

EMILY SCRIBNER

PERSONAL DATA

Senior Lecturer
School of Civil and 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
- The University of British Columbia, 2017-2019, Sessional Lecturer
- The University of British Columbia, 2017-2019, Graduate Facilitator
- The University of British Columbia, 2014-2018, Teaching Assistant
- The University of British Columbia, 2017, Co-Instructor
- The University of British Columbia, 2015-2016, Carl Wieman Science Education Initiative Teaching Assistant
- The University of British Columbia, 2015, Academic Assistant
- Queen's University, 2012-2014, Teaching Assistant

MEMBERSHIPS

- Member, National Association of Geoscience Teachers, NAGT (2018-)
 - *Previously served as Vice President (2022), President (2023), and Past President (2024), Geoscience Education Research Division*
- Member, Geological Society of America, GSA, (2014-)

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).

PUBLICATIONS

H-Index: 4

Google Scholar H-Index: 4

Refereed Journal Publications

Published

1. 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., "Cellerite,

$\square(\text{Mn}^{2+}_2\text{Al})\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3(\text{OH})$, a new mineral species of the tourmaline supergroup,” *American Mineralogist*, **107**, 31-42 (2022).

2. 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, $\text{CaMg}_3\text{Al}_6(\text{Si}_6\text{O}_{18})(\text{BO}_3)_3(\text{OH})_3\text{O}$, a new species of the tourmaline supergroup,” *American Mineralogist*, **106**, 862-871 (2021).
3. 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

4. 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).
5. 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)

1. 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,” *GSA Connects 2021*, Geological Society of America, Portland, OR (October/2021).
2. Scribner, E.D., Lazar, K.B., Brame, S., Fidler, M.K., and Murdoch, L.C. “Real-time streaming of field camp experiences,” *GSA Connects Online 2020*, Geological Society of America, Online (October/2020).

Prior to Clemson

3. Scribner, E.D., and Harris, S.E. “The Mineralogy Concept Inventory: a statistically validated concept inventory to measure learning gains,” *GSA 2018 Annual Meeting*, Geological Society of America, Indianapolis, IN (November/2018).
4. 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,” *GSA 2018 Annual Meeting*, Geological Society of America, Indianapolis, IN (November/2018).
5. Scribner, E.D., and Harris, S.E. “The Mineralogy Concept Inventory: a statistically validated concept inventory to measure learning gains,” *Earth Educators’ Rendezvous*, National Association of Geoscience Teachers, Lawrence, KS (July/2018).
6. 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).
7. 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).
8. 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*, Geological Association of Canada and the Mineralogical Association of Canada, Whitehorse, Canada (June/2016).
9. 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).
10. Scribner, E.D., Peterson, R.C., Groat, L.A., Wilson, B., and Joy, B. “Chemical evolution of tourmaline from a granitic pegmatite in the Nǎáts’ihch’oh igneous complex, Northwest Territories, Canada,” *2014 Annual Meeting*, Geological Society of America, Vancouver, Canada (October/ 2014).
11. Scribner, E.D., Peterson, R.C., Groat, L.A., Wilson, B., and Joy, B. “Chemical evolution of tourmaline from a granitic pegmatite in the Nǎáts’ihch’oh igneous complex, Northwest Territories, Canada,” *Joint Assembly of the Geological Association of Canada and the Mineralogical Association of Canada*,

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

Other Scholarly Publications

1. 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

2. 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

1. Scribner, E.D. "Two-stage exams: A collaborative testing method to promote learning and reduce test anxiety," Office of Teaching Effectiveness and Innovation, Clemson University, Clemson, SC (January 6, 2025).
2. 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).
3. 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).
4. Sherman, S.B., Jolley, A., and Scribner, E.D. "Strategies in scholarship of teaching and learning," Earth Educators' Rendezvous, Lawrence, KS (July 16, 2018).
5. 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).
6. 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).
7. 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).
8. 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).

SPONSORED RESEARCH

- "Course transformation of EOSC 118", Skylight: Science Centre for Learning and Teaching, The 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, The 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, The 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, The 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).

GRADUATE STUDENT ADVISING

Current Graduate Advising

- Megan Lapkoff (PhD), "The Experiences of Minoritized Genders within Geosciences", May 2027, (Committee Member).
- Shannon Conner (PhD), "Connecting risk, water hazard interest, and career motivations: An interdisciplinary approach", May 2025, (Committee Member).

TEACHING

Courses Taught

Beginning Fall 2019

- GEOL 1200, Natural Hazards, F20, S21, Su21, F21, S22, Su22, F22, S23, Su23, F23, S24, Su24, F24, S25.
- GEOL 1120, Earth Resources, F19, S20, Su20, F20, S21, F21, S22, F22, S23, F23, S24, F24, S25.
- GEOL 1140, Earth Resources Laboratory, F19, S20, Su20, F20, S21, F21, S22, F22, S23, F23, S24, F24, S25.
- 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.

New Course Development (List Courses Developed)

- GEOL 2400, The End of an Era: Dinosaurs and Mass Extinctions, Summer 2024.

PROFESSIONAL ACTIVITIES

- National Association of Geoscience Teachers, Southeastern Section, State Representative for South Carolina (2019-).
- Session Co-Chair, Making Sense of Methodologies and Theoretical Frameworks in Geoscience Education Research, GSA Connects (2022-2024).
- National Association of Geoscience Teachers, Geoscience Education Research Division, Past President (2023-2024).
- Journal of Geoscience Education, Associate Editor (2022-2024).
- 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).

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).
- University: Representative for the College of Engineering, Computing and Applied Sciences, Academic Advising Committee (2021-2023).
- College: Member, Instructional Lab Community of Practice (2020).
- 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).
- 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).

Updated on February 17, 2025.