

Curriculum vitae

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EDUCATION

- 1991*: Ph.D. geology (with honors), University of Kansas. Thesis: "Geology of the Mineral Mountains batholith, southwest Utah" Advisors: J.D. Walker and W.R. Van Schmus
- 1988*: M.S. geology (with honors), University of Kansas. Thesis: "Petrology and geochemistry of the volcanic rocks of the Nova Formation and Darwin Plateau, Death Valley, California: Implications for magmatic and tectonic processes in extensional orogens" Advisors: J.D. Walker and M.E. Bickford
- 1985*: B.S. geology (with honors, minor in chemistry), Texas Tech University. Thesis: "The geology of the Calumet sills and their relation to the Whitehorn Stock" Advisor: Calvin Barnes

PROFESSIONAL EXPERIENCE

- July 2018- June 2021*: Chair of Geological Sciences, University of North Carolina – Chapel Hill
- January 2017 – July 2108*: Associate Dean of First Year Curricula, University of North Carolina – Chapel Hill
- July 2015 – present*: Professor of Geological Sciences, University of North Carolina – Chapel Hill
- July 2013 – December 2016*: Assistant Dean of First Year Seminars, University of North Carolina – Chapel Hill
- July, 2009-2013*: Jaroslav Folda Distinguished Term Associate Professor in Research and Undergraduate Teaching, University of North Carolina – Chapel Hill
- 2005-2009*: Associate Professor of Geological Sciences, University of North Carolina.
Member of Carolina Environmental Program Faculty; Research Associate in the Research Laboratories in Archaeology
- 2001-2005*: Assistant Professor of Geological Sciences, University of North Carolina
- 1996-2001*: Assistant Professor of Earth Sciences, Boston University
- 1992-1996*: Post-Doctoral Research Scientist, Massachusetts Institute of Technology
- 1991-1992*: Post-Doctoral Research Scientist, University of North Carolina

HONORS

- 2020*: J. Carlyle Sitterson Freshman Teaching Award, University of North Carolina
- 2017*: Fellow, Geological Society of America
Distinguished Alumni Honors in Geology, University of Kansas
- 2009*: Class of 1996 Excellence in Advising Award, University of North Carolina

HONORS (continued)

2006: J. Carlyle Sitterson Freshman Teaching Award, University of North Carolina

BOOK CHAPTERS

Alconini, S., Blom, D. and **Coleman, D.**, 2019, Paleomobilidad y origen estudios de estroncio radiogénico: *in* Alconini, S. (ed.) El Cementerio Prehispánico de Incahuasi: Una Mirada desde la Variante Oriental de los Andes del Sur, , Bolivia, p. Grupo Editorial La Hoguera, p. 339-374.

Goodman, A., Jones, J., Reid, J., Mack, M., Blakey, M., Amarasiriwardena, D., Burton P. and **Coleman, D.**, 2004, Isotopic and elemental chemistry of teeth: Implications for places of birth, forced migration patterns, nutritional status and pollution: *in* Blakey, M.L. and Rankin-Hill, L.M. (eds.) New York African Burial Ground Skeletal Biology Report, Volume 1, Howard University, Washington, D.C., p.217-268.

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Bartley, J.M., Glazner, A.F., Stearns, M.A. and **Coleman, D.S.**, 2020, The granite aqueduct and autometamorphism of plutons: *Geosciences*, v. 10, no. 136, p. 1-12. doi:10.3390/geosciences10040136.

Glazner, A.F., Bartley, J.M., **Coleman, D.S.** and Lindgren, K., 2020, Aplite dike and infiltration: a differentiation mechanism restricted to plutonic rocks: *Contributions to Mineralogy and Petrology*, v. 175:37. /doi.org/10.1007/s00410-020-01677-1

Standen, V.G., Santoro, C.M., Arriaza, B., **Coleman D.**, Monsalve, S., Marquet, P.A., 2020, Violence in hunters, fishermen, and gatherers of the Chinchorro culture: Archaic societies of the Atacama Desert (10,000–4,000 cal yr BP): *American Journal of Physical Anthropology*. p. 1–19. <https://doi.org/10.1002/ajpa.24009>

Wang, Z., Dwyer, G.S., **Coleman, D.S.** and Vengosh, A., 2019, Lead isotopes as a new tracer for detecting coal fly ash in the environment: *Environmental Science and Technology Letters*. doi: 10.1021/acs.eslett.9b00512.

Gazel, E., Hayes, J.L., Ulloa, A., Alfaro, A., **Coleman, D.S.** and Carr, M.J., 2019, The record of the transition from an oceanic arc to a young continent in the Talamanca Cordillera: *Geochemistry, Geophysics, Geosystems*, v. 20, <https://doi.org/10.1029/2018GC008128>

Watts, E.M., **Coleman, D.S., Colon-Ramirez, A.M. and Walsh, A.R., 2018, Sources of strontium to the Neuse and Cape Fear river basins, North Carolina: *Journal of Geophysical Research: Earth Surface*, v. 124, <https://doi.org/10.1029/2018JF004797>.

