

BRIDGET A. BERGQUIST
CURRICULUM VITAE
updated April 2026

BIOGRAPHICAL INFORMATION:

PERSONAL

- Bridget A. Bergquist
- University of Toronto, Department of Earth Sciences, 22 Ursula Franklin Street, Earth Science Centre, Toronto, ON, Canada M5S 3B1, bridget.bergquist@utoronto.ca

DEGREES

- Dec. 1996 B.S. Degree, Geology, University of Wisconsin – Madison (with Honors)
- Dec. 1996 B.S. Degree, Chemistry, University of Wisconsin – Madison (with Honors)
- Sept. 2004 Ph.D., Massachusetts Institute of Technology-Woods Hole Oceanographic Institution Joint Program
 - Thesis project: The Marine Geochemistry of Iron and Iron Isotopes.
 - Advisor: Edward A. Boyle (eaboyle@mit.edu)

EMPLOYMENT

- July 2023 to present: Full Professor, W.M. Keck Chair in Geology
 - University of Toronto, Department of Earth Sciences
 - Trace metal and metal isotope geochemistry
- July 2015 to June 2023: Associate Professor
 - University of Toronto, Department of Earth Sciences
- Jan. 2008 to June 2015: Assistant Professor, tenure-stream
 - University of Toronto, Department of Earth Sciences
- May 2005-Dec. 2007, Turner Postdoctoral Fellow
 - University of Michigan, Department of Geological Sciences
 - Development of stable calcium and mercury isotope systems.
- Sept. 2004 to May 2005, Postdoctoral Researcher
 - MIT, Department of Earth, Atmospheric, and Planetary Sciences
 - Continuation of my thesis project with an emphasis on the application of iron (Fe) isotopes in the marine system. I also continued work on Fe distribution and speciation in seawater by participating in the international Fe inter-comparison cruise (SAFe) from (Fall 2004).
- Sept. 1998-Sept. 2004, Ph.D. student
 - MIT-WHOI Joint Program, MIT Department of Earth, Atmospheric, and Planetary Sciences
 - Thesis project: The Marine Geochemistry of Iron and Iron Isotopes.
 - This study addressed questions of marine Fe cycle using Fe distribution and speciation studies and application of a new in-situ tracer (stable Fe isotopes). My thesis work included development of high precision Fe-isotope measurements by multi-collection inductively coupled plasma mass spectrometry. I also developed a new method for the simultaneous measurement of Fe, Mn, and Cr concentrations in seawater.
- 2001-2002, Teaching Assistant
 - MIT, Department of Earth, Atmospheric, and Planetary Sciences

- Spring 2001: Analytical Techniques for Studying Environmental and Geologic Samples. Collected lake cores from a contaminated site and led students in describing and analyzing cores for metals.
- Fall 2002: Geosystems: Carbon Cycle
- 1997-99, Environmental Scientist
 - Lawrence Livermore National Laboratory, Center for Accelerator Mass Spectrometry
 - Developed methods for the detection of technetium-99 by accelerator mass spectrometry (AMS) in order to study the behavior of Tc-99 (nuclear fission product) in nature. Also involved in projects using nickel-59, nickel-63, and strontium-90 as isotopic tracers.
- 1995/6, Undergraduate Senior Thesis Research
 - University of Wisconsin-Madison Geology Department
 - Investigated fluid flow during a metamorphic event by analyzing and studying trace elements (Sr and Mn) in metamorphic dolomites from a contact aureole in Death Valley.
- 1994/5, Undergraduate Researcher
 - Los Alamos National Laboratory, Environmental Science Group, EES-15
 - Performed tracer studies of water movement through soils using chlorine and bromine.
- 1993, Sophomore Honors Research Program
 - University of Wisconsin-Madison Geology Department
 - Gained experience in field geology and sedimentary geology including sequence stratigraphy, sandstone petrology, and insoluble residue testing.

HONORS AND AWARDS:

- 2020, Team member of Gold Medal Winner in the Artisanal Mining Grand Challenge, Conservation X Labs
- 2009-14, Scholar, Canadian Foundation for Advanced Research, Earth System Evolution Program
- 2005-07, Turner Postdoctoral Fellow, University of Michigan
- 2004-05, ELP Fellow, Environmental Leadership Program, Washington D.C.
- 2002-03, MIT Martin Fellowship for Sustainability
- 2001, TA of the year award, MIT Earth, Atmospheric, and Planetary Science Dept.
- 1998-2004, National Physical Science Consortium Fellow
- 1997-98, Associated Western Universities Fellow, Lawrence Livermore Nat. Lab.
- 1997, Science and Engineering Research Semester Fellow, Lawrence Livermore Nat. Lab.
- 1991-96, Dean's List, University of Wisconsin – Madison
- 1995, Phi Beta Kappa, University of Wisconsin – Madison
- 1995, Hilldale Undergraduate Research Fellowship, UW-Madison
- 1995, Evan P. Helfaer Scholarship, UW-Madison Chemistry Department
- 1995, Mack C. Lake Outstanding Senior Scholarship, UW-Madison Geology Dept.
- 1994, Science and Engineering Research Semester Fellow, Los Alamos Nat. Lab.
- 1994, Lowell R. Laudon Outstanding Junior Scholarship, UW-Madison Geology Dept.

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Lead Theme Organizer, Geochronology and Geochemistry, 38th International Geological Congress, 2028, Calgary
- Session organizer, Canadian Societies for Chemistry and Chemical Engineering 2026 Conferences and Exhibition, Toronto May 2026
- Theme organizer, Goldschmidt 2026

- Member of AMAP (Arctic Monitoring and Assessment Program) Hg isotope working group (2025-present)
- Theme organizer, Goldschmidt 2024
- Co-organizer, HgAmazonia Meeting, Expert Workshop on Mercury Research Priorities in the Amazon Region, co-workshop UNESCO International Geoscience Program and MercuRed, Nov. 2022 in Puerto Maldonado, Peru
- Session organizer: 14th International Conference on Mercury as a Global Pollutant (Sept 2019)
- Member of Goldschmidt Awards Committee for the Geochemical Society (2018-2021)
- Theme organizer, Goldschmidt 2018
- Session organizer: 13th International Conference on Mercury as a Global Pollutant (July 2017)
- Session organizer: 100th Canadian Chemistry Conference and Exhibition (May 2017)
- Participant in AARCU (Atmospheric Related Research in Canadian Universities) Workshop (May 2015)
- Member of the Nominations Committee for the Geochemical Society (2011-2015)
- Elected Representative – MIT-WHOI Joint Program Alumni Advisory Committee (2008-2015)
- Member of the IUPAC group, “Terminology and definition of quantities related to the isotope distribution in elements with more than two stable isotopes” (2011-2015)
- Participant in international program GEOTRACES (current)
- Scholar (2009-2014), Canadian Foundation for Advanced Research, Earth System Evolution Program
- Science expert, Environment Canada Oil Sands Hg Meetings, Nov. 2013 and July 2012
- Theme organizer: Goldschmidt 2012 (Montreal)
- Session organizer: AGU Fall meeting, Goldschmidt (several times)
- Member of the Program Committee for the Geochemical Society (2009-2012)
- Panelist and speaker Jan 2012: The Johnson Foundation Sustainable Consumption Forum: Expert Roundtable One, Racine, WI
- Panelist June 2011: NASA S-MIF Workshop
- Invited instructor August 2010: Marie Curie Network INTRAMIF Workshop
- Fellow and participant in the U.S. Environmental Leadership Program (2004/5 class)
- Volunteer: Chemistry Outreach Program, Expanding Your Horizons, Women in Science and Engineering (WISE), Girls Rock Science
- Manuscript reviewer for *Geochimica Cosmochimica Acta*, *Earth and Planetary Science Letters*, *Marine Chemistry*, *Limnology and Oceanography*, *Geophysical Research Letters*, *ES&T*, *G³*, *Nature Geoscience*, *PNAS*, *Chemical Geology*, *Nature Communications*, *Nature*
- Proposal reviewer for the Division of Ocean Sciences at the National Science Foundation

ACADEMIC HISTORY:

RESEARCH GRANTS AND FUNDING

29. 2026-2028, Sumaila, R.&Cheung, W. (co-lead PIs, UBC), co-applicants: Maulad, K., **Bergquist, B.A.**, Drazen, J. Risk Mapping of Pacific Fisheries under Deep-Sea Mining Scenarios, New Frontiers in Research Fund-Exploration, NFRFE-2025-01470, \$250,000.
28. 2025-2026, **Bergquist, B.A.**, Assessing the sources and bioavailability of mercury to the aquatic food web in the St. Lawrence River Area of Concern, MITACS Accelerate, \$45,000

