S. Liu, G. Galbrun, S. Hall, H. Delius, and T. Kanamatsu, 2006, Unraveling the magnetic carriers of igneous cores from the Atlantic, Pacific, and the southern Indian oceans with rock magnetic characterization. *Physics of the Earth and Planetary Interiors*, 156: 294-238, doi:10.1016/j.pepi.2005.08.005.

## PUBLISHED COMMENTARIES, COMMENTS, & REPLIES

5. van Hinsbergen, D.J.J., **P.C. Lippert**, and W.T. Huang^, 2017. Unfeasible subduction? *Nature Geoscience*, 10(12), 878-879, doi:10.1038/s41561-017-0017-0.
4. Huang, W.T.^, **P.C. Lippert**, M.J. Jackson, M.J. Dekkers, Y. Zhang, J. Li, Z.J. Guo, P. Kapp, and D.J.J. van Hinsbergen, 2017. Reply to comment by Yi et al. on "Remagnetization of the Paleogene Tibetan Himalayan carbonates in the Gamba area: Implications for reconstructing the lower plate in the India-Asia collision." *JGR-Solid Earth*, 122, 4859-4863, doi:10.1002/2017JB014447.
3. van Hinsbergen, D.J.J., **P.C. Lippert**, G. Dupont-Nivet, N. McQuarrie, P.V. Doubrovine, W. Spakman, and T.H. Torsvik, 2012. Reply to Aitchison and Ali: Reconciling Himalayan ophiolite obduction and Asian magmatic arc records with a two-stage India-Asia collision model. *Proc. Nat. Acad. Sci. USA.* Published online, doi:10.1073/pnas.1208836109.
2. van Hinsbergen, D. J. J., **P. C. Lippert**, G. Dupont-Nivet, P. Kapp, P. G. DeCelles, and T. H. Torsvik, 2012. Reply to comment by Ali and Aitchison on "Restoration of Cenozoic deformation in Asia, and the size of Greater India." *Tectonics*, 31, TC4007, doi:10.1029/2012tc003144.
1. **Lippert, P.C.**, 2008, Big discovery for biogenic magnetite. *Proc. Nat. Acad. Sci. USA*, v. 105, p. 17595-17596, doi:10.1073.pnas.0809839105.

## SELECT MEETING PRESENTATIONS

**(^= postdoc, *= graduate student, **=undergraduate student; bold if I have had a direct & signficant advisory role)**
Continuous only since 2014

54. Jackson, M.D., **P.C. Lippert**, J.M. Marquardt*****, M.J. Heap, J.G. Moore, M. Rhodes, T. Weisenberger, and M.T. Gudmundsson. Decmeber 2018. Evolving magnetic and material properties of 50-year-old basaltic tuff, SUSTAIN drilling project, Surtsey volcano, Iceland. *American Geophysical Union Fall Meeting*, Abstract *not yet assigned*, Washington, D.C.
53. Ran, Z., D.B. Jiang, G. Ramstein, Z.S. Zhang, **P.C. Lippert**, and E.T. Yu. December 2018. Changes in Tibetan Plateau latitude as an important factor for understanding East Asian climate since the Eocene: A modeling study. *American Geophysical Union Fall Meeting*, Abstract *not yet assigned*, Washington, D.C.
52. Rivera, T.A., M.D. Schmitz, B.R. Jicha, and **P.C. Lippert**. November 2018. The Lyle Spring magmatic system of the Yellowstone volcanic field. *Geological Society of America Annual Meeting*, Abstract *not yet assigned*, Indianapolis, Indiana.
51. Beno, C.J., M.A. Chan, T.E. Cerling, **P.C. Lippert**. November 2018. Aesthetic countertop geology displays for introductory to advanced geoscience classes. *Geological Society of America Annual Meeting*, Abstract *not yet assigned*, Indianapolis, Indiana.
50. Peacock, H.**, T. Rivera, G. Rea-Downing*****, **P.C. Lippert**, S. Kirby, B.R. Jicha. November 2018. Revisiting the Quaternary rhyolites of the Mineral Mountains: New 40Ar/39Ar geochronology, paleomagnetic, and geochemical data. *Geological Society of America Annual Meeting*, Abstract *not yet assigned*, Indianapolis, Indiana.
49. Wagner, C.*****, **P.C. Lippert**, P. Stassen, E. Thomas, and R.P. Speijer. September 2018. Magnetofossil, magnetic particle, and microfossil assemblages in a subtropical coastal environment: Environmental change across the Paleocene-Eocene Thermal Maximum. *International Conference on Magnetotactic Bacteria*, Poster #7. Kanazawa, Japan.
48. Jackson, M.D., and 10 co-authors. April 2018. ICDP SUSTAIN drilling at Surtsey Volcano: A time-lapse drill core record and hydrothermal borehole observatory in basalt 50 years after eruption. *European Geosciences Union General Assembly*. Abstract EGU2018-11324, Vienna, Austria. *Talk.*
47. Ran, Z., D.B. Jiang, G. Ramstein, Z.S. Zhang, **P.C. Lippert**, and E.T. Yu. April 2018. From Eocene to present day, the northward drift of the Tibetan plateau as a key factor for understanding East Asian Climate. *European Geosciences Union General Assembly*. Abstract EGU2018-12608, Vienna, Austria. *Talk.*
46. Egger, L.M.*, A. Bahr, O. Friedrich, P.A. Wilson, R.D. Norris, T.E. van Peer*****, **P.C. Lippert**, D. Liebrand^, and J. Pross. April 2018. Sea-level and surface-water change in the western North Atlantic across the Oligocene-Miocene Transition: A palynological perspective from IODP Site 1406 (Newfoundland margin). *European Geosciences Union General Assembly*. Abstract EGU2018-17948, Vienna, Austria. *Poster.*
45. van Hinsbergen, D.J.J., S.H. Li^, **P.C. Lippert**, W.T. Huang^, E.L. Advokaat^, and W. Spakman. March 2018. Reconstructing Greater India: Paleogeographic, kinematic, and geodynamic perspectives. *17th Symposium of Tectonics, Structural Geology, and Crystalline Geology*. Contribution 144. Jena, Germany. *Talk.*
44. Rymer, A.M., D. Hurley, K. Mandt, C. Bradburne, D.A. Bazylinski, **P.C. Lippert**, J. DiRuggiero, and J. Nunez. March 2018. Magnetofossil chains and cellular size on Earth and expectations for other planets. *49th Lunar & Planetary Science Conference*. The Woodlands, TX. *Talk.*
43. **P.C. Lippert**, G. Rea-Downing*****, and M.A. Chan. January 2018. Beyond hand samples: Bringing the outcrop to the students with architectural rock slabs. *2018 Structural Geology & Tectonics Forum*. Tempe, Arizona. *Poster*.
42. Chan, M.A. and **P.C. Lippert**. December 2017. The confluence of science and art in educational environments. *AGU Fall Meeting*. New Orleans, Louisiana. *Poster*