Glazner, A.F., Bartley, J.M. and **Coleman, D.S.**, 2019, A simpler, more informative way to name plutonic rocks: *GSA Today*, doi: 10.1130/GSATG384A.1.

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- *Gaynor, S.P., **Coleman, D.S.**, Rosera, J.M. and Tappa, M.J., 2018, Geochronology of a Bouguer gravity low: *Journal of Geophysical Research: Solid Earth*, v. 124, p. 1-12. 10.1029/2018JB015923.
- *Gaynor, S., Rosera, J.M. and **Coleman, D.S.**, 2019, Magmatic history of the Questa porphyry Mo deposit: *Geosphere*, v. 15, p. 1-28, doi: 10.1130/GES01675.1.
- Feely, M., Gaynor, S., Venugopal, N., Hunt, J. and **Coleman, D.S.**, 2018, New U-Pb zircon ages for the Inish Granite pluton, Galway Granite Complex, Connemara, western Ireland: submitted to *Irish Journal of Earth Sciences*, v. 36, p. 1-7, doi: 10.3318/IJES.2018.36.2.
- Standen, V.G., Valenzuela, D., Monsalve, S., Santoro, C., Arriaza, B. and **Coleman, D.**, 2018, Prehistoric polydactylism: Biological evidence and rock art representation from the Atacama Desert in northern Chile: submitted to *International Journal of Paleopathology*, v. 22, p. 54-65, doi:10.10163/j-ijpp-2018.05.005.
- Koch, A.J., **Coleman, D.S.** and Sutter, A.M., 2018, Provenance of the late Eocene Castle Rock Conglomerate, south Denver basin, Colorado: *Rocky Mountain Geologist*, v. 53, no. 1, p. 29–44, doi:10.2113/gsrocky.53.1.29.
- Bartley, J.M., Glazner, A.F. and **Coleman, D.S.**, 2018, Diking and deformation of granodiorite during growth of the Half Dome pluton, Yosemite National Park, California: *Geosphere*, v. 14, no. 3, doi:10.1130/GES01458.1.
- Standen, V.G., Arriaza, B., Santoro, C.M. and **Coleman, D.**, 2017, Habitation and mobility patterns of Chinchorro populations of the Atacama Desert (9000-3000 BP): *Geoarchaeology*, doi 10.1002/gea.21594.
- Carmichael, S., Waters, J.A., Batchelor, C.J., **Coleman, D.**, Suttner, T.S., Kido, E., Moore, L.M. and Chadimova, L., 2016, Climate instability and tipping points in the Late Devonian: Detection of the Hangenberg Event in an open oceanic island arc in the Central Asian Orogenic Belt, *Gondwana Research*, v. 32, p. 213-231, doi: 10.1016/j.jgr2015.02.009.
- Coleman, D.S.**, Mills, R.D. and Zimmerer, M.J., 2016, The pace of plutonism. *Elements*, v. 12, no. 2, p. 97-102, doi: 10.2113/gelements.12.2.97.
- Glazner, A.F., Bartley, J.M. and **Coleman, D.S.**, 2016, We need a new definition for magma, *Eos*, v. 97, doi:10.1029/2016EO059741.
- Perry, M.A., Jennings, C. and **Coleman, D.S.**, 2016, Strontium isotope evidence for long-distance immigration into Byzantine port city of Aila, modern Aqaba, Jordan: *Archaeological and Anthropological Sciences*, doi: 10.1007/s12520-016-0314-3.
- Rioux, M., Farmer, G.L., Bowring, S.A., Wooton, K.M., Amato, J.M., **Coleman, D.S.** and Verplanck, P.L., 2016, The link between volcanism and plutonism in epizonal magma systems; high-precision U–Pb zircon geochronology from the Organ Mountains caldera and batholith, New Mexico, *Contributions to Mineralogy and Petrology*, v. 171, no. 13, DOI 10.1007/s00410-015-1208-6

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- Glazner, A.F., **Coleman, D.S.** and Mills, R.D., 2015, The volcanic-plutonic connection. In Breitkreuz, C., and Rocchi, S., eds., *Physical Geology of Shallow Magmatic Systems: Dykes, Sills and Laccoliths, Advances in Volcanology*, Springer, doi: 10.1007/11157_2015_11.
- *Madrigal, P., Gazel, E., Denyer, P., Smith, I., Jicha, B., **Coleman, D.** and Snow, J., 2015, A melt-focusing zone in the lithospheric mantle preserved in the Santa Elena Ophiolite, Costa Rica: *Lithos*, v. 230, p. 189-205.
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- *Mazza, S.E., Gazel, E., Johnson, E.A., Kunk, M.J., McAleer, R., Spotila, J.A., Bizimis, M. and **Coleman, D.S.**, 2014, Volcanoes of the passive margin: The youngest magmatic event in eastern North America: *Geology*, v. 42, p. 483-486, doi:10.1130/G35407.1.
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- *Davis, J.W., **Coleman, D.S.**, Gracely, J.T., Gaschnig, R. and Stearns, M., 2012, Magma accumulation rates and thermal histories of plutons of the Sierra Nevada batholith, CA: *Contributions to Mineralogy and Petrology*, v. 163, no. 3, p. 449-465.
- *Tappa, M.J., **Coleman, D.S.**, Mills, R.D. and Samperton, K.M., 2011, The plutonic record of a silicic ignimbrite from the Latir volcanic field, New Mexico, *Geochemistry Geophysics Geosystems*, v. 12, Q10011, doi:10.1029/2011GC003700.
- *Lawrence, R.L., Cox, R., Mapes, R.W. and **Coleman, D.S.**, 2010, Hydrodynamic fractionation of zircon age populations, *Geological Society of America Bulletin*, doi:10.1130/B30151.1.
- Rogers, J.J.W., and **Coleman, D.S.**, 2010, Evolution of the slate belt in North Carolina: *Southeastern Geology*, v. 47, no. 1, p. 1-13.