27. 2024-2029, **Bergquist, B.A.**, Assessing the mobility, storage, and biogeochemical cycling of metal contaminants in changing permafrost and northern landscapes, NSERC-Discovery, \$57,000/year for 5 years.
26. 2021-2026, Mitchell, C., **Bergquist, B.A.**, Lehnerr, I., Grants and Contributions, Environment Canada and Climate Change, Climate Change Impacts on Mercury Cycling in the Canadian High Arctic (GCXE22S073), \$179,310. **2 year \$116,000 additional funding extension granted in March 2024.
25. 2021-2025, **Bergquist, B.A.**, Grants and Contributions, Environment Canada and Climate Change, Source tracing of metals in aerosols in an urban environment using isotope fingerprinting for the Study of Winter Air Pollution in Toronto, SWAPIT (GCXE22S071), \$149,000. **1 year \$42,000 additional funding extension granted in March 2024.
24. 2021-2022, Contract, Assessing sources of Hg to the Columbia River, Washington State, USA, up to \$25,000 USD.
23. 2021, Contract, Assessing sources of Hg in the Athabasca watershed, Geological Survey of Canada, \$7,350.
22. 2020-23, Adam Kiefer (Mercer University, PI), Lackey, L., McMahan, C., Seney, C.S., Patel, S., Vega, C., Pan, W., Ptaff, A., **Bergquist, B.A.** (co-applicant), Goldstein, R., McFaul, S. Mercury Capture Systems for ASGM Gold Shops, Gold Medal Winner in the Artisanal Mining Grand Challenge, Conservation X Labs (<https://www.artisanalminingchallenge.com/winners>). \$200,000 USD (20-30K direct for Bergquist in addition to logistical and field support).
21. 2022-26, **Bergquist, B. A.** (PI), Fernandez, L., Vega, C., The Fate of Mercury Used in Artisanal and Small-Scale Gold Mining (ASGM) in Amazonian Ecosystems, Council of the International Geoscience Programme, UNESCO. Funding for building a network, \$50,000 USD. (<http://www.unesco.org/new/en/natural-sciences/environment/earth-sciences/international-geoscience-programme/igcp-projects/earth-resources/igcp-project-696/>). Original start date was 2020, but this was postponed to 2021 due to COVID-19.
20. 2020-2021, Jorge D. Abad Cueva, Eddy Langendon, Impacts of alluvial mining in the Madre de Dios Basin: physical effects and mitigation planning, Partnerships for Enhanced Engagement in Research (PEER), The National Academies of Sciences, Engineering and Medicine, USA. My role is as a subcontract to assist in river sediment sampling and run mercury isotopes on select samples (\$10,000 for my part).
19. 2019-24, collaborator on Mather, T., Robinson, S.A., Pyle, D.M., Revealing hidden volcanic triggers for global environmental change events in Earth's geological past using mercury (Hg), European Research Council, Euro\$1,999,599 with \$30,000 direct for Bergquist.
18. 2018-2023, **Bergquist, B.A.**, Understanding the Modern and Past Mercury Biogeochemical Cycle Using Hg Stable Isotopes, NSERC-Discovery, \$36,000/year for 5 years.
17. 2017-2019, **Bergquist, B.A.**, Mercury isotopic fingerprints in areas of concern, Ministry of the Environment and Climate Change, Environmental Monitoring and Reporting Branch, \$64,800.
16. 2017-2019, **Bergquist, B.A.**, Mitchell, CPJ, Wania, F. Tracking atmospheric mercury sources by isotopic fingerprinting, Ministry of the Environment and Climate Change, Best in Science Program, \$90,400.
15. 2014-2017, Wania, F., Mitchell, CPJ, **Bergquist, B.A.**, A Passive Air Sampler for Precise, Spatially Distributed Atmospheric Mercury Monitoring and Source Characterization, NSERC-Strategic, \$200,000.

14. 2013-2015, Veiga, M., Velasquez-López, C., **Bergquist, B.A.**, Kieger, A., Drace, K., Guimarães, J.R.D., Kaplan, R.J., Implementing integrated measures for minimizing mercury releases from artisanal gold mining. UNIDO, \$349,995 (\$46,400 direct for Bergquist).
13. 2012-2018, Francois, R., **Bergquist, B.A.** + 19 co-applicants. The Canadian arctic GEOTRACES program: Biogeochemical and tracer study of a rapidly changing arctic ocean. NSERC Climate Change and Atmospheric Research (CCAR). \$4,833,356 (my part is iron and lead isotopes and trace metals in aerosols).
12. 2012-2018, Weiss, D., Barnes, S-J., **Bergquist, B.A.**, Clark, I., Francois, R., Hillaire-Marcel, C., Mayer, U., Scoates, J.S., Sherwood Lollar, B., Collaborative Research and Training Experience (CREATE), Multidisciplinary Applied Geochemistry Network (MAGNET), \$1,650,000.
11. 2011-2012, Veiga, M., **Bergquist, B.A.**, Velasquez-López, C., Guimarães, J.R.D. Transboundary Water Pollution in Ecuador and Peru: Applying Mercury Stable Isotopes to Differentiate between Mercury from ASGM and Land-Use Change in Ecuador, US-DOS Bureau of Oceans and International Environmental and Scientific Affairs, Office of Environmental Policy, Mercury Program as part of the project "Reducing Mercury Use and Release in Andean Artisanal and Small-Scale Gold Mining" (award number SLMAQM-10-CA-312-RC), \$28,000 for Bergquist.
10. 2011, **Bergquist, B.A.**, Steffan, A. (Environment Canada), Mercury isotopes in atmospheric particles from the Arctic, preliminary investigation, \$6,000.
9. 2009-2014, **Bergquist, B.A.**, Canadian Foundation for Advanced Research, Earth System Evolution Program, \$15,000 for first year (prorated), \$25,000/year for remaining 4 years.
8. 2010-2012, Reinfelder, Barkay, Blum, and **Bergquist** as a collaborator, NSF-Emerging Topics in Biogeochemical Cycles, Mass-dependent and independent Hg isotope fractionation during microbial methylation and redox transformations of Hg in natural waters. \$15,000 support for Bergquist's laboratory in Canada and \$40,000 for isotope analyses at University of Michigan for Bergquist's samples and projects.
7. 2010-2015, **Bergquist, B.A.**, Trace Metal and Metal Isotope Biogeochemistry, CFI-IOF, \$17,600/year for 5 years.
6. 2008-2009, **Bergquist, B.A.**, Trace Metal and Metal Isotope Biogeochemistry, ORF, \$440,000.
5. 2008-2009, **Bergquist, B.A.**, Trace Metal and Metal Isotope Biogeochemistry, CFI-LOF, \$440,000.
4. 2008, **Bergquist, B.A.**, Mercury and Mercury Isotopes in the Environment, NSERC-RTI Category I, \$69,950.
3. 2008-2016, **Bergquist, B.A.**, Trace Metal and Metal Isotope Biogeochemistry, NSERC-Discovery, March 2008, \$25,000/year for 5 years.
2. 2005-2007, **Bergquist, B.A.**, Calcium Isotopes in Lake Sediments, University of Michigan Turner Postdoctoral Fellow, \$50,000/year (2 years)
1. 2002, **Bergquist, B.A.**, Iron Isotopes in the Amazon River System, \$2500, MIT Houghton Fund.)

SCHOLARLY AND PROFESSIONAL WORK:

***Authors under my supervision are indicated by asterisks.*

PUBLICATIONS SUBMITTED AND IN PREPARATION (CLOSE TO FINALIZED):

1. *in prep.*, Samantha T. Brown,† Fernandez, L., Szponar, N.*(PHD student), Vega, C., Hugdahl, J.D., **Bergquist, B.A.**, Kiefer, A., Passive Air Samplers for Hg⁰ Complement the Mapping of Peruvian Gold Shops Using Portable Spectrometers, submitted to Science of the Total Environment.
2. *in prep.*, Chandan, P.*(PHD student), Slater, G.S., Muir, D., Bergquist, B.A., Seasonal changes in UV reflected in Hg and Hg isotopes of freshwater plankton, in preparation for Earth and Space Chemistry.
3. *in prep.*, Schudel, G., Chandan, P.*(PHD student), N. Fisher, Z. Baumann Z, D. Madigan, B.A. Bergquist. Stable Hg isotope study of monomethylmercury sources in Pacific and Atlantic Ocean, in preparation for Marine Chemistry.
4. *in prep.*, Rahman, N.*(PHD student), Bhavsar, S., Griffiths, R., Abernethy, S., Chandan, P.*(PHD student), Bergquist, B.A., Tracing mercury sources in contaminated freshwater sediments and biota using mercury isotopes: St. Clair River Area of Concern, in prep for Environmental Pollution.
5. *in prep.*, Natalie Szponar*(PHD student), Krystal Nason*(PHD student), David McLagan, Jacqueline R Gerson, Luis Fernandez, Claudia Vega, Emily Bernhardt, Carl Mitchell. Frank Wania, BA Bergquist, Tracing uptake of gaseous elemental Hg released from artisanal and small-scale gold mining into trees and soils of the Peruvian Amazon using mercury stable isotopes, in prep for Global Biogeochemical Cycles.
6. *in prep.*, B. Barnhart*(PHD student), J. Goordial, L. Mollica, K. Nason*(PHD student), P. Morse, R. Hall, S. Finkelstein, A.J. Poulain, B.A. Bergquist, Insights into Sources and Mobility of Mercury in Arctic and Subarctic Soils from Mercury Stable Isotopes,
7. *in prep.*, Nason, K*(PHD student), N. Szponar*(PHD student), C.M. Vega, J. Gerson, E. Bernhardt, M. Moreno-Brush, L.E. Fernandez, and B.A. Bergquist, Identifying Sources of Mercury in Peruvian Amazon Aquatic System using Mercury Stable Isotopes