41. Rea-Downing, G.*****, **P.C. Lippert**, and M. Stearns. December 2017. Petrochronlogy of Granitoids in the Langshan reveals Carboniferous plutonism along the northeast edge of the Alxa block (NW China). *AGU Fall Meeting*, Abstract V13B-0380. New Orleans, Louisiana. *Poster.*
40. van Hinsbergen, D.J.J., S.H. Li^, **P.C. Lippert**, W.T. Huang^, E.L. Advokaat^, and W. Spakman. December 2017. Reconstructing the paleogeography and subduction geodynamics of Greater India: How to apply Ockham's Razor? *AGU Fall Meeting*, Abstract T34E-01. New Orleans, Louisiana. *Talk.*
39. Henderson, S.******, T.A. Rivera, **P.C. Lippert**, and B.R. Jicha. October 2017. A Quaternary record of volcansim, lakes, and seismicity in Swan Valley, Idaho. *GSA Annual Meeting*, Abstract 72-12. Seattle, Washington. *Poster.*
38. Song, P.P.^, L. Ding, Z.Y. Li, **P.C. Lippert**, and Y.H. Yue. October 2017. An early bird from Gondwana: Paleomagnetism of Lower Permian lavas from northern Qiangtang (Tibet) and the geography of the Paleo-Tethys. *GSA Annual Meeting*, Abstract 218-8. Seattle, Washington. *Talk.*
37. Wagner, C.L.***** and **P.C. Lippert**. September 2017. Environmental change in a neritic setting before, during, and after the Paleocene-Eocene Thermal Maximum: Insights from magnetofossil and microfossil assemblages. *Climatic and Biotic Events of the Paleogene 2017*. Snowbird, Utah. *Poster.*
36. Owen Jones, G.A.*****, S.M. Bohaty, R. Pancost, D. Naafs, M. Carmichael, **P.C. Lippert**, D. Liebrand^, T.E. van Peer*****, U. Röhl, B.W. Romans, and P.A. Wilson. July 2017. Oligocene stratigraphy and palaeoceanography of Newfoundland margin sediment drifts (IODP Exp. 342). *Urbino Summer School in Paleoclimatology*. Urbino, Italy. *Poster*.
35. **P.C. Lippert** and P.W. Reiners. July 2017. Iron in the fire: Using controlled heating experiments, high-resolution FORCs, and low-temperature remanence experiments to reveal fire's magnetic fingerprint. *The International Conference on Rock Magnetism 2017*. Utrecht, The Netherlands. *Poster*.
34. Zhang, R., D.B. Jiang, G. Ramstein, Z.S. Zhang, **P.C. Lippert**, and E.T Yu. April 2017. The northward shift of the Tibetan Plateau as an important factor for understanding East Asian climate during the Cenozoic. *EGU General Assembly*. Abstract EGU2017-11924, Vienna, Switzerland. *Poster*.
33. Wagner, C.***** and **P.C. Lippert**. April 2017. Relating magnetotactic bacteria and microfossil assemblages in coastal environments to environmental change before, during, and after an abrupt global warming event. *Rocky Mountain GeoBiology Symposium*. Golden, Colorado. *Poster*.
32. Wagner, C.***** and **P.C. Lippert**. February 2017. Relating magnetotactic bacteria and microfossil assemblages in coastal environments to environmental change before, during, and after an abrupt global warming event. *Global Change and Sustainability Center Research Symposium*. Salt Lake City, Utah. *Poster*.
31. **P.C. Lippert**, V.E. Taylor*****, S.M. Bohaty, C. Wagner*****, C. Xuan, and P.A. Wilson. December 2016. The demise of a diverse magnetofossil assemblage across the Eocene-Oligocene Transition in a Northwest Atlantic sediment drift. *AGU Fall Meeting*, Abstract GP34D-02, San Francisco, California. *Invited Talk*
30. Huang, W.^, **P.C. Lippert**, M.J. Jackson, M.J. Dekkers, Y. Zhang, J. Li, X.H. Hu, and Z.J. Guo. December 2016. Remagnetization of carbonate rocks in southern Tibet: Perspective from rock magnetic and petrographic investigation. *AGU Fall Meeting*, Abstract GP31A-1291, San Francisco, California. *Poster*
29. van Peer, T.*****, C. Xuan, D. Liebrand^, **P.C. Lippert**, and P.A. Wilson. December 2016. Astrochronology of a late Oligocene to early Miocene magnetostratigraphy from the northwest Atlantic. *AGU Fall Meeting*, Abstract GP43B-1244, San Francisco, California. *Poster*
28. Owen Jones, G.*****, S.M. Bohaty, P.A. Wilson, **P.C. Lippert**, T. van Peer*****, and D. Liebrand^. November 2016. Early-to-Mid Oligocene stratigraphy and palaeoceanography of Newfoundland margin sediment drifts (IODP Exp. 342). *2016 UK IODP General Conference*, Royal Geographical Society, London. *Poster*
27. Darata, R.C.******, T.A. Rivera, **P.C. Lippert**, B.R. Jicha, and M.D. Schmitz. September 2016. $^{40}Ar/^{39}Ar$ Sanidine Dating and Paleomagnetic Analysis of the Blue Creek Flow (Yellowstone Volcanic Field). *GSA Annual Meeting*, Abstract 284541, Denver, Colorado. *Talk*
26. Furlong, R.V.******, T.A. Rivera, **P.C. Lippert**, B.R. Jicha, and M.D. Schmitz. September 2016. New $^{40}Ar/^{39}Ar$ and paleomagnetic data from the Bishop Mountain Flow, Yellowstone Volcanic Field. *GSA Annual Meeting*, Abstract 278829, Denver, Colorado. *Poster*
25. Vincent, J.S.******, T.A. Rivera, B.R. Jicha, **P.C. Lippert**, and M.D. Schmitz. September 2016. Lithology of the Tuff of Lyle Springs, Yellowstone Volcanic Field. *GSA Annual Meeting*, Abstract 283812, Denver, Colorado. *Poster*
24. Zhuang, G.S., S. Johnstone, J.K. Hourigan, **P.C. Lippert**, B. Ritts, A.C. Robinson, and E. Sobel. September 2016. Partitioning of crustal shortening in the northern Tibetan Plateau: Constraints from thermochrology studies. *GSA Annual Meeting*, Abstract 284647, Denver, Colorado. *Talk*
23. Taylor, V.E.*****, **P.C. Lippert**, C. Xuan, S.M. Bohaty, P.A. Wilson, D. Liebrand^. August 2016. High-resolution geochemical and magnetic records from a new benchmark deep sea section across the Eocene-Oligocene transition. *International Conference on Paleoceanography*, Utrecht, The Netherlands. *Poster*.