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- Barth, A.P., Wooden, J.L., **Coleman, D.S.** and Vogel, M.B., 2009, Assembling and disassembling California: A zircon and monazite geochronologic framework for Proterozoic crustal evolution in southern California: *Journal of Geology*, v. 117, p. 221-239, DOI: 10.1086/597515.
- *Mills, R.D., Glazner, A.F. and **Coleman, D.S.**, 2009, Scale of pluton/wall rock interaction near May Lake, Yosemite National Park, California, USA: *Contributions to Mineralogy and Petrology*, v. 158, p. 263-281, DOI 10.1007/s00410-009-0381-x.
- Perry, M.A., **Coleman, D.S.**, Dettman, D.L. and al-Shiyab, A.H., 2009, An isotopic perspective on the transport of Byzantine mining camp laborers into southwestern Jordan: *American Journal of Physical Anthropology*, v. 140, no. 3, p. 429-441.
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- *Gray, W., Glazner, A.F., **Coleman, D.S.** and Bartley, J.M., 2008, Long-term geochemical variability of the Late Cretaceous Tuolumne Intrusive Suite, Central Sierra Nevada, California, Annen, C. and Zolner, G.F., eds. *Dynamics of Crustal Magma Transfer, Storage and Differentiation*: Geological Society of London, Special Publication, v. 304, p. 183-202.
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- Bartley, J.M., **Coleman, D.S.** and Glazner, A.F., 2008, Incremental emplacement of granitic plutons by magmatic crack-seal: *Transactions of the Royal Society of Edinburgh*, v. 97, no. 4, p. 383-396.
- Glazner, A.F., Carl, B.S., **Coleman, D.S.**, Miller, J.S. and Bartley, J.M., 2007, Chemical variability and composite nature of dikes from the Jurassic Independence dike swarm, eastern California: invited to *Geological Society of America, Special Paper*, v. 438, p. 455-480.
- Glazner, A.F., **Coleman, D.S.** and Bartley, J.M., 2008, The tenuous connection between high-silica rhyolites and granodiorite plutons: *Geology*, v. 36, no. 2, p. 183-186.
- Bartley, J.M., Glazner, A.F., **Coleman, D.S.**, Kylander-Clark, A.R.C., Mapes, R. and Friedrich, A.M., 2007, Large dextral offset across Owens Valley, California, and its possible relation to tectonic unroofing of the southern Sierra Nevada: *Geological Society of America Special Paper*, v. 434, p. 129-148.
- *Kylander-Clark, A.R.C., **Coleman, D.S.**, Glazner, A.F. and Bartley, J.M., 2005, Evidence for 65 km of dextral slip across Owens Valley, California, since 83 Ma: *Geological Society of America Bulletin*, v. 117, no. 7, p. 962-968.
- Coleman, D.S.**, Glazner, A.F., Gray, W., Bartley, J.M. and Walker, J.D., 2004, Longevity of Geothermal Resources and Incremental Pluton Emplacement: *Geothermal Resource Council, Transactions*, v. 28, p. 7-12.

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- Bartley, J.M., **Coleman, D.S.**, Glazner, A.F. and Walker, J.D., 2004, Late Cenozoic deformation in the Coso Range, eastern California, and relation to the Coso magmatic and geothermal systems: *Geothermal Resource Council, Transactions*, v. 28, p. 633-636.
- Cox, R., **Coleman, D.S.**, Chokel, C.B., DeOreo, S.B., Wooden, J.L., Collins, A.S., De Waele, B. and Kröner, A., 2004, Proterozoic tectonostratigraphy and paleogeography of central Madagascar derived from detrital zircon U-Pb age populations: *Journal of Geology*, v. 112, no. 4, p. 379-399.
- Glazner, A.F., Bartley, J.M., **Coleman, D.S.**, Gray, W.M. and Taylor, R.Z., 2004, Are plutons assembled over millions of years by amalgamation from small magma chambers?: *Geological Society of America Today*, v. 14, no. 4/5, p. 4-11.
- *Wenner, J.M. and **Coleman, D.S.**, 2004, Magma mixing and Cretaceous crustal growth: geology and geochemistry of granites in the central Sierra Nevada batholith, California: *International Geology Review*, v. 46, no. 10, p. 880-903
- Coleman, D.S.**, Briggs, S., Glazner, A.F. and Northrup, C.J., 2003, Timing of plutonism and deformation in the White Mountains of eastern California: *Geological Society of America Bulletin*, v. 115, no. 1, p. 48-57.
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- Feely, M., **Coleman, D.S.**, Baxter, S. and Miller, B., 2003, Late Caledonian tectonic and magmatic events from U-Pb zircon geochronology of the Galway Granite, Connemara, Ireland: implications for orogen parallel strike slip faults and correlations with Acadian plutonism in New England: *Atlantic Geology*, v. 39, no. 2, p. 175-184.
- *Mahan, K.H., Bartley, J.M., **Coleman, D.S.**, Glazner, A.F. and Carl, B.S., 2003, Sheeted intrusion of the synkinematic McDoogle pluton, Sierra Nevada, California: *Geological Society of America Bulletin*, v. 115, no. 12, p. 1570-1582.
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- Barth, A.P., Jacobson, C.E., **Coleman, D.S.** and Wooden, J.L., 2001, Construction and tectonic evolution of Cordilleran continental crust: Examples from the San Gabriel and San Bernardino Mountains, in Dunne, G. and Cooper, J. (eds.), Geologic Excursions in the California Desert and Adjacent Transverse Ranges: Pacific Section, Society of Exploration Geologists and Mineralogists, Book 88, 17-53.
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INVITED LECTURES