REFEREED PUBLICATIONS

- submitted*, Staniszewska, K.; Cooke, C.; Reyes, A.; Graydon, J.; **Bergquist, B.A.**; Nason, K. (PHD student), Inorganic sediment erosion drives high seasonal and annual mercury fluxes in the subarctic Yukon River, Canada.
- submitted*, Wania, F, Yin, X., Isabel Quant, Aryeh Feinberg, M., Szponar, N.*(PHD student), **Bergquist, B.A.**, Gevao, B., Calleja-Amador, C.E., Andrade, M.F., Aristizabal, B.H., Azevedo, A, Chakraborty, P., Evers, D.C., Roa-Gutierrez, F., Miglioranza, K.S.B., Moreno R.,C.I., Nason, K. *(PHD student), Pokhrel, B., Pozo, K.A., Selin, N.E., Wang, L., Zavala, Y., Zhang, Q., Wang, X., Fillmann, G., Filling Gaps in the Global Atmospheric Monitoring of Gaseous Elemental Mercury.
60. 2026, Chételat, J., Hebert, C., Demers, J., Cooke, C.A., McClelland, C., Angel, M., **Bergquist, B.A.**, Evans, M., Fahnestock, M.F., Güneşli, K., Greenwood, S., Maclean, B., McMaster, M., Mundy, L., Tetreault, G., Thomas, P.J., The Athabasca river regulates methylmercury burdens of waterbirds breeding downstream, Scientific Reports, 16, Article number: 5630 (16 pages)
 59. 2025, Sun, Jiaxin; Zhao, Y.; **Bergquist, B.**; Li, P.; Sun, R.; Liu, Y.; Chen, J.; Zheng, W., High precision analysis of mercury isotopes at ultra-low concentration using dry cold vapor generation, ac-2025-01180d., Journal of Analytical Atomic Spectrometry, 40(8), 2251-2260.
 58. 2025, Ran, C.*(Visiting PHD), Guo, M., Wang, Y., Li., Y., Wang, J., Liu, C., **Bergquist, B.A.**, Peng, C., Can oxidative potential be a plant risk indicator for heavy metals contaminated soil? Analysis of ryegrass (*Lolium perenne* L.) metabolome based on machine learning, Eco-Environment & Health, Vol. 4, 100140 (8 pages).

57. 2025, Jacqueline Gerson, I. Lehnherr, T. Luu, **B. Bergquist**, N. Szponar *(PHD student), L.E. Fernandez, C. Vega, T.J Porter, Ficus insipida tree rings as biomonitors for gaseous elemental mercury in the artisanal gold mining-impacted Peruvian Amazon, *Frontiers in Environmental Science*, 13, 1531800 (10 pages).
56. 2025, Natalie Szponar*(PHD student), Vega, C.M., Gerson, J.R., McLagan, D.S., Pillaca, M., Antoni, S., Lee, D., Rahman, N., Fernandez, L.E., Bernhardt, E.S., Kiefer, A., Mitchell, C.P.J., Wania, F., **Bergquist, B.A.**, Tracing Atmospheric Mercury from Artisanal and Small-Scale Gold Mining, *Environmental Science and Technology*, 59(10), 5021-5033.
55. 2025, Chunmei Ran*(Visiting PHD), M. Guo, Y. Wang, Y. Li, J. Wang, Y. Zhang, C. Liu, **B.A. Bergquist**, C. Peng, Can oxidative potential be a plant risk indicator for heavy metals contaminated soil? Analysis of ryegrass (*Lolium perenne* L.) metabolome based on machine learning, *Eco-Environment & Health*, 4, 100140 (8 pages).
54. 2024, Frieling, Joost, Mather, T.A., Fendley, L.M., Jenkyns, H.C., Zhao, Z., Dahl, T.W., **Bergquist, B.A.**, Cheng, K.*(undergrad USRA), Nielsen, A.T., Dickson, A.J., No evidence for a volcanic trigger for late Cambrian carbon-cycle perturbations, *Geology*, 52(1), 12-16, <https://doi.org/10.1130/G51570.1>.
53. 2023, Hongwei Liu, Zheng, W., **Bergquist, B.A.**, Gao, Y., Yue, F., Yang, L., Xie, Z., A 1500-year record of Hg isotopes in seal feces documenting sea ice changes in the Antarctic, *Communications Earth & Environment*, 4, Article #258, <https://doi.org/10.1038/s43247-023-00921-3>.
52. 2023, Shi, Miao, **Bergquist, B.A.**, Zhou, A., Zhao, Y., Sun, R., Chen, J., Zheng, W. The efficiency of Hg cold vapor generation and its influence on Hg isotope analysis by MC-ICP-MS, *Journal of Analytical Atomic Spectrometry*, 38, 1076-1087.
51. 2023, Natalie Szponar*(PHD student), Su, Y., Stupple, G., McLagan, D., Pilote, M., Munoz, A., Mitchell, C.P.J., Steffen, A., Wania, F., **Bergquist, B.A.**, Applying Passive Air Sampling and Isotopic Characterization to Assess Spatial Variability of Gaseous Elemental Mercury across Ontario, Canada, *JGR-Atmosphere*, Vol. 128, e2022JD037361
50. 2022, Elizabeth Phillips, **Bergquist, B.A.**, Chartrand, M.M.G., Chen, W., Edwards, E.A., Elsner, M., Gilevska, T., Hirschorn, S., Horst, A., Lacrampe-Couloume, G., Mancini, S.A., McKelvie, J., Morrill, P.L., Ojeda, A.S., Slater, G.F., Sleep, B.E., De Vera, J., Warr, O., Passeport, E., Compound specific isotope analysis in hydrogeology, *Journal of Hydrology*, Volume 615, Part A, 128588, <https://doi.org/10.1016/j.jhydrol.2022.128588>.
49. 2022, Araujo, B.F., Osterwalder, S., Szponar, N.*(PHD student), Lee, D.*(MSC student), Petrova, M.V., Pernov, J.B., Ahmed, S., Heimbürger-Boavida, L-E., Laffont, L., Teisserenc, R., Tanaaev, N., Nordstrom, C., Magand, O., Stupple, G., Skov, H., Steffen, A., **Bergquist, B.**, Pfaffhuber, K.A., Thomas, J.L., Scheper, S., Petaja, T., Dommergui, A., Sonke, J.E., Mercury isotope evidence for Arctic summertime re-emission of mercury from the cryosphere. *Nature Communication* **13**, 4956 (2022). <https://doi.org/10.1038/s41467-022-32440-8>
48. 2022, Figueirido, T.S.*(Visiting PHD), **Bergquist, B.A.**, Santos, T.P., Albuquerque A. L. S., Silva-Filho, E. V., Relationship between glacial CO₂ drawdown and mercury cycling in the western South Atlantic: An isotopic insight, *Geology*, v.50, issue 7, pp. 801-805, <https://doi.org/10.1130/G49942.1>,
47. 2022, Gerson, J.R., Szponar, N.*(PHD student), Agostini, A., Alotaibi, R., **Bergquist, B.A.**, Chen, A., Fernandez, L.E., Lansdale, K.N., Lee, A.H., Machicao, M.F., Marchese, M.J., Topp, S.N., Vega, C., Bernhardt, E.S., Chemistry of surface water, precipitation, throughfall, leaves, sediment, soil, and air near a gold mining region in Peru. *Ecology* 103 (5), e3666.

