RESUME - Emily Scribner

PERSONAL DATA

Senior Lecturer
Department of Environmental Engineering and Earth Sciences
Clemson University
Clemson, SC 29634
864-901-2287

EDUCATION

Ph.D., The University of British Columbia, 2019, Geological Sciences

Certificate in Advanced Teaching and Learning, The University of British Columbia, 2017

H.B.Sc., Queen's University, 2014, Geological Sciences

PROFESSIONAL EXPERIENCE

Clemson University, 2024- , Senior Lecturer

Clemson University, 2019-2024, Lecturer

University of British Columbia, 2017-2019, Sessional Lecturer

University of British Columbia, 2017-2019, Graduate Facilitator

University of British Columbia, 2014-2018, Teaching Assistant

University of British Columbia, 2017, Co-Instructor

University of British Columbia, 2015-2016, Carl Wieman Science Education Initiative Teaching Assistant

University of British Columbia, 2015, Academic Assistant

Queen's University, 2012-2014, Teaching Assistant

MEMBERSHIPS

Member, National Association of Geoscience Teachers, Geoscience Education Research Division, NAGT GER, (2018-)

Member, Geological Society of America, GSA, (2014-)

PROFESSIONAL ACTIVITIES

National Association of Geoscience Teachers, Geoscience Education Research Division, Past President (2023-).

Journal of Geoscience Education, Associate Editor (2022-).

National Association of Geoscience Teachers, Southeastern Section, State Representative for South Carolina (2019-).

National Association of Geoscience Teachers, Geoscience Education Research Division, President (2022-2023).

National Association of Geoscience Teachers, Geoscience Education Research Division, Member, Awards Committee (2019-2022).

National Association of Geoscience Teachers, Geoscience Education Research Division, Vice President (2021-2022).

National Association of Geoscience Teachers, Geoscience Education Research Division, Reviewer, COVID-19 Emergency Fund (2020).

National Association of Geoscience Teachers, Southeastern Section, Judge, Section-Level Outstanding Earth Science Teacher Award (2020).

PUBLICATIONS

Refereed Journal Publications

Bosi, F., Pezzotta, F., Altieri, A., Andreozzi, G., Ballirano, P., Tempesta, G., Cempírek, J., Škoda, R., Čopjaková, R., Novák, M., Kampf, A.R., Scribner, E.D., Groat, L.A., and Evans, R.J., "Celleriite, □$(Mn^{2+}{}_2Al)Al_6(Si_6O_{18})(BO_3)_3(OH)_3(OH)$, a new mineral species of the tourmaline supergroup," *American Mineralogist*, (2022).

Scribner, E.D., Cempírek, J., Groat, L.A., Evans, R.J., Biagioni, C., Bosi, F., Dini, A., Hålenius, U., Orlandi, P., & Pasero, M.," Magnesio-lucchesiite, $CaMg_3Al_6(Si_6O_{18})(BO_3)_3(OH)_3O$, a new species of the tourmaline supergroup," *American Mineralogist*, (2021).

Scribner, E.D., and Harris, S.E., "The mineralogy concept inventory: a statistically validated assessment to measure learning gains in undergraduate mineralogy courses," *Journal of Geoscience Education*, **68**, 186-198 (2020).

Prior to Clemson

Scribner, E.D., Groat, L.A., and Cempírek, J., "Mineralogy of Ti-bearing, Al-deficient tourmaline assemblages associated with lamprophyre dikes near the O'Grady Batholith, Northwest Territories, Canada." *Journal of Geosciences,* **63,** 123-135 (2018).

Scribner, E.D., Groat, L.A., and Cempírek, J., "Mineralogy of the Ash Mountain Sn-bearing skarn, Tuya Range, northern British Columbia, Canada," *The Canadian Mineralogist*, **55,** 333-347 (2017).

Conference Proceedings (Unreviewed)

Corradino, J.I., Gallagher, E.D., Scribner, E.D., Lazar, K.B., Brame, S., Fidler, M.K., and Murdoch, L.C. "Student experiences and perceptions of skill development in a multi-modal field course: Application of the

cognitive apprenticeship framework," *Annual meeting of the Geological Society of America*, Portland, OR (October 2021).

Scribner, E.D., Lazar, K.B., Brame, S., Fidler, M.K., and Murdoch, L.C. "Real-time streaming of field camp experiences," *Annual meeting of the Geological Society of America*, Online (October 2020).

Prior to Clemson

Scribner, E.D., and Harris, S.E. "The Mineralogy Concept Inventory: a statistically validated concept inventory to measure learning gains," *Annual meeting of the Geological Society of America*, Indianapolis, IN (November 2018).

Jolley, A., Gilley, B.H., Holland, T., Sherman, S.B., Scribner, E.D., and McMillan, R. "Teaching and learning about teaching and learning: UBC's graduate course in evidence-based pedagogy," *Annual meeting of the Geological Society of America*, Indianapolis, IN (November 2018).