"Finding the Silver (and Au, and Mo, and Pb...) Lining in a Global Catastrophe: Linking Economic Mineralization and Supereruptions"
February 2019, East Carolina University

"Missed connection: Ignimbrite seeking plutonic relationship"
November 2019, North Carolina State University
October 2019, University of Pittsburgh
September 2018, West Virginia University
February 2018, University of Missouri
January 2017, Carnegie Institution of Washington
September 2016, Boston College
April 2016, University of Kentucky
March 2016, University of Illinois
November 2014, University of Alabama
January 2013, East Carolina University
April 2012: University of South Florida
November 2011: Appalachian State University

"The ignimbrite cycle and Mo-mineralization"
March 2013: Chevron Mining, Questa, NM

"How the pluton got its volcano and other Just So stories from modern petrology"
November 2010: Vanderbilt University
October 2010: Virginia Polytechnic Institute and State University
April 2010: Washington State University/University of Idaho
January 2010: Universidade Federales do Brasil, Belem
November 2009: Princeton University
October 2009: University of Wisconsin, Osh Kosh

"Detrital zircon geochronology from the Proterozoic of Madagascar to the modern Amazon River"
March 2016, University of Illinois
January 2010: Universidade Federales do Brasil, Belem
October 2009: University of Wisconsin, Osh Kosh

"Detrital zircon geochronology from the Proterozoic of Madagascar to the modern Amazon River"
2008: University of California, Santa Cruz, Department Brown-Bag Series
2007: Boise State University, Department Lecture Series
2007: University of Kansas, Department Lecture Series
2006: University of North Carolina, Charlotte, Department Lecture Series
2006: University of Georgia, Department Lecture Series

INVITED LECTURES (*continued*)

- “Everything your mother taught you about plutons was wrong”*
2008: University of California, Santa Cruz, Department Colloquium Series
2007: Boise State University, Department Lecture Series
- “Everything I learned in graduate school about plutons was wrong”*
2007: University of Kansas, Department Lecture Series
- “Applications of U-Pb zircon geochronology in North and South America”*
2006: Universidade Federales do Amazonas, Brazil.
- “An iconoclastic view of plutons”*
2006: University of Georgia, Department Lecture Series
2004: University of Colorado, Department Lecture Series
2004: North Carolina State University, Department Lecture Series
- “Monitoring weapons manufacturing in your back yard - and - You are what you eat: Applications of radiogenic isotope geochemistry that I talk about with Mom”*
2003: Duke University, Department Lecture Series
2003: Southern Methodist University, Department Lecture Series
2002: University of Wisconsin, Oshkosh, Department Lecture Series
- “How long does it take to grow a pluton? Too long. New insights from the Sierra Nevada of California”*
2003: Southern Methodist University, Department Lecture Series
- “A tour of rocks and research in the Sierra Nevada of California: ~200 million years in ~60 minutes”*
2002: National University of Ireland, Galway Roc Soc speaker Series
- “Reconstructing the Proterozoic Supercontinent, Rodinia: How and Why Bother?”*
2001: University of North Carolina, Department Lecture Series
- “Making the continental crust: basalt + rhyolite, then just add water”*
2000: Stanford University, College Lecture Series
2000: University of Kansas, Department Lecture Series
- “Biomonitoring uranium contamination and geomonitoring trade and exchange among prehistoric people: Applications of isotope geochemistry beyond the Earth sciences”*
2000: Stanford University, College Lecture Series
2000: University of North Carolina, Department Lecture Series
- “Geologic techniques applied to archaeological problems”*
2000: Boston University, Department of Archaeology, Brown Bag Lecture Series
- “Insignificant scraps of gabbro, granite and volcanic rocks reveal the secrets of continental crustal growth”*
2000: Indiana University/Purdue University, Indianapolis, Department Lecture Series
- “How does the continental crust grow?”*
1999: Hampshire College, Five-Colleges Lecture Series
1998: Boston College, Department Lecture Series

INVITED LECTURES *(continued)*

“Birth of the continental crust: New insights from the Sierra Nevada batholith, California”

1998: Williams College, Department Lecture Series

“Is there climate-forced cyclicity in the Sr isotopic composition of seawater?”