46. 2022, Gerson, J. R., Szponar, N.*(PHD student), Zambrano, A.A., **Bergquist, B.A.**, Broadbent, E.N, Driscoll, C.T., Fernandez, L.E., Hsu-Kim, H., Pan, W., Silman, M.R., Ury. E.A., Vega, C., Bernhardt, E.S., Amazon forests capture high levels of atmospheric mercury pollution from artisanal gold mining, *Nature Communications*, Volume 13, Article number: 559, <https://doi.org/10.1038/s41467-022-27997-3>. ***Article covered in *Scientific American* and *New York Times*.
45. 2021, De Vera, Joan*(PHD student), Chandan, P.*(PHD student), W. Landing, G.W. Stuppel, A. Steffen and **B.A. Bergquist**, The amount, sources, and dissolution of aerosol trace elements in the Canadian Arctic, *Earth and Space Chemistry*, v. 5, pg. 2686-2699.
44. 2021, Greenough, J. D., Kamo, S. L., Davis, D. W., Larson, K., Zhang, Z., Layton-Matthews, D., De Vera, J.*(PHD student), **Bergquist, B. A.**, Old subcontinental mantle zircon below Oahu, *Communications Earth & Environment*, 2(1), 189, DOI:10.1038/s43247-021-00261-0.
43. 2021, De Vera, Joan*(PHD student), Chandan, P.*(PHD student), Pineda-Gomez, P., John, S., Jackson, S., Cullen, J., Columbo, M., Orians, K.J., **Bergquist, B.A.**, Anthropogenic lead pervasive in Canadian Arctic seawater, *PNAS*, 118 (24), e2100023118, June 14, 2021.
42. 2021, Zheng, W.*(PDF), Chandan, P.*(PHD student), Steffen, A., Stuppel, G., De Vera, J.*(PHD student), Mitchell, C., Wania, F., **Bergquist, B.A.** Mercury stable isotopes reveal the sources and transformations of atmospheric Hg in the high Arctic, *Applied Geochemistry*, v.131, pp. 105002.
41. 2021, Yager, J.A., West, J., Berelson, W.M, Bottjer, D., Corsetti, F.A., Greene, S., Ibarra, Y., Jadoul, F., Rigo, M., Ritterbush, K. A., Rollins, N., Rosas, S., di Stefano, P., Sulca, D., Thibodeau, A.M.*(PDF), Todaro, S., , Wynn, P., Zimmerman, L.*(student), **Bergquist, B.A.**, Mercury contents and isotope ratios from diverse depositional environments across the Triassic–Jurassic Boundary: Towards a more robust mercury proxy for large igneous province magmatism, *Earth Science Reviews*, Dec. 2021, 103775.
40. 2021, Washburn, Spencer, Blum, J.D, Motta, L., **Bergquist, B.A.**, Weiss-Penzias, P., Isotopic Composition of Hg in Fog Waters of Coastal California, USA, *Environmental Science and Technology*, 8, 1, 3-8, <https://doi.org/10.1021/acs.estlett.0c00716>.
39. 2020, Meng Si, McLagan, D.S., Mazot, A., Szponar, N.S.*(PHD student), **Bergquist, B.A.**, Lei, Y.D., Mitchell, C.P., Wania, F. Measurement of atmospheric mercury over volcanic and fumarolic regions on the North Island of New Zealand, *Earth and Space Chemistry*, Vol. 4 (12), DOI:10.1021/acsearthspacechem.0c00274.
38. 2020, Szponar, N.*(PHD student), McLagan, D., Kaplan, R.J.*(student), Mitchell, C.P.J., Wania, F., Steffen, A., Stuppel, G.W., Monaci, F., **Bergquist, B.A.**, Isotopic Characterization of Atmospheric Gaseous Elemental Mercury by Passive Air Sampling, *Environmental Science and Technology*, 54, 17, 10533-10543.
37. 2020, Figueiredo, T. S.*(Visiting PHD), Santos, T. P., Costa, K. B., Toledo, F., Albuquerque A. L. S., Smoak, J. M., **Bergquist, B. A.**, Silva-Filho, E. V., Effect of deep Southwestern Subtropical Atlantic Ocean circulation on the biogeochemistry of mercury during the last two glacial/interglacial cycles, *Quaternary Science Reviews*, Vol. 239, 1 July 2020, 106368.
36. 2020, Percival, L. M. E., **Bergquist, B. A.**, Mather, T., & Sanei, H. Sedimentary mercury enrichments as a tracer of Large Igneous Province volcanism (R. E. Ernst, A. Al Suwaidi, A. Bekker, & A. Dickson, Eds.). *American Geophysical Union, Large Igneous Provinces: A Driver of Global Environmental and Biotic Changes* (editors R.R. Ernst, A. Dickson, A. Bekker), Chapter 11.
35. 2019, Schudel, G.*(MSC student), Kaplan, R.*(student), Adler Miserendino, R.*(PHD student), Veiga, M.M, Velasquez-López, P.C., Guimarães, J.R.D., **Bergquist, B.A.**, Mercury

- isotopic signatures of tailings from artisanal and small-scale gold mining in southwestern Ecuador, *Science for the Total Environment*, v. 686, p. 301-310.
34. 2019, Colombo, M., Brown, K., De Vera, J.*(PHD student), **Bergquist, B.A.**, Orians, K.J., Trace Metal Geochemistry of Remote Rivers in the Canadian Arctic Archipelago, *Chemical Geology*, 525, 479-491.
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 31. 2018, **Bergquist, B.A.** (2017). Mercury Isotopes (Chapter), *Encyclopedia of Geochemistry*, Springer International Publishing, pg. 900-906, ISBN: 978-3-319-39311-7.
 30. 2018, Marshall, B.G., Veiga, M., Kaplan, R.*(student), Miserendino, R.A.*(PHD student), Schudel, G.*(MSC student), **Bergquist, B.A.**, Guimarães, J.R., Gonzalez-Mueller, G. Evidence of transboundary mercury and other pollutants in the Puyango-Tumbes River basin, Ecuador–Peru, *Environmental Science: Processes and Impacts*, 20, 632-641.
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 28. 2017, **Bergquist, B.A.** Mercury, volcanism, and mass extinctions. *Proceedings of the National Academy of Science*. 114(33): 8675-8677.
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 26. 2017, Thibodeau, A.M.*(PDF), **Bergquist, B.A.** Do mercury isotopes record the signature of massive volcanism in marine sedimentary records? *Geology*. 45: 95-96.
 25. 2017, Cheyne, C.A.L.*(MSc student), Thibodeau, A.M.*(PDF), Slater, G.F., **Bergquist, B.A.** Lead isotopes as particulate contaminant tracers and chronostratigraphic markers in lake sediments in northeastern North America. *Chemical Geology*, 477, 47-57.
 24. 2016, Zheng W.*(PDF), Obrist D., Weis D., **B.A. Bergquist**. Mercury isotope compositions across North American forests, *Global Biogeochemical Cycles*, 10.1002/2015GB005323
 23. 2016, Thibodeau, A.M.*(PDF), Ritterbush, K., Yager, J., West, J., Ibarra, Y., Bottjer, D., Berelson, W., **Bergquist, B.A.**, Corsetti, F. Mercury anomalies and the timing of biotic recovery following the end-Triassic mass extinction, *Nature Communications*, April 6, 2016, DOI: 10.1038/ncomms11147.
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- Inductively Coupled Plasma Mass Spectrometry, *Journal of Analytical Atomic Spectrometry*, 31, 2060-2068.
21. 2015, Zheng, W.*(PDF), Xie, Z., **Bergquist, B.A.**, Mercury stable isotopes in ornithogenic deposits as tracers of historical cycling of mercury in Ross Sea, Antarctica, *Environmental Science and Technology*, 49, 7623-7632.
 20. 2015, Rose, C.*(MASC student), Ghosh, S.*(PDF), Blum, J.D., **Bergquist, B.A.**, Effects of ultraviolet radiation on mercury isotope fractionation during photo-reduction of inorganic and organic mercury species, *Chemical Geology*, 405, 102-111.
 19. 2015, Chandan, P.*(MASC student), Ghosh, S.*(PDF), **Bergquist, B.A.**, Mercury isotope fractionation during aqueous photoreduction of monomethylmercury in the presence of dissolved organic matter, *Environmental Science and Technology*, 49, 259-267.
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 17. 2013, Adler-Miserendino, R.*(PhD student), **Bergquist, B.A.**, Adler, S.E., Guimarães, J.R.D., Lees, P.S.J, Niquen, W., Velasquez-López, P.C., Veiga, M. Challenges to Measuring, Monitoring, and Addressing the Cumulative Impacts of Artisanal Small-Scale Gold Mining in Ecuador, *Resources Policy*, 38, 713-722.
 16. 2013, Ghosh, S.*(PDF), Schauble, E.A., Lacrampe-Couloume, G., Blum, J.D., **Bergquist, B.A.**, Estimation of nuclear volume dependent fractionation of mercury isotopes in mercury liquid-vapor experiments, *Chemical Geology*, 336, 5-12.
 15. 2012, Rotenberg, E., Davis, D.W., Amelin, Y., Ghosh, S., **Bergquist, B.A.** Determination of the decay-constant of ^{87}Rb by laboratory accumulation of ^{87}Sr , *Geochimica Cosmochimica Acta*, 85, 41-57.
 14. 2009, **Bergquist, B.A.**, Blum, J.D. The odds and evens of mercury isotopes: applications of mass-dependent and mass-independent isotope fractionation, *Elements*, 5, 353-357.
 13. 2008, Biswas, A., Blum, J.D. **Bergquist, B.A.**, Keeler, G.J., Xie, Z. Natural mercury isotope variation in coal deposits and organic soils. *Environmental Science and Technology*, 42, 8303-8309.
 12. 2007, **Bergquist, B.A.**, Blum, J.D. Mass-dependent and -independent fractionation of Hg isotopes by photoreduction in aquatic systems, *Science* 318, 417-420; published in *Science Express*, Sept. 13, 2007, 10.1126, Science.1148050.
 11. 2007, Blum, J.D., **Bergquist, B.A.** Reporting of variations in the natural isotopic composition of mercury, *Analytical and Bioanalytical Chemistry*, 388, 353-359.
 10. 2007. Johnson, K.S., Boyle, E.A., Bruland, K., Coale, K., Measures, C., Moffett, J., Aguilar, A., Barbeau, K., **Bergquist, B.A.**, Bowie, A., Buck, K., Cai, Y., Chase, Z., Cullen, J., Doi, T., Elrod, V., Fitzwater, S., Gordon, M., Laan, P., Laglera-Baquer, L., Landing, W., Lohan, M., Mendez, J., Milne, A., Obata, H., Osslander, L., Plant, J., Sarthou, G., Sedwick, P., Smith, G., Sohst, B., Tanner, S., Van den Berg, S., Wu, J. Developing standards for dissolved iron in seawater. *Eos*, Vol. 88. No. 11.
 9. 2007, **Bergquist, B.A.**, Wu, J, Boyle, E.A. Variability in oceanic dissolved iron is dominated by the colloidal fraction, *Geochimica Cosmochimica Acta*, 71, 2960-2974.
 8. 2007, Kritee K, Blum, J.D., Johnson, M.W., M.W., **Bergquist, B.A.**, Barkay, T. Mercury stable isotope fractionation during reduction of Hg(II) to Hg(0) by mercury resistant microorganisms, *Environmental Science and Technology*, Vol. 41, 1889-1895.
 7. 2006, **Bergquist, B.A.**, Boyle, E.A. Iron isotopes in the Amazon River System: Weathering and Transport Signatures, *Earth and Planetary Science Letters*, 248, 39-53.