Scribner, E.D., and Harris, S.E. "The Mineralogy Concept Inventory: a statistically validated concept inventory to measure learning gains," *Earth Educators' Rendezvous*, Lawrence, KS (July 2018).

Scribner, E.D., Cempírek, J., and Groat, L.A. "Uvite and feruvite from lamprophyre dikes and metasediments near the O'Grady batholith in the Northwest Territories, Canada," *Tourmaline 2017*, Skalský dvůr, Czech Republic (June 2017).

Scribner, E.D., Cempírek, J., and Groat, L.A. "Mineralogy and geochemistry of the Rau pegmatite group, Yukon Territory, Canada," *8th International Symposium on Granitic Pegmatites*, Kristiansand, Norway (June 2017).

Scribner, E.D., Groat, L.A., and Cempírek, J. "The Ash Mountain tin-bearing skarn in northwestern British Columbia," *Joint Assembly of the Geological Association of Canada and the Mineralogical Association of Canada*, Whitehorse, Canada (June 2016).

Scribner, E.D., Groat, L.A., and Cempírek, J. "The effect of *in situ* contamination on the rare-element mineralogy of pegmatite dikes in the Rau pegmatite field, Yukon Territory, Canada," *7th International Symposium on Granitic Pegmatites*, Książ Castle, Poland (June 2015).

Scribner, E.D., Peterson, R.C., Groat, L.A., Wilson, B., and Joy, B. "Chemical evolution of tourmaline from a granitic pegmatite in the Nááts'ihch'oh igneous complex, Northwest Territories, Canada," *Annual Meeting of the Geological Society of America*, Vancouver, Canada (October 2014).

Scribner, E.D., Peterson, R.C., Groat, L.A., Wilson, B., and Joy, B. "Chemical evolution of tourmaline from a granitic pegmatite in the Nááts'ihch'oh igneous complex, Northwest Territories, Canada," *Joint*

Assembly of the Geological Association of Canada and the Mineralogical Association of Canada, Fredericton, Canada (May 2014).

Scribner, E.D., and Harris, S.E., "The mineralogy concept inventory: a statistically validated assessment to measure learning gains in undergraduate mineralogy courses," *Journal of Geoscience Education*, **68**, 186-198 (2020).

Other Scholarly Publications

Lehto, H., Fung, M., Whittington, C., Isava, G. (original authors), and Scribner E.D. (revising author). "Mineral mystery lab," in Teasdale, R., Bitting, K., and Ryker, K. (Eds.), *Guided Inquiry Introductory Geology Labs*, (2022). Retrieved from: https://serc.carleton.edu/inquiry_intro_geo/activities/244905.html#:~:text=In%20this%20lab%2C%20students%20will,face%2Dto%2Dface%20instruction

Prior to Clemson

Scribner E.D., Cempírek J., Groat L.A., and Evans R.J. "Magnesio-lucchesiite, IMA 2019-025. CNMNC Newsletter No. 50" *European Journal of Mineralogy*, 31, 851 (August 2019).

PRESENTATIONS

Scribner, E.D., and Sherman, S.B. "Classroom techniques to motivate students," Center for Teaching Excellence, University of Hawai'i at Mānoa, Honolulu, HI (February 7, 2019).

Scribner, E.D., and Sherman, S.B. "Challenging situations," 'Ike Wai (Hawai'i EPSCoR, University of Hawai'i at Mānoa, Honolulu, HI (February 6, 2019).

Sherman, S.B., Jolley, A., and Scribner, E.D. "Strategies in scholarship of teaching and learning," Earth Educators' Rendezvous, Lawrence, KS (July 16, 2018).

Scribner, E.D., and Sherman, S.B. "Development of a knowledge assessment for an introductory petrology course," University of British Columbia Science Education Open House, Vancouver, Canada (April 7, 2017).

Scribner, E.D., Sherman, S.B., and Strubbe, L. "Well-prepared students: motivating students before and during class," University of British Columbia Science Education Open House, Vancouver, Canada (April 11, 2016).

Sherman, S.B., Scribner, E.D., Kennedy, L., and Kopylova, M. "How to help students get the most out of labs: benefits and challenges of pre-lab

assignments," University of British Columbia Science Education Open House, Vancouver, Canada (April 11, 2016).

Turner, D., and Scribner, E.D., and Groat, L.A. "Geology of gem beryl," Meeting of the Vancouver Island Exploration Group, Nanaimo, Canada (May 13, 2015).

HONORS AND AWARDS

Junior Faculty Award for Excellence in Teaching, College of Engineering, Computing and Applied Sciences, Clemson University (2024).

Provost Junior *Special Rank* Outstanding Teaching Award, Clemson University (2023).

Guest Professor, Clemson Football (2022).

The University of British Columbia Killam Graduate Teaching Assistant Award, Killam Laureates and the University of British Columbia (2018).

Teaching Assistant Award, Endeavour Silver (2013).

Undergraduate Student Award, The Mineralogical Association of Canada (2013).

Leonard G. Berry Memorial Award, Queen's University (2013).