1994: Syracuse University, Department Lecture Series

“Rapid Late Cretaceous crustal growth in the east-central Sierra Nevada batholith”

1994: Syracuse University, Department Lecture Series

1993: University of North Carolina, Department Lecture Series

1993: University of Kansas, Department Lecture Series

“Generation of juvenile granitic crust during continental extension”

1992: University of Georgia, Department Lecture Series.

TEACHING EXPERIENCE

2015-present: University of North Carolina, Chapel Hill, Professor

2020: Petrology and Plate Tectonics (**GEOL 304.001**: 17 students)

2019: Isotope Geochemistry (**GEOL 712.001**: 6 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 20 students)

2018: Introduction to Field Methods (**GEOL 425.001**: 6 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 20 students)

2017: Isotope Geochemistry (**GEOL 712.001**: 5 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 20 students)

2016: Introduction to Field Methods (**GEOL 225.001**: 10 students)

Research and Study Assignment, Fall 2016.

2015: Isotope Geochemistry (**GEOL 712.001**: 8 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 17 students)

2005-2015: University of North Carolina, Chapel Hill, Associate Professor

2014: Advanced Field Seminar (**GEOL 609.001**: 10 students)

Earth's Materials (**GEOL 301.001**: 36 students)

2013: Introduction to Field Methods (w/Glazner and Stewart) (**GEOL 225.001**: 16 students)

Isotope Geochemistry (**GEOL 712.001**: 8 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 20 students)

2012: Advanced Field Seminar (**GEOL 609.001**: 14 students)

Earth's Materials (**GEOL 301.001**: 18 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 21 students)

2011: FYS: Energy Resources for a Hungry Planet (**GEOL 076.001**: 24 students)

Isotope Geochemistry (**GEOL 712.001**: 9 students)

Earth's Materials (**GEOL 301.001**: 25 students)

2010: Advanced Field Seminar (**GEOL 609.001**: 13 students)

Earth System History (**GEOL 202.001**: 101 students)

FYS: Field Geology of Eastern California (**GEOL 072H.001**: 18 students)

Earth's Materials (**GEOL 301.001**: 26 students)

TEACHING EXPERIENCE *(continued)*

- 2008: Advanced Field Seminar (**GEOL 609.001 SPRING'08**: 17 students)
FYS: Field Geology of Eastern California (**GEOL 072H.001**: 18 students)
Earth's Materials (**GEOL 301.001 FALL'08**: 22 students)
- 2007: FYS: Energy Resources for a Hungry Planet (**GEOL 076.001**: 21 students)
Isotope Geochemistry (**GEOL 712.001 SPRING'07**: 6 students)
FYS: Field Geology of Eastern California (**GEOL 072H.001**: 18 students)
Earth's Materials (**GEOL 301.001**: 19 students)
- 2006: FYS: Energy Resources for a Hungry Planet (**GEOL 006d.002**: 20 students)
Advanced Field Seminar (**GEOL 184.001**: 10 students)
Earth's Materials (**GEOL 301.001**: 16 students)

2001-2005: University of North Carolina, Chapel Hill, Assistant Professor

- 2005: Advanced Igneous Petrology (**GEOL 264.001**: 6 students)
Earth's Materials (**GEOL 052.001**: 10 students)
FYS: Field Geology of Eastern California (**GEOL 006C.001**:
- 2004: Research and Study Leave (**SPRING**)
Earth's Materials (**GEOL 052.001**: 11 students)
- 2003: Advanced Topics in Petrology (**GEOL 173.001**: 7 students)
Earth's Materials (**GEOL 052.001**: 17 students)
Introductory Geology (**GEOL 011.003**: 142 students)
- 2002: Seminar in Tectonics (**GEOL 383.001**: 7 students)
Introductory Geology (**GEOL 011.003**: 138 students)
Earth's Materials (**GEOL 052.001**: 15 students)
- 2001: Earth's Materials (**GEOL 052.001**: 11 students)

1996-2001: Boston University, Assistant Professor.

- 2001: Field Geology, Igneous and Metamorphic Petrology, Earth's Geological Resources
- 2000: Advanced Metamorphic Petrology, Field Geology, Mineralogy, Isotope Earth Science, Extensional Tectonics
- 1999: Field Geology, Igneous and Metamorphic Petrology, Earth's Geological Resources, Dynamic Earth, Environmental Geology, Mineralogy
- 1998: Igneous and Metamorphic Petrology, Isotope Earth Science, Dynamic Earth (Spring and Summer), Environmental Geology, Mineralogy
- 1997: Advanced Metamorphic Petrology, Igneous and Metamorphic Petrology, Earth's Geological Resources, Analytical Methods in Geochemistry
- 1996: Advanced Metamorphic Petrology
- Spring, 1992*: University of North Carolina, Lecturer. Introductory Geology-Honors; Instructor, Advanced Field Geology (co-taught with A.F. Glazner).
- Spring, 1989*: University of Kansas, Instructor. Optical Mineralogy.