6. 2006, Cullen, J.T., **Bergquist, B.A.**, Moffett, J.W. Thermodynamic characterization of the partitioning of iron between soluble and colloidal species in the Atlantic Ocean, *Marine Chemistry*, 98, 295-303.
5. 2006, **Bergquist, B.A.**, Boyle, E.A. Dissolved iron in the tropical and subtropical Atlantic Ocean, *Global Biogeochemical Cycles*, 20, 20, GB1015, doi:10.1029/2005GB002505.
4. 2005, Lima, A.L., **Bergquist, B.A.**, Boyle, E.A., Reuer, M.K., Reddy, C.M., Eglington, T.I. High-resolution historical records from Pettaquamscutt River basin sediments: Pb-isotopes reveal a potential new stratigraphic marker. *Geochimica Cosmochimica Acta*, 69, 1813-1824.
3. 2005, Boyle, E.A., **Bergquist, B.A.**, Kayser, R.A., Wu, J. Iron, Manganese, and Lead at Hawaii Ocean Time Series Station ALOHA: Temporal Variability and an Intermediate Water Hydrothermal Plume. *Geochimica Cosmochimica Acta*, 69, 933-952.
2. 2000, **Bergquist, B.A.**, Marchetti, A.A., Matinelli, R.E., McAninch, J.E., Nimz, G.J., Proctor, I.D., Southon, J.R., Vogel, J.S. Technetium Measurements by Accelerator Mass Spectrometry at LLNL. *Nuclear Instruments and Methods in Physics Research B*, 172, 328-332.
1. 1998, McAninch, J.E., Marchetti, A.A., **Bergquist, B.A.**, Stoyer, N.J., Proctor, I.D., Nimz, G.J., Caffee, M.W., Finkel, R.C., Moody, K.J., Sideras-Haddad, E., Buchholz, B., Esser, B.K. Detection of ⁹⁹Tc by accelerator mass spectrometry: preliminary investigations. *Journal of Radioanalytical and Nuclear Chemistry*, V. 234, 125-129.

INVITED ORAL PRESENTATIONS:

1. 2025, Dec., Bergquist, BA & Fernandez, L (presented my talk)., Tracing mercury from artisanal and small scale gold mining in the environment using mercury stable isotopes, International Seminar on Illicit Activities and Traceability in the Gold Supply Chain, Brasilia, Brazil.
2. 2024, Dec., Bridget A. Bergquist, B. Barnhart, J. Goordial, L. Mollica, K. Nason, P. Morse, R. Hall, S. Finkelstein, A.J. Poulain, Insights into Sources and Mobility of Mercury in Arctic and Subarctic Soils from Mercury Stable Isotopes, AGU Fall Meeting, Washington DC.
3. 2024, Aug., Bridget A. Bergquist, B. Barnhart, J. Goordial, L. Mollica, K. Nason, P. Morse, R. Hall, S. Finkelstein, A.J. Poulain, Sources and Remobilization of Mercury in Arctic and Sub-Arctic Soils, Pollution and Mitigation, Goldschmidt, Chicago, USA, **Keynote**.
4. 2023, Nov., Bridget A. Bergquist, Sources and Remobilization of Mercury in Arctic and Sub-Arctic Soils, CIFAR Meeting for Earth 4D: Subsurface Science & Exploration Program Meeting, Toronto, Canada.
5. 2022, Nov., Bridget A. Bergquist, Artisanal and Small-Scale Gold Mining: Land Use Change, Pollution and Mitigation, CIFAR Meeting for Earth 4D: Subsurface Science & Exploration Program Meeting, Toronto, Canada.
6. 2022, Oct., Bridget A. Bergquist, Applications of Mercury Stable Isotopes – from Ancient to Modern, University of Stockholm, Sweden.
7. 2022, June, Bridget A, Bergquist, Luis E. Fernandez, Claudia M. Vega, Natalie Szponar, Jacqueline R. Gerson, Krystal Nason, Emily S. Bernhardt, A new program aimed at understanding impacts of artisanal and small-scale gold mining in the Amazon (IGCP project 696), GAC-MAC, Halifax, Canada.
8. 2022, May, Bridget A. Bergquist, Natalie Szponar, Frank Wania, Carl Mitchell, Alexandra Steffen, Geoff Stupple, David McLagan, Yushan Su, Luis Fernandez, Claudia Vega, Tracing Atmospheric Mercury through Passive Air Sampling and Isotopes, Canadian Chemistry Conference and Exhibition, Calgary.

9. 2021, Oct., Bridget A. Bergquist, Applications of Mercury Stable Isotopes: Modern and Deep Time, Vrije Universiteit Brussel, online.
10. 2020, Nov., Bridget A. Bergquist, Applications of Mercury Stable Isotopes, seminar series for the School of Earth System Science, Tianjin University, China, online.
11. 2020, Aug., Bridget A. Bergquist, Using mercury isotopes to trace sources of Hg in the Amazon, Webinar/outreach event “Impactos ambientales de la minería aluvial en la cuenca del río de Madre de Dios” with over 100 participants from communities and government officials in Peru.
12. 2020, May, cancelled due to COVID, Bergquist, B.A., N. Szponar, C. Vega, L. Fernandez, J. Gerson, D. McLagan, F. Wania, C. Mitchell, G. Schudel, R. Adler Miserendino, Tracing Sources of Mercury in Amazonian Systems using Mercury Stable Isotopes, Canadian Chemistry Conference and Exhibition, Winnipeg – invited oral presentation.
13. 2020, Feb., Bridget A. Bergquist, The use of mercury isotopes in ASGM research, Workshop on Mercury Research Priorities in the Amazon Region, Wake Forest University, North Carolina, USA, invited oral presentation
14. 2019, Sept., Bergquist, B.A., Szponar, N., McLagan, D., Wania, F., Mitchell, C., Stuppel, G., Steffen, A., Wu, Y. Passive Air Sampling of Gaseous Elementary Mercury for Isotopes, workshop at International Conference on Mercury as a Global Pollutant, Krakow, Poland.
15. 2018, June, Bergquist, B.A., Szponar, N., Chandan, P., McLagan, D., Stuppel, G., Zimmerman, L., Wania, F., Mitchell, C., Steffen, A., Monaci, F., Derry, L. Environmental applications of mercury isotopes, International Conference on Analytical Sciences and Spectroscopy, Toronto, ON.
16. 2018, May, Bergquist, B.A., Szponar, N., Chandan, P., McLagan, D., Stuppel, G., Zimmerman, L., Wania, F., Mitchell, C., Steffen, A., Monaci, F., Derry, L. Environmental applications of mercury isotopes, Canadian Chemistry Conference and Exhibition, Edmonton, Alberta.
17. 2018, Feb., Bergquist, B.A., Applications of Mercury Isotopes – Modern to Ancient, Princeton, NJ.
18. 2017, Sept., Bergquist, B.A., Tracing mercury pollution with mercury isotopes, Isotope Workshop, Geosyntec, Toronto, ON.
19. 2017, Feb., Bergquist, B.A., Artisanal Scale Gold Mining, UTSC International Development Conference, Scarborough.
20. 2017, Feb., Bergquist, B.A., Applications of Mercury Stable Isotopes, Ministry of the Environment and Climate Change.
21. 2015, Oct., Bergquist, B.A., The odds and evens of mercury isotopes: implications for understanding Hg biogeochemistry, Centre for Global Change Science Seminar, Toronto, Canada.
22. 2015, May, Bergquist, B.A., Exploiting stable Hg isotopes to differentiate between Hg Sources: Gold mining vs. land use change, Ministry of the Environment Calibration and Validation Group Workshop, Toronto.
23. 2015, Feb., Bergquist, B.A., The Odds and Evens of Mercury Isotopes: Implications for Understanding Hg Biogeochemistry, Cornell University, Ithica.
24. 2014, Mar., Bergquist, B.A., The Odds and Evens of Mercury Isotopes: Implications for Understanding Hg Biogeochemistry, University of Utah, Salt Lake City.