22. van Peer, T.E.*****, C. Xuan, **P.C. Lippert**, P.A. Wilson, and D. Liebrand^. April 2016. A northwest Atlantic environmental magnetic perspective on the Oligocene-Miocene Transition. *EGU General Assembly*, Abstract EGU2016-9881, Vienna, Austria. *Talk.*
21. Li, Z.Y., **P.C. Lippert**, L. Ding, P.P. Song^, Y.H. Yue, D.J.J. van Hinsbergern. April 2016. Paleomagnetic constraints on the Mesozoic drift of the Lhasa terrane (Tibet) from Gondwana to Eurasia. *EGU General Assembly*, Abstract EGU2016-7012. *Talk.*
20. **Lippert, P.C.**, D.J.J. van Hinsbergen, W.T. Huang*****, and G. Dupont-Nivet. November 2015. A Great Greater India: A paleomagnetic perspective on the amount of Cenozoic subduction and underthrusting within the Central Himalaya. *GSA Annual Meeting*, Abstract 105-1, Baltimore, Maryland. *Invited talk to GSA Special Nepal (Gorkha) Earthquake Session.*
19. **Lippert, P.C.**, W.T. Huang*****, D.J.J. van Hinsbergen, L. Ding, Z.Y. Li, and G. Dupont-Nivet. November 2015. Lhasa's Jurassic-to-Paleocene Latitude: Implications for the Cenozoic Tectonics and Climate of Tibet. *GSA Annual Meeting*, Abstract 7-9, Baltimore, Maryland. *Invited talk to Bridging Two Continents*.
18. van Peer, T.E.*****, C. Xuan, P.A. Wilson, D. Liebrand^, and **P.C. Lippert**. April 2015. Revised Late Oligocene to Early Miocene magnetic stratigrapy recorded by drift sediments at Sites U1405 and U1406, IODP Expedition 342 (Newfoundland, NW Atlantic). *EGU General Assembly*, Abstract EGU2015-7441, Vienna, Austria. *Poster.*
17. van Peer, T.E.*****, C. Xuan, P.A. Wilson, D. Liebrand^, and **P.C. Lippert**. January 2015. Revised Late Oligocene to Early Miocene magnetic stratigraphy recorded by drift sediments at Site U1406, IODP Expedition 342 (Newfoundland, northwest Atlantic). *Magnetic Interactions*, Leeds, United Kingdom. *Poster.*
16. **Lippert, P.C.** and P.W. Reiners. December 2014. Iron in the Fire: Searching for fire's magnetic fingerprint using controlled heating experiments, high-resolution FORCs, IRM coercivity spectra, and low-temperature remanence experiments. *EOS Trans. AGU Fall Meet. Suppl. 93*, Abstract GP12A-08. *Talk.*
15. Huang, W.T.*****, D.J.J. van Hinsbergen, M. Dekkers, E. Garzanti, G. Dupont-Nivet, **P.C. Lippert**, X.C. Li, M. Maffione, C. Langereis, X.M. Hu, Z.J. Guo, and P. Kapp. December 2014. Chemical remagnetization of Jurassic carbonates and a primary paleolatitude of Lower Cretaceous volcanoclastic rocks of the Tibetan Himalaya. *EOS Trans. AGU Fall Meet. Suppl. 93*, Abstract GP43A-3625. *Poster.*
14. van Peer, T.E.*****, C. Xuan, P.A. Wilson, D. Liebrand, **P.C. Lippert**. November 2014. Late Oligocene to Early Miocene magnetic stratigraphy recorded by drift sediments at Site U1406, IODP Expedition 342 (Newfoundland, northwest Atlantic), *UK IODP Conference*, London, United Kingdom. *Poster*.
13. **Lippert, P.C.** and P.W. Reiners. September 2014. Iron in the Fire. *CIFAR Annual Interaction Meeting*. Whistler, Canada. *Talk.*
12. Huang, W.T.*****, G. Dupont-Nivet, D.J.J. van Hinsbergen, **P.C. Lippert**, M.J. Dekkers, Z.J. Guo, X.C. Li, and X.R. Zhang. April 2014. Constraining the India-Asia collision by retrieving the paleolatitude from partially remagnetized Paleogene volcanics in the Nanmulin Basin (southern Tibet). *EGU General Assembly*, Abstract EGU2014-13495, Vienna, Austria. *Poster*.
11. Huang, W.T.*****, G. Dupont-Nivet, D.J.J. van Hinsbergen, **P.C. Lippert**, M.J. Dekkers, Z.J. Guo, X.C. Li, and X.R. Zhang. April 2014. Constraining the India-Asia collision by retrieving the paleolatitude from partially remagnetized Paleogene volcanics in the Nanmulin Basin (southern Tibet). *Nederlands Aardwetenschappelijk Congres*, Koningshof, Veldhoven, Netherlands. *Talk.*
10. **Lippert, P.C.**, D.J.J. van Hinsbergen, G. Dupont-Nivet, W.T. Huang*****. December 2013. What can the Cretaceous-to-present latitude history of the Lhasa terrane tell us about plate-scale deformation in the Tibetan-Himalayan Orogen? *EOS Trans. AGU Fall Meet. Suppl. 92*, Abstract GP12A-05. *Invited talk*.
9. **Lippert, P.C.**, W.T. Huang*****, D.J.J. van Hinsbergen, G. Dupont-Nivet. December 2013. Why do paleomagnetic studies in Tibet lead to such disparate paleolatitude estimates? *EOS Trans AGU Fall Meet. Suppl. 92*, Abstract T41E-03. *Invited talk*.
8. **Lippert, P.C.**, G. Dupont-Nivet, D.J.J. van Hinsbergen, P.A. Kapp, and X.X. Zhao, December 2011. Timing and distribution of tectonic rotations in the Lhasa and Qiangtang terranes. *EOS Trans AGU Fall Meet. Suppl. 92*, Abstract T52D-2375. *Poster.*
7. ******Shumaker, L., **P.C. Lippert**, B.J. Darby, B.D. Ritts, and R.S. Coe, Dec. 2010. Post-Cretaceous sinistral transpression in southwest Alxa: Structural and paleomagnetic insights into the long-term slip history of the Altyn Tagh Fault. *EOS Trans. AGU Fall Meet. Suppl.*, 91, Abstract T43B-2191. *Poster.*
6. Snell, K.E., **P.C. Lippert**, and J.A. Eiler, June 2010. Stable and clumped isotope analysis of Eocene Fenghuo Shan group sediments and implications for Paleoelevation estimates and carbonate diagenesis. *25th Himalaya-Karakorum-Tibet Workshop*, San Francisco, CA. *Poster.*
5. **Lippert, P.C.**, Dec. 2009. Magnetofossils as biomarkers of environmental change: A multiproxy example from the Paleocene-Eocene continental shelves of North America. *EOS Trans AGU Fall Meet. Suppl., 90*, Abstract GP42A-04. *Invited talk*.