TEACHING EXPERIENCE *(continued)*

1985-1988: University of Kansas, Teaching Assistant. Structural Geology (1985, 1987, 1988), Igneous and Metamorphic Petrology (1987, 1988), Optical Mineralogy (1988), Introductory Geology (1985).

DEGREES AWARDED TO STUDENTS ADVISED

(undergraduate students include only those with Honors Thesis under my direction)

2019: **Justine G. Grabiec (M.S.)** “Using micro CT imaging to understand K-feldspar megacryst origin, crystallization, and textural Ccoarsening ”

2018: **Sean P. Gaynor (Ph.D.)** “Modification of the crust: Mineralization and alteration in long-lived magmatic centers”

2017: **Ryan E. Frazer (Ph.D.)** “The significance of atypical high-silica igneous rocks”

2017: **Thomas Chapman (M.S.)** “The role of deep crustal anatexis in the generation of high-silica rhyolites”

2017: **Kyle Bullins (B.S.)** “Neodymium isotope geochemistry of the southern Rocky Mountain volcanic field: connections between plutonic and volcanic rocks”

2017: **Ashley Cocciadiferro (B.S.)** “Isotopic analysis of poly-metallic porphyry mineralization in northern New Mexico”

2017: **Navina Venugopal (B.S.)** “Zircon U-Pb Geochronology of the Inish Granite Pluton: Evidence for the long-lived emplacement of the south Connemara Granites”

2015: **James Mize (B.S.)** “Mixing between magmas of the Tuolumne Intrusive Suite and metavolcanic rocks of the Saddlebag Lake screen”

2014: **Kathleen M. Wooton (M.S.)** “Organ Needle pluton, New Mexico: Incrementally emplaced from deep crustal sources”

2014: **Jason Hallman (B.S.)** “Evaluating the genetic links between spatially associated intrusive and extrusive rocks at the Mount Aetna caldera, Colorado”

2014: **Marcelaine Tanner (B.S.)** “The Sr Budget in the Croatan National Forest”

2013: **Courtney L. Beck (M.S.)** “New insights into migration of the Cretaceous Sierran arc using high-precision U-Pb geochronology”

2013: **Ryan E. Frazer (M.S.)** “Evaluating pluton-volcano relationships: an example from the Mount Givens Granodiorite”

2012: **Ryan D. Mills (Ph.D.)** “Reevaluating pluton/volcano connections and igneous textures in light of incremental magma emplacement”

2012: **Joshua A. Rosera (M.S.)** “Re-evaluating genetic models for porphyry Mo mineralization at Questa, New Mexico: Implications for ore deposition following silicic ignimbrite eruption”

2012: **Jing Niu (B.A.)** “Optical birefringence and shear-wave splitting: Analogous phenomena”

2010: **Jesse W. Davis (Ph.D.)** “Thermochronology and cooling histories of plutons: Implications for incremental pluton assembly”

DEGREES AWARDED TO STUDENTS ADVISED (*continued*)

- 2010: **Ayumi Shimokawa (M.S.)** “Zircon U-Pb geochronology of the Great Valley Group: recalibrating the Lower Cretaceous Time Scale”
- 2010: **Kyle M. Samperton (B.S.)** “The intrusive/extrusive connection: An investigation of volcanism and pluton emplacement in the Southern Rocky Mountain volcanic field by U-Pb geochronology”
- 2009: **Russell W. Mapes (Ph.D.)** “Past and present provenance of the Amazon River”
- 2009: **Michael Tappa (M.S.)** “Testing Competing Caldera Models using U/Pb Geochronology; Intrusive History of the Questa Caldera, Latir Volcanic Field, NM”
- 2008: **Mark Stelten (B.S.)** “Questioning the relationship between high-silica rhyolites and aplite dikes”
- 2007: **John T. Gracely (M.S.)** “Rapid pluton emplacement via multiple discrete pulses, Lamarck Granodiorite, central Sierra Nevada batholith, California”
- 2007: **Laura Nagy (B.S.)** “Sm-Nd bulk sediment analysis of sand from the Amazon River basin”
- 2007: **Jennifer A. Poole (B.S.)** “Nutrient uptake by seaweed in Galway Bay, Ireland”
- 2005: **Taylor McCay (B.S.)** “Can detrital zircons travel great distances? Using U/Pb dates from detrital zircons to reconstruct past continental locations”
- 2004: **Susanne M. Meschter-McDowell (M.S.)** “Construction of the Mineral Mountains sheet complex, Mineral Mountains batholith, southwestern Utah”
- 2004: **Jennifer B. Good (B.S.)** “U-Pb dating of land mammalian fossil teeth”
- 2004: **Noah McClean (B.S.)** “Rethinking emplacement of the Cathedral Peak Granodiorite, Tuolumne Intrusive series, based on single-grain U-Pb geochronology”
- 2003: **Michael E. Bulleri (M.S.)** “Using trees to monitor uranium contamination in the environment”
- 2003: **Andrew Kylander-Clark (M.S.)*** “Correlation of Golden Bear and Coso dike sets: Implication for post-Cretaceous offset across Owens Valley, California”