25. 2014, Feb., Bergquist, B.A., The Odds and Evens of Mercury Isotopes: Mechanisms of Mass Independent Fractionation and Implications for Understanding Hg Biogeochemistry, Gordon Research Conference, Galveston, TX.
26. 2013, Dec., Bergquist, B.A., R. Adler Miserendino, J.R.D. Guimarães, M.Veiga, P.C. Velasquez-López, Peter S. J. Lees, Alyson Thibodeau, Luis E. Fernandez. Exploiting Stable Mercury Isotopic Analysis to Differentiate between Mercury Sources: Gold Mining vs. Land-Cover and Land-Use Change, AGU Fall Meeting, San Francisco, CA.
27. 2012, Oct., Bergquist, B.A., The odds and evens of mercury isotopes: implications for understanding Hg biogeochemistry, Woods Hole Oceanographic Institute, Woods Hole, MA.
28. 2012, May, Bergquist, B.A., Mercury Pollution in the Amazon: Artisanal Small-Scale Gold Mining or Land-Use Changes? American Meteorological Society Conference on Atmospheric Biogeosciences, Boston, MA.
29. 2012, Jan., Bergquist, B.A., Global environmental trends, The Johnson Foundation Sustainable Consumption Forum: Expert Roundtable One, Racine, WI.
30. 2011, Oct., Bergquist, B.A., Applications of Hg isotopes from the modern to the Archean, Johns Hopkins University, Dept. of Earth and Planetary Sciences, Baltimore, MD.
31. 2011, Oct., Bergquist, B.A., The odds and evens of mercury isotopes: implications for understanding Hg biogeochemistry, Johns Hopkins University, School of Public Health, Baltimore, MD.
32. 2011, Mar., Bergquist, B.A., Perceptions of women in science: the role of unconscious bias, WISE workshop, McMaster University, Hamilton, ON.
33. 2010, Dec., Bergquist, B.A., Mechanisms and Signatures of Mercury Mass Independent Fractionation, AGU Fall Meeting, San Francisco, CA.
34. 2010, Dec., Bergquist, B.A., Mechanisms of Mercury Mass Independent Fractionation, DOE sponsored Isotope Geoscience Workshop, San Francisco, CA.
35. 2010, Sept., Bergquist, B.A., The odds and evens of mercury isotopes, Earth, Atmospheric and Planetary Sciences, MIT, Cambridge, MA.
36. 2010, Aug., Bergquist, B.A., Mercury Isotopes: Implications for Understanding Hg Biogeochemistry + Mechanisms of Mass-Independent Fractionation: The Magnetic Isotope Effect and the Nuclear Volume Effect, Marie Curie Network INTRAMIF Workshop, School of Environmental Sciences, University of East Anglia, Norwich, England.
37. 2009, Apr., Bergquist, B.A., The odds and evens of mercury isotopes, Natural Philosophers group, University of Toronto, Physics Department, Toronto, ON.
38. 2009, Dec., Bergquist, B.A., The odds and evens of mercury isotopes, Earth and Ocean Sciences Seminar, University of British Columbia, Vancouver, Canada.
39. 2009, Sept., Bergquist, B.A., The odds and evens of mercury isotopes, Earth System Evolution Program, Canadian Institute for Advanced Research, Halifax, Canada.
40. 2009, June, Bergquist, B.A., Blum, J.D., Jude, D. Mass-dependent and mass-independent fractionation of mercury isotopes in aquatic systems, 9th International Conference on Mercury as a Global Pollutant, Guiyang, China.
41. 2008, Dec., Bergquist, B.A., Blum, J.D., Jude, D. Mass-dependent and mass-independent fractionation of mercury isotopes in aquatic systems, AGU Fall Meeting, San Francisco, CA.
42. 2008, July, Bergquist, B.A., Blum, J.D., Jude, D. Mass-dependent and mass-independent fractionation of mercury isotopes, KEYNOTE Oral presentation. Goldschmidt Meeting, Vancouver, BC, Canada.

43. 2008, July, Bergquist, B.A., Blum, J.D. Utilization of Mass Dependent and Mass Independent Fractionation of Mercury Isotopes to understand mercury cycling and bioaccumulation in aquatic ecosystems. Goldschmidt Meeting, Vancouver, BC, Canada.
44. 2008, June, Bergquist, B.A., New isotopic tracers of metals in the environment, Invited oral presentation. Env. Bioinorganic Chem. Gordon Conference, Waterville Valley, NH.
45. 2008, May, Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes in aquatic systems. University of Toronto, Department of Chemistry.
46. 2008, May, Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes in aquatic systems. GRL, Carnegie Institute for Science, Washington DC.
47. 2008, Apr., Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes in aquatic systems. McGill University, Montreal, Quebec.
48. 2008, Apr., Bergquist, B.A., My experiences as a women in science. Florida State University, Tallahassee, FL.
49. 2008, Apr., Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes in aquatic systems. Florida State University, Tallahassee, FL.
50. 2008, Feb., Bergquist, B.A., New isotopic tracers of metals in the environment, SUNY ESF, Syracuse, NY, "Standing on the Shoulders of Giants" Lecture Series.
51. 2007, Dec., Bergquist, B.A., Reporting and measurement of mass-dependent and mass-independent fractionation of mercury isotopes. AGU Fall Meeting, San Francisco, CA.
52. 2007, Nov., Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes by photoreduction in aquatic systems. Massachusetts Institute of Technology, Boston, MA.
53. 2007, Oct., Bergquist, B.A., Mass-dependent and mass independent fractionation of Hg isotopes by photoreduction in aquatic systems. California Institute of Technology, Pasadena, CA.
54. 2007, Apr., Bergquist, B.A., New stable isotope tracers in environmental systems. University of Toronto, ON.
55. 2007, Mar., Bergquist, B.A., New stable isotope tracers in environmental systems. Environment Canada, Burlington, ON.
56. 2007, Mar., Bergquist, B.A., The Marine Geochemistry of Iron and Iron Isotopes. Old Dominion University, Norfolk, VA.
57. 2007, Feb., Bergquist, B.A., New stable isotope tracers in environmental systems. Colorado School of Mines, Golden, CO.
58. 2007. Jan., Bergquist, B.A., New stable isotope tracers in environmental systems. McMaster University, Hamilton, Ontario, Canada.
59. 2005, Mar., Bergquist, B.A., The Marine Geochemistry of Iron and Iron Isotopes. University of Michigan, Ann Arbor, MI.

CONFERENCE AND OTHER SELECT PRESENTATIONS:

- 2025, Oct., Barnhart, B*(PHD student), Assessing sources of Hg in the St. Lawrence Area of Concern using Hg isotopes, Cornwall Sediment Strategy meeting.
- 2024 Aug., Rahman, N.*(PHD student), N. Szponar*(PHD student), Nason, K.* (PHD student), Fannie Yiu*(Undergrad student), Slater, G., Bergquist, B.A., Investigation of atmosphere – vegetation mercury isotopic offsets in a remote Canadian forest ecosystem, Goldschmidt August 2024, Chicago, oral presentation.

- 2024 Aug., Nason, K.*(PHD student), N. Szponar*(PHD student), C.M. Vega, J. Gerson, E. Berhardt, M. Moreno-Brush, L.E. Fernandez, and B.A. Bergquist, Identifying Sources of Mercury in Peruvian Amazon Aquatic System using Mercury Stable Isotopes, Goldschmidt August 2024, Chicago, poster presentation.
- 2023 Dec., Cheng, K.*(Undergrad student), Frieling, J., Mather, T.A., Fendley, I.M., Jenkyns, H.C., Zhao, Z., Dahl, T.W., Nielsen, A.T., Dickson, A.J., Bergquist, B.A. Assessing volcanism during the SPICE event using mercury and mercury stable isotopes, AGU Fall Meeting, San Francisco, USA, poster presentation.
- 2023 July, Joost Frieling, Tamsin A. Mather, Isabel M. Fendley, Bridget A. Bergquist, Kathryn Cheng*(Undergrad student), Hugh C. Jenkyns, Zhengfu Zhao, Tais W. Dahl, Arne T. Nielsen and Dr. Alexander J. Dickson, No volcanic trigger for late Cambrian carbon cycle perturbations, Goldschmidt July 2023, Lyon, France, oral presentation.
- 2023 July, Fannie Yiu*(Undergrad student), Nabila Rahman*(PHD student), Krystal Nason*(PHD student), Greg Slater and Bridget A. Bergquist, Assessing Hg deposition pathways from the atmosphere to forest plants and soils using Hg stable isotopes, Goldschmidt July 2023, Lyon, France, poster presentation.
- 2023 July, Kathryn Cheng*(Undergrad student), Wang Zheng*(PDF), Laura Zimmermann*(Undergrad student), Louis A Derry, Greg Slater, Natalie Szponar*(PHD student) and Bridget A. Bergquist, Assessing the deposition of atmospheric mercury in Hawaiian soils from the Big Island using Hg stable isotopes, Goldschmidt July 2023, Lyon, France, poster presentation.
- 2023 July, Bridget A. Bergquist, Natalie Szponar*(PHD student), Krystal Nason*(PHD student), David McLagan, Jacqueline R Gerson, Luis Fernandez, Claudia Vega, Emily Bernhardt, Carl Mitchell and Frank Wania, Tracing uptake of gaseous elemental Hg released from artisanal and small-scale gold mining into trees and soils of the Peruvian Amazon using mercury stable isotopes, Goldschmidt July 2023, Lyon, France, oral presentation.
- 2022 Dec., Bridget A. Bergquist, Natalie Szponar*(PHD student), Krystal Nason*(PHD student), David McLagan, Jacqueline R Gerson, Luis Fernandez, Claudia Vega, Emily Bernhardt, Carl Mitchell and Frank Wania, Tracing uptake of gaseous elemental Hg released from artisanal and small-scale gold mining into trees and soils of the Peruvian Amazon using mercury stable isotopes, AGU Fall Meeting, Chicago, USA, oral presentation.
- 2022 Nov., Bridget A. Bergquist, Tracing ASGM Derived Gaseous Elemental Hg (GEM) from air to soils using Hg stable isotopes, HgAmazonia Meeting, Expert Workshop on Mercury Research Priorities in the Amazon Region, co-workshop by UNESCO International Geoscience Program and MercuRed, oral presentation.
- 2022 Nov., Krystal Nason*(PHD student), Sources of Mercury to River Sediments Using Mercury Isotopes, HgAmazonia Meeting, Expert Workshop on Mercury Research Priorities in the Amazon Region, co-workshop by UNESCO International Geoscience Program and MercuRed, oral presentation.
- 2022 July, Szponar, N.*(PHD student), Vega,C., Gerson, J.R., McLagan, D.S., Pillaca, M., Antoni, S., Bernhardt, E.S., Kiefer, A., Mitchell, C., Wania, F., Fernandez, L.E., and Bergquist, B.A., Mercury in Artisanal Gold Mining, 15th International Conference on Mercury as a Global Pollutant, online – oral.
- 2022 July, Krystal Nason*(PHD student), N. Szponar*(PHD student), C.M. Vega, J. Gerson, E. Berhardt, M. Moreno-Brush, L.E. Fernandez, and B.A. Bergquist, Identifying Sources of