4. **Lippert, P.C.**, and J.C. Zachos, Sept. 2007. A biogenic origin for anomalous fine-grained magnetic particles at the Paleocene-Eocene boundary at Wilson Lake, NJ. *9th International Conference on Paleoceanography*, Shanghai, P.R. China. *Poster.*
3. **Lippert, P.C.**, J.C. Zachos, S. Bohaty, and T. Quattlebaum, Dec. 2004. Rock magnetic properties across Paleocene-Eocene boundary sediments from the North Atlantic, South Atlantic, and Eastern Pacific. *EOS Trans., AGU, 85: Fall Meet.*, Suppl., Abstract GP31B-0840. *Poster.*
2. Tarduno, J.A., R.D. Cottrell, **P. Lippert**, and M. Friedman, July 2002. Extreme climates recorded in the Cretaceous High Arctic. *Workshop on Cretaceous Climate and Ocean Dynamics* (JOI/USSAP, NSF). Florissant, CO. *Poster.*
1. **Lippert, P.C.**, and J.A. Tarduno, May 2002. Magnetostratigraphy of the Early Cretaceous Sverdrup Basin (Canadian Arctic): Implications for the nature of short term Valanginian glacial episodes. *National Conference for Undergraduate Research*, Whitewater, WI. *Talk.*

**INVITED TALKS**

**2018** Utah Valley University (September)
**2017** Weber State (March)
**2016** AGU (Dec.)
**2015** Idaho State (Feb); UC Davis (March); College of the Atlantic (April); Institute for Geology & Geophysics, Chinese Academy of Sciences (June); China University of Geosciences (June); Institute for Tibetan Plateau Research (July); GSA Fall Meeting, 2x (Nov.)
**2014** IRM, Univ. Minnesota (Jan.); Utah State (Nov.)
**2013** IRM, Univ. Minnesota (July); AGU Fall Meeting, 2x (Dec.)
**2012** NOC Southampton (March); Caltech (May); Univ. Utrecht (Nov.); Univ. Utah (2012)
**2011** Univ. Arizona (Sept.)
**2010** Univ. Utrecht (March); Univ. Arizona (Nov.)
**2009** AGU Fall Meeting (Dec.)