*co-advised with A.F. Glazner as lead advisor

Boston University

2001: **Jennifer M. Wenner (Ph.D.), Lesley Patrick (BA)**

2000: **Maria L. Brady (MA), Matthew Rioux (BA)**

1999: **Maria L. Brady (BA), Jesse Edmands (BA)**

1998: **Jennifer Tieso (BA), Mark Rothenbuhler (BA)**

GRANTS FUNDED

Awarded to The University of North Carolina

“The Origin and Fate of Pb in North Carolina Surface Waters” Drew Coleman and Larry Benninger PIs: North Carolina Policy Collaboratory, September 2017, \$75,000

GRANTS FUNDED (*continued*)

- “MRI: Acquisition of a New Thermal Ionization Mass Spectrometer for High-Precision Isotope Chronology and Chemistry” Drew Coleman, Allen Glazner, Donna Surge and Justin Ries PIs: National Science Foundation. \$467,508.
- “A quantitative method for measuring temperature-time histories in hydrothermal magmatic ore systems” Drew S. Coleman PI: National Science Foundation. 2012; \$216,976
- Supplement to - “Collaborative research: Caldera magmatism from the inside out: A geochronologic and geochemical investigation of plutonic and volcanic rocks in three contrasting calderas” Drew S. Coleman PI: National Science Foundation. March 2012; \$17,000
- “Collaborative research: Caldera magmatism from the inside out: A geochronologic and geochemical investigation of plutonic and volcanic rocks in three contrasting calderas” Drew S. Coleman, and William McIntosh PIs: National Science Foundation. February 1, 2011 - January 31, 2013; \$236,085 (Total Project = \$347,506)
- “MRI: Acquisition of a Laser Ablation Inductively Coupled Plasma Mass Spectrometer (LA-ICP-MS) for Earth and Marine Science Research” Justin Ries, Drew Coleman, Allen Glazner and Brent McKee PIs: National Science Foundation. September 27, 2011 – September 26, 2012; \$410,116.
- “Collaborative research: Testing the time scale and geometry of incremental pluton assembly through 3-D modeling and thermochronology” Drew S. Coleman, Allen F. Glazner and John M. Bartley PIs: National Science Foundation. January 1, 2006 - December 31, 2008; \$285,939 (Total Project = \$344,532)
- Supplement to - “Collaborative research: Are plutons assembled over long periods of time by amalgamation from small ephemeral magma chambers?” Allen F. Glazner, Drew S. Coleman and John M. Bartley PIs: National Science Foundation. July 1, 2005 - June 30, 2006; \$22,776.
- “How Far and How Fast? The Fate of Zircon in a Modern Continent-Scale Fluvial System -- The Amazon River” Drew S. Coleman PI: American Chemical Society - Petroleum Research Fund. September 1, 2004 - August 31, 2006; \$79,971.
- Supplement to - “How Far and How Fast? The Fate of Zircon in a Modern Continent-Scale Fluvial System -- The Amazon River” Drew S. Coleman PI: American Chemical Society - Petroleum Research Fund. June 1, 2005 - May 31, 2006; \$8,000.
- “Challenging the dogmatic view of magma chambers through a geochronologic investigation of Irish igneous rocks” Drew S. Coleman PI: University of North Carolina Junior Faculty Development Award. January 1, 2004 - December 31, 2004; \$5000.
- “Collaborative research: Are plutons assembled over long periods of time by amalgamation from small ephemeral magma chambers?” Allen F. Glazner, Drew S. Coleman and John M. Bartley PIs: National Science Foundation. January 1, 2004 - December 31, 2005; \$120,092 (Total Project = \$145,537)
- “Investigation of a new approach for recognition of magma chamber deformation” Drew S. Coleman PI: University of North Carolina University Research Council. May 1, 2002- April 30, 2004; \$3020.
- “Fault Kinematics of the Coso Region, Eastern California: Testing Hypotheses for Significant Right-Lateral Offset Along Owens Valley”: Allen F. Glazner Co-PI: US Office of Naval Weapons Research. September 1, 2001 - December 31, 2003; \$238,888.

GRANTS FUNDED (*continued*)

"Geology of Precambrian rocks in the western Joshua Tree Wilderness, California": Andrew Barth (IUPUI) Co-PI: National Geographic Society, March 1, 2002-December 31, 2002; \$3,960.

"Caledonian Magmatism: Cross-Atlantic Correlations Using High-Precision U-Pb geochronology of Western Ireland Granites": Martin Feely (NUI, Galway) Co-PI: Enterprise Ireland, April 1, 2002-March 31, 2003; Eu2500.

Awarded to Boston University

"Purchase of an FTIR Microscope for analysis of art, archaeological and geological materials": Paul S. Goldberg, Drew S. Coleman, Richard A. Laursen and Terry A. Plank PIs: National Science Foundation. September 1, 2000 – August 31, 2001; \$50,000 (Total Project = \$71,500).

"Collaborative research: Interpluton wallrock screens in the Sierra Nevada and their bearing on pluton emplacement processes": John M. Bartley, Drew S. Coleman and Allen F. Glazner PIs: National Science Foundation. January 1, 1999 - December 31, 2000; \$22,021 (Total Project = \$131,301).