Mercury in Peruvian Amazon Aquatic Systems using Mercury Stable Isotopes, 15th International Conference on Mercury as a Global Pollutant, poster.

- 2022, May, Krystal Nason*(PHD student), N. Szponar*(PHD student), C.M. Vega, J. Gerson, E. Berhardt, M. Moreno-Brush, L.E. Fernandez, and B.A. Bergquist, Identifying Sources of Mercury in Peruvian Amazon Aquatic Systems using Mercury Stable Isotopes, GAC-MAC, Halifax, poster.
- 2021, Feb. N. Szponar*(PHD student), Su, Y., Stupple, G., D. McLagan, C. Mitchell, F. Wania, Steffen, A., and B.A. Bergquist, Tracing Atmospheric Mercury through Passive Air Sampling and Isotopes, invited online seminar at Environment Canada and Climate Change.
- 2020, Oct. N. Szponar*(PHD student), C. Vega, D. McLagan, M. Pillaca, J. Gerson, E. Berhardt, C. Mitchell, F. Wania, L.E. Fernandez, and B.A. Bergquist, Tracing Atmospheric Mercury in the Peruvian Amazon using Hg Isotopes, Simposio Interamericano sobre Mercurio (SIN MERCURIO), Peru, invited online oral presentation.
- 2020 June, N. Szponar*(PHD student), C. Vega, D. McLagan, J. Gerson, E. Berhardt, C. Mitchell, F. Wania, L.E. Fernandez, and B.A. Bergquist, Tracing Atmospheric Mercury in the Peruvian Amazon using Hg Isotopes, Goldschmidt June 2020 (online) – accepted for online oral presentation.
- 2020 June, K. Nason*(MSc student), N. Szponar*(PHD student), C. Vega, J. Gerson, D. McLagan, E. Berhardt, L.E. Fernandez, and B.A. Bergquist, Identifying Sources of Mercury in Peruvian Amazon Aquatic Systems using Hg Stable Isotopes, Goldschmidt June 2020 (online) – abstract submitted for poster presentation – not presented.
- 2020 June, Bergquist, B.A., J. De Vera*(PHD student), P. Chandan*(PHD student), P. Pinedo-Gonzalez, S. John, S. Jackson, J. Cullen, W. Landing, A. Steffen, Tracing the Sources of Lead in the Canadian Arctic from the Atmosphere to the Ocean, Goldschmidt June 2020 (online) –oral presentation.
- 2020 Feb, Natalie Szponar, *(PHD student), Atmospheric mercury and mercury isotopes from ASGM activity in the Madres de Dios region, Peru, Workshop on Mercury Research Priorities in the Amazon Region, Wake Forest University, North Carolina, USA, invited oral presentation.
- 2019 Sept., Szponar, N.*(PhD student), Wu, Y., Stupple, G., Steffan, A., Mitchell, C., Wania, F., Bergquist, B., Tracking Atmospheric Sources of Mercury through Passive Air Sampling and Isotopic Fingerprinting, 14th International Conference on Mercury as a Global Pollutant, Krakow, Poland – oral.
- 2019 Sept., Szponar, N.*(PhD student), Vega, C., McLagan, D., Pillaca, M., Gerson, J., Berhardt, E., Mitchell, C., Wania, F., Fernandez, L., Bergquist, B., Atmospheric Mercury and Mercury Isotopes from ASGM activity in the Madres de Dios, Region, Peru, 14th International Conference on Mercury as a Global Pollutant, Krakow, Poland – poster.
- 2019 Sept., Rahman, N.*(PhD student), Bhavsar, S., Griffiths, R., Abernethy, S., Chandan, P.*(PhD student), Bergquist, B. Tracing mercury sources in contaminated freshwater sediments and biota using mercury isotopes: St. Clair River Area of Concern, 14th International Conference on Mercury as a Global Pollutant, Krakow, Poland – oral.
- 2019 Sept., Bergquist, B.A., Chandan, P., Zheng, W., Lee, M., Mitchell, C., Slater, G.F. Mercury Mass-Independent Fractionation in Freshwater Plankton and Aquatic Systems, 14th International Conference on Mercury as a Global Pollutant, Krakow, Poland – oral.

- 2019, De Vera, Joan*(PhD student), Chandan, P.*(PhD student), Pineda-Gomez, P., John, S., Cullen, J., Bergquist, B.A., What can we learn about the Arctic from Pb isotopes in seawater? 18th Annual Advances in Earth Sciences Research Conference, March 2019, Toronto, ON – oral.
- 2019, Rahman, N.*(PhD student), Bhavsar, S., Chandan, P.*(PhD student), Griffiths, R., Abernethy, S., Tracing mercury sources in contaminated freshwater sediments and biota using mercury isotopes: St. Clair River Area of Concern, 18th Annual Advances in Earth Sciences Research Conference, March 2019, Toronto, ON – oral.
- 2019, Szponar, N.*(PhD student), Wu, Y., Stupple, G., Steffan, A., Mitchell, C., Wania, F., Bergquist, B., Tracking Atmospheric Sources of Mercury through Passive Air Sampling and Isotopic Fingerprinting, 18th Annual Advances in Earth Sciences Research Conference, March 2019, Toronto, ON – oral.
- 2018, De Vera, J.*(PhD student), Chandan, P.*(PhD student), Pineda-Gomez, P., John, S., Cullen, J., and Bergquist, B.A., Dissolved lead (Pb) isotopes as water and particle tracers in the Arctic Ocean, Ocean Sciences, Portland, OR. - poster
- 2018, Colombo, M., Brown, K., De Vera, J.*(PhD student), Bergquist, B.A., Orians, K.J., Trace Metal Geochemistry of Remote Rivers in the Canadian Arctic Archipelago, Ocean Sciences, Portland, OR. - poster
- 2017, Bridget A. Bergquist, David McLagan, Natalie Spoznar, Robert Kaplan, Priyanka Chandan, Geoff Stupple, Laura Zimmerman, Frank Wania, Carl Mitchell, Alexandra Steffen, Fabrizio Monaci, Louis Derry, Passive sampling for the isotopic fingerprinting of atmospheric mercury, AGU 2017, New Orleans, LA. - poster
- 2017, Thibodeau, A.M. *(Postdoc), Bergquist, B.A., Corsetti, F.A., Yager, J.A., West, J.A., Bottjer, D.J., Berelso, W.M., Kah, L.C., Hazen, R.M., Ono, S. Hg isotopes as tracers of depositional environments in marine sediments from the Precambrian to the Phanerozoic. Geological Society of America, Seattle, United States. - oral
- 2017, Corsetti, F., Yager, J., Ritterbush, K.A., Ibarra, Y., Thibodeau, A.M. *(Postdoc), Bergquist, B.A., West, J.A., Bottjer, D.J., Berelson, W.M., Rosas, S. Timing and alternative ecosystem states following the end-Triassic mass extinction (Nevada, Peru, England): Insights from Hg anomalies and their relationship to the Central Atlantic Magmatic Province. Geological Society of America 2017, Seattle, United States. – oral
- 2017, Marshall, B; Veiga, M.; Kaplan, R., Adler Miserendino, R. *(PhD), Schudel, G. *(MSc), Bergquist, B.A., Guimaraes, J., Gonzalez-Mueller, C.(2017). Fluvial mobility of mercury, cyanide, and other heavy metals in the Puyango-Tumbes River Basin, Ecuador-Peru. 13th International Conference on Mercury as a Global Pollutant, Providence, RI. - oral
- 2017, Thibodeau, A. *(Postdoc), Bergquist, B.A., Corsetti, F., Yager, J., West, A.J., Bottjer, D. The isotopic composition of Hg enriched marine sediments: a geologic perspective. 13th International Conference on Mercury as a Global Pollutant, Providence, RI. – poster
- 2017, McLagan, D., Mitchell, C., Monaci, F., Bergquist, B.A., Huang, H., Lei, Y., Kaplan, R. Hung, H. Steffern, A., Wania, F. Monitoring Gaseous Mercury with a Precise, Accurate and Inexpensive Passive Sampler. 13th International Conference on Mercury as a Global Pollutant, Providence, RI. - oral
- 2017, July, Bridget A. Bergquist, Robert Kaplan, David McLagan, Priyanka Chandan, Frank Wania, Carl Mitchell, Alexandra Steffen³, Laura Zimmerman, Tracy Wang, Fabrizio Monaci, Geoff Stupple, Louis Derry. The Feasibility of Passive Sampling for Isotopic Fingerprinting of