## STUDENTS and VISITORS

### UNDERGRADUATE STUDENTS

***Utah***

Thomas Chalmers (F15-S16), Noah Cornelius (F15-S16), Wan Neng (S17), Yinbing Zhu (S17), James Kowalski (F17-present, UROP-supported undergraduate research during Summer 2018 and Fall 2018)

***UC Santa Cruz***

Lauren Shumaker, Honors B.Sci, UC Santa Cruz, June 2010. *Paleomagnetism of the Lower Cretaceous Xinminpu Group, Western Hei Shan, Northwest China: Implications for the Long Term Slip History of the Altyn Tagh Fault.*

Stephanie Woirol, Honors B.Sci., UC Santa Cruz, June 2008. *A Paleomagnetic Study of Mid-Cretaceous Volcanic and Volcanoclastic Rocks from the Nima Basin, Qiangtang, Central Tibet.*

Philip Lee, Honors B.Sci, UC Santa Cruz, June 2008. *A Paleomagnetic Study of Oligocene Redbeds from the Northern Nima Basin, Central Tibet* (thesis included 4 weeks of field work in Central Tibet).

4 additional undergraduate student research mentorships between 2008-2010

### GRADUATE STUDENTS

***Utah***

Grant Rea-Downing, PhD, University of Utah, anticipated September 2019. *Polyphase intraplate deformation of eastern Alxa, Northwest China.*

*Student Awards*: UMich Mountain Ranges & High Plateaus Summer School (2015); NSF EAPSI Fellowship (China, 2015); GSA Graduate Student Grant (2015); The David S. and Inga M. Chapman Fund (2016); Institute for Rock Magnetism Summer School in Rock Magnetism (2016)

Courtney Wagner, PhD, University of Utah, anticipated May 2020. *The Biodiversity and Paleoecology of Magnetotactic Bacteria in Modern and Ancient Extreme Environments.*

*Student Awards:* The David S. and Inga M. Chapman Fund (2016); Institute for Rock Magnetism Summer School in Rock Magnetism (2016); Univ. Utah. IsoCamp in Stable Isotope Biogeochemistry & Ecology (2016); the Urbino Summer School in Paleoclimatology (selected to attend, but did not participate, 2016, 2018); Institute for Rock Magnetism Visiting Fellowship (2016); NSF EAPSI Fellowship (China, 2017); Natural History Museum of Utah Science Communication Fellow (2018)

Robert Violano, Master of Science for Secondary School Teachers (MSSST), University of Utah, anticipated December 2018. *The Day the Fish Died: Magnetic & U-Pb Chronostratigraphy of Fossil Butte National Monument, Fossil Basin, WY.*

Joshua Marquardt, Master of Science, University of Utah, anticipated May 2020. Co-supervised with Marie Jackson. *The magnetic petrology of fluid-microbe-rock interactions in young oceanic crust from Surtsey volcano, Iceland.*

***Southampton***

Tim Van Peer, PhD, National Oceanographic Centre, Southampton, July 2017. Co-supervised with Chuang Xuan and Paul Wilson, *Oligocene-Miocene Palaeomagnetic and Environmental Magnetic Change at IODP Sites U1405 and U1406, and Astronomical Calibration of the Geomagnetic Polarity Time Scale*.
*Student Awards*: ECORD Urbino Summer School (2014); ESF Short Visit Grant (2014); IRM Visiting Fellowship (2015); IRM Summer School of Rock Magnetism (2015); EGU Outstanding Student Presentation Award (2015)

Vicki Taylor, Masters, National Oceanographic Centre, Southampton, July 2016. Co-supervised with Paul Wilson, Steven Bohaty, and Chuang Xuan, *A High-Resolution Rock Magnetic and Elemental Abundance Record of Precursor and Response Events to Oi-1 at IODP Site U1411, Newfoundland Ridge, North Atlantic.* Started a PhD program at Southampton August 2016.

Gwen Owen Jones, PhD, National Oceanographic Centre, Southampton, anticipated June 2019. External supervisor, with Steven Bohaty (Primary), Paul Wilson (co-), and Dennis Terry (external), *North American Climate History of the Early Icehouse*.

***Utrecht***

Wentao Huang, PhD, Utrecht University, April 2015. Co-supervised with Guillaume Dupont-Nivet and Douwe van Hinsbergen.
*Paleomagnetic constraints on tectonic reconstructions of the India-Asia collision zone*.
*Student Awards*: Renming Grant (2008); Studies Scholarship (2009); CSC Scholarship (2010-2012)

**THESIS COMMITTEES**

**Masters:** Julia Howe (Utah, S17); Stephen Potter (Utah, F17); Becky Dunleavy (Utah, F15)
**PhD:** Julia Mulhern (Utah, F16); David Wheatley (Utah, F17); Robert McDermott (Utah State); Gabrielle St. Pierre (Utah); Keegan Melstrom (Utah); Elizabeth Berg (Utah)

**POSTDOCS**

Wentao Huang, Arizona & Utah, co-supervised with Pete Reiners. Support from NWO Rubicon. 2016-2017.
Peiping Song, Utah. Support from the China Scholarship Council. Calendar year 2017.