"Acquisition and Upgrade of an Inductively Coupled Plasma Emission (ICP-ES) Laboratory of Geological, Oceanographic, and Environmental Chemical Research": Richard W. Murray, Drew S. Coleman, Robert W. Gensemer and Timothy M. Kusky PIs: National Science Foundation. October 1, 1997 - September 30, 1999; \$100,000 (Total Project = \$171,806).

"Collaborative research: U-Pb geochronology of Precambrian gneisses in southern California: Constraints on Proterozoic plate tectonics of southwestern North America": Drew S. Coleman and Andrew P. Barth PIs: National Science Foundation. January 1, 1997 - December 31, 1998; \$52,281 (Total Project = \$127,077).

Awarded to The Massachusetts Institute of Technology & The University of North Carolina (Coleman co-wrote proposals; however post-doctoral scholars were not given PI status)

"Collaborative research: Development of a new Late Mesozoic time scale based on U-Pb geochronology of volcanic horizons from the Great Valley Group, northern California": Samuel A. Bowring and T.J. Bralower, PIs: National Science Foundation. July 1, 1994 - June 30, 1996; \$70,511 (Total Project = \$165,127). .

"Time-space variability of mafic plutons in the Sierra-Mojave batholith": Allen F. Glazner PI: National Science Foundation. January 1, 1993 - December 31, 1995; \$120,000.

SERVICE TO THE EARTH SCIENCES COMMUNITY

April 2012-present: Sigma Xi Grants in Aid of Research Committee Member

2007-present: Panel Member, National Science Foundation, Earth Sciences.

May 2005-2011: Proposal Reviewer: Sigma Xi Student Grants in Aid of Research.

January 2000-2007: External Examiner: National University of Ireland, Galway.

2000-2001: Adjunct Faculty: Massachusetts Institute of Technology, Center for Materials Research in Archaeology and Ethnology.

1999-Present: Editorial Board: *Geoarchaeology* (Wiley).

SERVICE TO THE EARTH SCIENCES COMMUNITY (*continued*)

1996-Present: Proposal Reviewer: National Science Foundation; Petrology and Geochemistry, Tectonics, Continental Dynamics, Geology and Paleontology, Polar Programs panels.

1990-Present: Manuscript Reviewer: Geology, Contributions to Mineralogy and Petrology, Geological Society of America Bulletin, Journal of Geophysical Research, Geoarchaeology, Basin Research, Journal of Archaeological Sciences, Journal of South American Geology, Canadian Journal of Earth Sciences.

UNIVERSITY AND DEPARTMENT SERVICE

University of North Carolina

2018-present: College of Arts and Sciences 1) Environment, Ecology and Energy Curriculum, Executive Committee Member

2015-present: College of Arts and Sciences 1) Faculty Member: Honor Court

2015-2018: College of Arts and Sciences 1) Chair: Sitterson First Year Student Teaching Award Committee

2013-2014: College of Arts and Sciences Committee Member – 1) Transfer Student Success, 2) First Year Experiences, 3) Diversity Advisory Board, 4) Tanner Graduate Teaching Assistant Award

2012-2014: Faculty Advisor for Geology Honors Fraternity and Geology Club

April 2010: College of Arts and Sciences, Curriculum Review Committee

March 2008-2013: College of Arts and Sciences, Summer Undergraduate Research Fellowship Selection Committee

Winter 2008: College of Arts and Sciences, Undergraduate Academic Advising, Search Committee Member.

August 2006-June 2009: College of Arts and Sciences, Undergraduate Academic Advising, Faculty Advisor.

August 2006-November 2006: College of Arts and Sciences, Tanner Teaching Awards Committee.

September 2006-2007; 2004-2005; 2001-2002: Department of Geological Sciences Executive Committee.

2002-2013: Department of Geological Sciences, Director of Undergraduate Studies.

September 2002-2003: Department of Geological Sciences Colloquium Series Coordinator.

Boston University

September 1999-2000: Undergraduate Advisor, Dean Ralph W. Taylor Academic Advising Center, College of Arts and Sciences.

January 1998-2000: Director of Graduate Studies, Department of Earth Sciences.

September 1997-1999: Academic Conduct Committee, College of Arts and Sciences.

September 1996-1999: Library acquisition coordinator, Department of Earth Sciences.

SUMMARY OF RESEARCH AND TEACHING INTERESTS

- Application of isotope geochronology and geochemistry, petrology and field geology to solving fundamental problems in understanding how the Earth's crust grows, and the interplay between plutonism, volcanism, deformation and economic mineralization.
- Exploring the links between the plutonic and volcanic rock records. Understanding the role of shallow crustal processes in supereruption evolution and the links between supereruptions and economic metal mineralization.
- Application of detrital zircon geochronology to tectonic problems, including continent reconstruction.
- Pursuit of novel applications of isotope geochemistry toward solution of ecological, environmental and archaeological problems.
- Involving students from undergraduate to graduate level in basic research. Emphasizing both fundamentals of geology and current problems in the geosciences through teaching introductory geology, isotope geochronology and geochemistry, and mineralogy.