GRADUATE STUDENT ADVISING

Current Graduate Advising

Shannon Conner (PhD), "Connecting risk, water hazard interest, and career motivations: An interdisciplinary approach", 2026, (Committee Member).

SPONSORED RESEARCH

"Course transformation of EOSC 118", Skylight: Science Centre for Learning and Teaching, University of British Columbia, Co-Principal Investigator, $1,322, ($1,322), (2018).

"Assessing the development of 3-D spatial visualization skills of undergraduate students", Skylight: Science Centre for Learning and Teaching, University of British Columbia, Co-Principal Investigator, $2,646, ($2,646), (2017).

"Assessing learning gains and students' self-confidence with knowledge surveys", Skylight: Science Centre for Learning and Teaching, University of British Columbia, Co-Principal Investigator, $2,646, ($2,646), (2016).

"Concept inventory for measuring learning gains in undergraduate mineralogy courses", Skylight: Science Centre for Learning and

Teaching, University of British Columbia, Student, $3,594, ($3,594), (2016).

"The effect of in situ contamination on the rare-element mineralogy of pegmatite dikes in the Rau pegmatite field, Yukon Territory, Canada", Northern Scientific Training Program, Student, $3,000 ($3,000), (2014).

OTHER SPONSORED ACTIVITY

Sessional Conference/Travel Grant, University of British Columbia Faculty Association, $1,800, (2018).

Student Travel Grant, Mineralogical Association of Canada, $1,200, (2016).

Student Travel Grant, Mineral Deposit Division of the Geological Association of Canada, $300, (2016).

TEACHING

Courses Taught (Beginning Fall 2019)

GEOL 1200, Natural Hazards, F20, S21, Su21, F21, S22, Su22, F22, S23, Su23, F23, S24, Su24, F24

GEOL 1120, Earth Resources, F19, S20, Su20, F20, S21, F21, S22, F22, S23, F23, S24, F24

GEOL 1140, Earth Resources Laboratory, F19, S20, Su20, F20, S21, F21, S22, F22, S23, F23, S24, F24

GEOL 4500, Special Topics – The Dinosaur World: Early Origins through Extinction and Beyond, Su24

ENSP 2000, Introduction to Environmental Science, S20, F20, S21, F21

GEOL 4750, Summer Geology Field Camp, Su20, Su21, Su22, Su23

GEOL 8750, Hydrogeology Summer Field Camp, Su20, Su21, Su22, Su23

GEOL 4110, Geoscience Education (Independent Study), S19

GEOL 1030, Physical Geology Laboratory, F19

UNIVERSITY AND PUBLIC SERVICE

Committees

University:	Senator, Faculty Senate (2024-).
University:	Member, Non-Tenured Faculty Issues Committee, Faculty Senate (2024-).
University:	Representative for the College of Engineering, Computing and Applied Sciences, Athletic Council (2023-).

University:	Delegate, Convention of Delegates, Faculty Senate (2023-2024).
University:	Member, Scholastic Policies Committee, Faculty Senate (2023-2024).
School:	Member, School of Civil and Environmental Engineering and Earth Sciences 7-point Faculty Evaluation Scale Committee (2023-2024).
School:	Member, School of Civil and Environmental Engineering and Earth Sciences Bylaws Committee (2022-2024).
University:	Representative for the College of Engineering, Computing and Applied Sciences, Academic Advising Committee (2021-2023).
College:	Member, Instructional Lab Community of Practice (2020).
Department:	Member, Curriculum Committee (2019).

Other Service

Co-Assistant Campus Lead, Kern Entrepreneurial Engineering Network at Clemson University (2024-).

Faculty Fellow, Kern Entrepreneurial Engineering Network at Clemson University (2024-).

Experiential Learning Ambassador for CECAS, Clemson Experiential Learning (2024-..).

Undergraduate Faculty Advisor, Environmental Engineering and Earth Sciences (2020-).

Panelist, CECAS Ready, Set, Roar!, Clemson University (2024).

Panelist, College of Education Undergraduate Student Advisory Board, Clemson University (2024).

Representative for CECAS, Provost Teaching Awards Selection Committee, Clemson University (2024).

Panelist, Immersion Freshmen Programming, Athletic Academic Services, Clemson University (2023, 2024).

Panelist, Faculty/Instructor Day, Clemson University Spectrum Program (2023, 2024).

Panelist, New Faculty Teaching Conference, Clemson University (2022).

Mentor, Geosciences Education & Mentorship Support program (2021-2022).

Poster Judge, 8th Annual Summer Undergraduate Research Symposium, Clemson University (2021).

MISCELLANEOUS

Faculty Learning Community Participant, "Making the Impersonal Personal: Establishing Community in a Large Lecture Setting", Office of Teaching Effectiveness and Innovation (2023-2024).

Faculty Learning Community Leader, "Peer Review of Teaching", Office of Teaching Effectiveness and Innovation (2022-2023).

Faculty Learning Community Participant, "Innovative Ways for Teaching Large Enrollment General Education Courses", Office of Teaching Effectiveness and Innovation (2019-2020).

September 19, 2024