**VISTING RESEARCHERS**

Jörg Pross, Professor of Palynology & Paleoenvironmental Dynamics, and Director, of Institute for Earth Sciences, Heidelberg University, Germany. May-September 2017

## ACTIVE RESEARCH COLLABORATORS (past two years, alphabetical order)

Arvid Aase (National Park Service), Alexis Ault (Utah State), John Bartley (Utah), Dennis Bazylinski (Nevada, Las Vegas), Steven Bohaty (NOC Southampton), Robert Coe (UCSC), Mark Dekkers (Utrecht), Brian Darby (ExxonMobil), George Davis (Arizona), Lin Ding (ITPR-CAS), Guillaume Dupont-Nivet (Potsdam), Wentao Huang (Rochester), Marie Jackson (Utah), Brian Jicha (Wisconsin), Cari Johnson (Utah), Paul Kapp (Arizona), Stefen Kirby (Utah Geol. Soc.), Ioan Lascu (Smithsonian), Ryan Leary (NM Tech), Zhenyu Li (ITPR-CAS), Diederik Liebrand (NOC Southampton), Shaofeng Liu (China Univ. Geosciences), Lowell Miyagi (Utah), Devon Orme (Montana), Jörg Pross (Heidelberg), Pete Reiners (Arizona), Susanne Renner (Potsdam), Brad Ritts (Standford), Tiffany Rivera (Westminster College), Brian Romans (Virginia Tech), Howie Scher (Univ. South Carolina), Peiping Song (ITPR-CAS), Mike Stearns (Utah Valley), John Tarduno (Rochester), Douwe van Hinsbergen (Utrecht), Paul Wilson (NOC Southampton), Chuang Xuan (NOC Southampton), Yuhji Yamamoto (Kochi), James Zachos (UCSC), Xixi Zhao (Tongji)

## FIELD EXPERIENCE

**Alxa, Inner Mongolia, and Qilian Shan:** paleomagnetic and structural sample collection and data analysis. 3 field seasons, 8.5 weeks.

**California Coast Ranges**: structural, tectonic, and geomorphic instruction. 2+ months

**Eastern California**: structural, tectonic, geomorphic, and sedimentological instruction. 3+ months

**Central Utah**: igneous processes, 2+ weeks

**SW Idaho**: igneous processes, 2+ weeks

**Central Anatolia**: regional tectonics. 10 days.

**High Canadian Arctic (Axel Heiberg & Ellesmere Islands):** paleomagnetic, stratigraphic, and paleontological sample collection; field mapping; paleomagnetic and biostratigraphic data analysis (undergraduate thesis). 2 field seasons, 9 weeks.

**North Atlantic:** measurement and interpretation of paleomagnetic data; construction of ship-board age models. Integrated Ocean Drilling Program (IODP) Leg 342, Paleogene Newfoundland Drift Sediments, onboard the *JOIDES Resolution*. 1 expedition, 8 weeks.

**Northern Ontario, Canada:** paleomagnetic sample collection. 2 weeks.

**Northern Tibet, PR China:** paleomagnetic, geochronologic, stratigraphic, stable isotope and provenance sample collection and data analysis. 4 field seasons, 12 weeks.

**Southern Tibet, PR China:** paleomagnetic sample collection and data analysis. 2 field seasons, 7 weeks.

## TEACHING ACTIVITIES

**Professional Teaching Development**

*2018 NSF FIELD Institute on Diversity & Inclusion in Field Geoscience*. October 3-7, 2018.

*2018 Structural Geology & Tectonics Forum*, Tempe, Arizona. January 4-7, 2018.

*Faculty as Designers of Student Success: A Symposium on Teaching & Learning*, organized by the Center for Teaching & Learning Excellence, Univ. of Utah. Selected participant. September 29-30, November 8, 2016.

*Early Career Geoscience Faulty: Teaching, Research, and Managing Your Career Workshop*, organized by the National Science Foundation, Science Eduction Resource Center, and the National Association for Geoscience Teachers. College Park, Maryland. Participating member. July 24-29, 2016.

**Course Instruction**

Field Geology & GIS (*UCSC*: S2009, S2010), capstone course for majors

Living with Earthquakes (*Utah*: S2018, S2019), general education science foundation and international course

Structural Geology & Tectonics (*Utah*: F2014, F2015, F2016, F2017), core curriculum for Geoscience, Geological Engineering, and Mining Engineering majors

Tectonics of Sedimentary Basins (*Utah*: S2015, S2017, S2019), upper-level undergraduate and graduate student elective course; co-taught with Cari Johnson

Field Methods in Tectonics of Sedimentary Basins (*Utah*: S2017, S2019), week-long upper-level undergraduate and graduate student elective field course; co-taught with Cari Johnson

The Magnetic Earth (*Utah*: S2016, F2018), upper-level undergraduate and graduate student elective course

Tectonics Reading Group: Global Tectonics: The View from the Mantle (*Utah*: F2015), upper-level undergraduate and graduate student elective course

Tectonics Reading Group: Controversy in the North American Cordillera (*Utah*: S2016), upper-level undergraduate and graduate student elective course

Tectonics Reading Group: Strain Partitioning in Eastern California (*Utah*: F2017), upper-level undergraduate and graduate student elective course

Guest lectures in Geology of the National Parks, Earth History, The Oceans, Geodynamics, and Geohazards & Engineering Geomorphology.

**Teaching Assistant Appointments:** Field Geology and GIS (*UCSC:* 2006, 2007, 2008); Earth Catastrophes (*UCSC:* 2006); Geology of the National Parks (*UCSC:* 2006); Paleomagnetism (*UCSC:* 2003, 2004); Structural Geology (*UR:* 2001 *UCSC:* 2007, 2010); Field Geology (*UR:* 2000); Introduction to Physical Geology (*UR:* 2000)

## PROFESSIONAL AFFILIATIONS

American Geophysical Union (since 2001)

Geological Society of America (since 2004)

European Geosciences Union (since 2016)

American Association for the Advancement of Science (since December 2016)

National Association of Geoscience Teachers (since 2017)

## GRANTS AWARDED

**2016** IODP Science Support Office: *Full Proposal – Newfoundland Oligo-Miocene sediment drifts: Transition from the Paleogene greenhouse to the modern icehouse* to IODP. One of 21 proponents (1 of 3 US-based proponents). Submitted October 2016; recommended for next stage of review, January 2017.

**2014** Institute for Rock Magnetism Visiting Fellowship, University of Minnesota, Twin Cities: equivalent to **4,750 USD**

**2013** Institute for Rock Magnetism Visiting Fellowship, University of Minnesota, Twin Cities: equivalent to **4,750 USD**

**2012** Integrated Ocean Drilling Program Post-Expedition Activity Award: *Magnetostratigraphy of Upper Eocene to Lower Oligocene Drift Sediments from the North Atlantic (IODP Sites U1404, U1406, and U1411, Leg 342)*: **14,993 USD**

NSF Instruments & Facilities EAR-1053399: *Development of a 0.5 Tesla AF Demagnetizer*. (co-PI; Lead PI: R. Coe): **79,516 USD**

**2011** NSF Continental Dynamics EAR-1008527: *Collaborative Research: The Suturing Process: Insight from the India-Asia Collision Zone* (contributing author to successful proposal; Lead PI: P. Kapp).
*Effective Dates: June 2011-May 2015*
Award Amount to Date (2011-2012), total UA budget: **410,611 USD**

**2009** ExxonMobil Geosciences Student Grant (w/ K. Snell, UCSC): **5,000 USD**

**2007** NSF Tectonics EAR-0633891: Collaborative Research: Cenozoic Tectonics and Surface Uplift in North Central Tibet. (contributing author to successful proposal; Lead PI: X.X. Zhao).
*Effective dates: February 2007-January 2011*
UCSC Budget: **383,058 USD**

**2006** NSF Tectonics EAR-0608712: Collaborative Research: Did the Altyn Tagh Fault Continue beyond the Northern Margin of Tibet? Implications for Strain Accommodation During Continent-Continent Collision. (author of the paleomagnetic part of this proposal; PIs: B. Ritts & B. Darby).
*Effective dates: July 2006-June 2008*
total budget: **153,875 USD** (paleomagnetic component approximately 10,000 USD + overhead)

Sigma Xi Grants-in-Aid of Research: Paleogene elevation in North Central Tibet: Testing models for growth of the Tibetan Plateau: **500 USD**

Janice A. Nowell Memorial Fund Award for Microscopy: A biogenic origin for anomalous fine-grained magnetic particles at the Paleocene-Eocene boundary at Wilson Lake, NJ: A TEM test: **530 USD**

**2004** NSF EAPSI OISE-0413542: East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI), National Science Foundation (US), Chinese National Science Foundation, and Chinese Ministry of Science: **3000 USD + travel**

## SELECTED HONORS and AWARDS

**2017** Outstanding Faculty Teaching Award, Department of Geology & Geophysics, University of Utah

**2016** Outstanding Young Scientist Award, Earth Magnetism & Rock Physics (EMRP) Division, European Geosciences Union (*http://www.egu.eu/awards-medals/division-outstanding-ecs-award/2016/peter-c-lippert/*)

**2015** Visiting Scholar, China University of Geosciences, host: Shaofeng Liu; June-July 2015
Visiting Academic, University of Southampton; hosts: Chuang Xuan, Steven Bohaty, Paul Wilson; May-June 2015

**2012** Post-doctoral fellowship, Canadian Institute for Advanced Research (CIFAR): **100,000 USD**

**2008** Outstanding University Teaching Assistant Award, University of California, Santa Cruz: **200 USD**
Outstanding Teaching Assistant Award, Department of Earth & Planetary Sciences, UCSC

**2007** J. E. Caldwell Scholar, Achievement Rewards for College Scientists (ARCS) Scholar: **10,000 USD**
Outstanding Teaching Assistant Award, Department of Earth & Planetary Sciences, UCSC

**2005** Martin Van Couvering Award, American Association of Petroleum Geologists: **200 USD**

**2003** Univ. California Regents Fellowship (equivalent to 1 quarter of graduate tuition at UCSC): **est. 3000 USD**

**2002** Barth-Crapsey Undergraduate Research Grant for Humanities & Social Sciences
*From Sympathy to Efficiency: The Social Transformation of the Early 20th Century American Hospital System*: **500 USD**

Elected to Phi Beta Kappa, Iota of New York Chapter

Take-5 Scholars Fellowship Program, University of Rochester:
*The Social History and Anthropology of Early 20th Century Science, Medicine, and Technology*
(equivalent to 1 full year of tuition and fees at the Univ. Rochester): **est. 28,000 USD**

## SYNERGISTIC ACTIVITIES

### REVIEWING

Reviewer for: Earth and Planetary Science Letters (Outstanding Reviewer Status); Journal of Geophysical Research; G-Cubed; Tectonics; Geophysical Research Letters; Nature Geoscience; Science Advances; Geology; Lithosphere; PNAS; GSAB; Basin Research; Paleoceanography/Paleoceanography & Paleoclimatology; Tectonophysics; Physics of the Earth & Planetary Interiors; Journal of Asian Earth Sciences; Palaeogeography, Palaeoclimatology, Palaeoecology; Newsletters on Stratigraphy; Gondwana Research; Geosciences; Integrated Ocean Drilling Program; ASC Earth & Space Chemistry.
*Minimum of 10 manuscript reviews/yr.*

Reviewer for: NSF Tectonics Program; NSF Marine Geology & Geophysics Program; American Chemical Society.
*Minimum of 2 proposal reviews/yr.*

Review Editor for Geomagnetism & Paleomagnetism, Frontiers in Earth Science (March 2016-present)

Editorial Board, Newsletters on Stratigraphy (since June 2016)

co-Editor for special issue of *Paleoceanography & Paleoclimatology*: Climatic & Biotic Events of the Paleogene (2018)

Proposal Review Coordinator for Undergraduate Research Opportunties Program for the College of Mines & Earth Science (April 2016)

Review Committee for Univ. Utah Global Change & Sustainability Center Student Research & Travel Grants (Fall 2016, Spring 2017)

Editorial Committee, IODP Expedition 342 (January 2013)

Student Voting member: Take-5 Scholars Program Review Board, University of Rochester (2002-2003)

Editor: jur: Journal of Undergraduate Research, University of Rochester (2002-2003)
See http://sa.rochester.edu/jur/issues.html

### SCIENTIFIC SOCIETIES

Session Co-Convener: *The North Atlantic Region at Transition and During the Early Icehouse World*, AGU Fall Meeting, Washington DC (December 2018)

Session Co-Organizer: *Effective Teaching of Structural Geology & Tectonics in the 21st Century*, 5th Biennial Structural Geology & Tectonics Forum, Tempe, AZ serc.carleton.edu/NAGTWorkshops/structure/2018_Forum/gen_sched.html (January 4-7, 2018)

Meeting Co-Convener and Co-Host: *Climate and Biotic Events of the Paleogene (CBEP) 2017*; Snowbird Resort, Salt Lake City, UT http://cbep2017.utah.edu (September 3-9, 2017)

National Science Foundation, *Future Directions in Structural Geology & Tectonics Workshop*, Madison, Wisconsin. Participating and contributing member of panel. (May 20-22, 2016)

Meeting Convener, Organizer, and Chair: *Post-Cruise Science Meeting for IODP Expedition 342, Paleogene Newfoundland Sediment Drifts*, Snowbird Resort, Salt Lake City, UT (September 23-27, 2015)

Session Co-Convener & Co-Chair: *Characterizing Fault Zones in Space, Time, Temparture, and Texture*, AGU Fall Meeting, San Francisco (December 2015)

Session Co-Convener & Co-Chair: *Late Paleozoic-Mesozoic Geology of the Tibetan Plateau*, AOGS Annual Meeting, Singapore (August 2015)

*First Order Reversal Curve (FORC) Workshop*, Minneapolis, Minnesota (July 23-24, 2015)

*North Atlantic Drilling for Climate Dynamics Workshop*, Heidelberg, Germany. Contributing member to IODP Pre-Proposal *Newfoundland Neogene Sediment Drifts: Transition from the Paleogene Greenhouse to the Modern Icehouse* (September 15-17, 2014)

Session Co-Convener & Co-Chair: *Continent-Continent Suturing*, AGU Fall Meeting, San Francisco (December 2013)

### DEPARTMENT, COLLEGE, and UNIVERSITY SERVICE & OUTREACH

Undergraduate Affairs Committee, Dept. of Geology & Geophysics, U. Utah (July 2017-present)

Curriculum Committee (July 2017-present)

Outreach Committee (July 2017-present)

Faculty Representative for the University of Utah New Student Orientation program (Summer 2017, 2018)

Global Change & Sustainability Center Student Travel and Research Grant Review Committee (F2016, S2017)

*Ad hoc* committee for Phase 2 of Sutton Building Halls & Walls teaching rock collection (November 2015-June 2016, June 2017-present)

Search Committee, Dept. of Geology & Geophysics, U. Utah, *Igneous Processes*, 2017

Distinguished Lecture Series Committee, Dept. of Geology & Geophysics, U. Utah (September-December 2015, 2016, 2018)

Graduate Affairs Committee, Dept. of Geology & Geophysics, U. Utah (September 2014-July 2017)

Curriculum Assesment & Revision Committee, Chair of Dynamic Earth Subcommittee, Dept. of Geology & Geophysics, U. Utah (March 2015-May 2017)

Merit Review Committee, Dept. of Geology & Geophysics, U. Utah (September 2014-August 2015)

Education Outreach (with Dan Brinkhuis of ScienceMedia.nl) for IODP Expedition 342
See *http://www.youtube.com/user/oceanleadership*
Graduate Student Representative to Faculty: Earth Sciences Department (2005-2007)
Graduate Student Coordinator: Tectonics Reading Group (2005-2006)