Atmospheric Gaseous Mercury, oral presentation at the 13th International Conference on Mercury as a Global Pollutant, Providence, RI. - oral

- 2017, July, Priyanka Chandan (PhD student), Bridget A. Bergquist, Alexandra Steffen, Geoff Stupple, William Landing, Wang Zheng, Joan De Vera, David McLagan, Carl Mitchell, Frank Wania. Stable mercury isotope fractionation in aerosols and snow in the Arctic, oral presentation at the 13th International Conference on Mercury as a Global Pollutant, Providence, RI. - oral
- 2017, June, Joan De Vera (PhD student), P. Chandan, A. Steffen, W. Landing, and B. Bergquist. Role of aerosols in understanding movement of contaminants in the Arctic, oral presentation at the 100th Canadian Chemistry Conference and Exhibition, Toronto, ON.
- 2017, June, Priyanka Chandan (PhD student), Bridget A. Bergquist, Alexandra Steffen, Geoff Stupple, William Landing, Wang Zheng, Joan De Vera. Stable mercury isotope fractionation in aerosols and snow in the Arctic, oral presentation at the 100th Canadian Chemistry Conference and Exhibition, Toronto, ON.
- 2016, July, De Vera, J. (PhD Student), Chandan. P., Steffen, A., Landing, W., Bergquist, B.A., Role of aerosols in understanding movement of metals and contaminants in the Arctic, poster presentation at the Connaught Summer Institute in Arctic Science: Atmosphere, Cryosphere, and Climate summer training program, Alliston, Ontario.
- 2016, June, Bergquist, B.A., Chandan, P., Slater, G.S., Mercury mass independent fractionation in plankton and freshwater aquatic systems, oral presentation at Goldschmidt, Yokohama, Japan.
- 2015, Aug. 5. Bergquist, B.A., Exploiting stable Hg isotopes to differentiate between Hg Sources: Gold mining vs. land use change, International Network of Environmental Forensic Conference, Toronto, Canada.
- 2015, May. Cheyne, C.A.L. (Masters student), Thibodeau, A.M. (Postdoc), Slater, G.F., Desrocher, S., Sherwood Lollar, B., Bergquist, B.A. (supervising author). Lead Isotopes as Tracers of Particulate Contamination in Lakes. Oral presentation at Ministry of the Environment Calibration and Validation Group Workshop, Toronto.
- 2014, June. Zheng W. (Postdoc), Bergquist, B.A. (supervising author), Xie Z.Q., Mercury isotopes record historical penguin population and climate changes in Ross Sea, Antarctica. Poster at Goldschmidt, Sacramento, CA.
- 2014, June. Zheng W. (Postdoc), Bergquist, B.A. (supervising author), Weis D. and Obrist D., Mercury isotope compositions in North American forest soils and litters. Oral presentation at Goldschmidt, Sacramento, CA.
- 2014, June, Chandan P. (PhD student), Bergquist, B.A. (supervising author), Fisher N, Baumann Z & Madigan D, Stable Hg Isotope Study of Methylmercury Sources in Pacific and Atlantic Ocean. Oral presentation at Goldschmidt, Sacramento, CA.
- 2014, June. Cheyne, C.A.L. (PhD student), Thibodeau, A.M. (Postdoc), Slater, G.F., Desrocher, S., Sherwood Lollar, B., Bergquist, B.A. (supervising author). Lead Isotopes as Tracers of Particulate Contamination in Lakes. Poster, Goldschmidt 2014, Sacramento, CA.
- 2014, June. Martini A, Thibodeau A. (Postdoc), Bergquist, B.A., Woodruff, J., Yellen, B., Owrang, S., Varekamp, J. Mercury Inventories and Isotopic Signatures in Sediments from the Floodplain of the Connecticut River. Poster at Goldschmidt, Sacramento, CA.
- 2014, May. Kaiser, J.; Angert, A.; Bergquist, B.; Brand, W.; Ono, S.; Röckmann, T.; Savarino, J., Progress update on IUPAC Project 2009-046-2-200: Terminology and definition of quantities related to the isotope distribution in elements with more than two stable isotopes, EGU General Assembly 2014, Vienna, Austria.

- 2014, February, Chandan P. (PhD student), Bergquist, B.A. (supervising author), Fisher N, Baumann Z & Madigan D, Stable Hg Isotope Study of Methylmercury Sources in Pacific and Atlantic Ocean. Oral presentation, Gananoque Environmental Sciences and Engineering Conference 2014, Gananoque, ON.
- 2014, February, Cheyne, C.A.L. (Masters student), Thibodeau, A.M. (Postdoc), Slater, G.F., Desrocher, S., Sherwood Lollar, B., Bergquist, B.A. (supervising author). Using Lead to Trace Anthropogenic Contaminant Sources in Two Ontario Lakes. Oral presentation, Gananoque Environmental Sciences and Engineering Conference 2014, Gananoque, ON.
- 2013, Alyson Thibodeau (postdoc), Bergquist, B.A. (supervising author), L. Kah, S., Ghosh, S (postdoc). Ono, R. Hazen. Mass Independent Fractionation of Hg Isotopes Preserved in the Precambrian, Oral Presentation, AGU Fall Meeting, San Francisco, CA.
- 2013, Wang Zheng (postdoc), D. Obrist, Bergquist, B.A. (supervising author). Mercury isotope compositions in North American forest soils and litters, Poster Presentation, AGU Fall Meeting, San Francisco, CA.
- 2013, Alyson Thibodeau (postdoc), Bergquist, B.A. (supervising author), L. Kah, S., Ghosh, S (postdoc). Ono, R. Hazen. Mass Independent Fractionation of Hg Isotopes Preserved in the Precambrian, Oral Presentation, GSA, Denver, CO.
- 2013, Rebecca Adler Miserendino (PhD), J.R.D. Guimarães, M. Veiga, P.C. Velasquez-López, P.S.J. Lees, Bergquist, B.A. (supervising author). Exploiting Stable Mercury Isotopic Analysis to Differentiate between Mercury Sources: Artisanal and Small-Scale Gold Mining vs. Land-Cover and Land-Use Change in Amazonian and Andean Aquatic Ecosystems, Oral Presentation, 11th International Conference on Mercury as a Global Pollutant, Edinburgh, Scotland
- 2013, Rebecca Adler Miserendino (PhD student), M. Veiga, J.R.D. Guimarães, P.C. Velasquez-López, P.S.J. Lees, Bergquist, B.A. (supervising author). Transboundary Water Pollution in Ecuador and Peru: Geochemical Monitoring of Mercury and Other Metals Downstream of Artisanal and Small-Scale Gold Mining in the Puyango-Tumbes Watershed, Poster Presentation, 11th International Conference on Mercury as a Global Pollutant, Edinburgh, Scotland
- 2012, Chandan, P. (Masters student), Ghosh, S. (Postdoc), Bergquist, B.A. (supervising author). Mercury isotopic fractionation during photodemethylation in aqueous systems. Oral Presentation, Goldschmidt Conference, Montreal, Canada
- 2012, Bergquist, B.A., Ghosh, S. (Postdoc), Ono, S., Hazen, R., et al. Mercury isotopes in the Precambrian. Oral Presentation, Goldschmidt Conference, Montreal, Canada
- 2012, April, Kaiser, J.; Angert, A.; Bergquist, B.; Brand, W.; Ono, S.; Röckmann, T.; Savarino, J., IUPAC Project: Terminology and definition of quantities related to the isotope distribution in elements with more than two stable isotopes. EGU General Assembly, Vienna, Austria.
- 2011, Bergquist, B.A., Ghosh, S., Chandan, P., Rose, C., Blum, J.D. The exploration of the signatures of mass-independent fractionation of mercury. Oral Presentation, 10th International Conference on Mercury as a Global Pollutant, Halifax, Canada.
- 2011, Adler, R. (PhD student), Silbergeld, E., Davée Guimarães, J.R., Ghosh, S. (Postdoc), Bergquist, B.A. (supervising author) Application of stable mercury isotopic analysis to trace pollution from artisanal small scale gold mining in an aquatic ecosystem of Amapá, Brazil. Oral Presentation, 10th International Conference on Mercury as a Global Pollutant, Halifax, Canada
- 2010, Adler, R. (PhD student), Silbergeld, E., Davée Guimarães, J.R., Ghosh, S. (Postdoc), Bergquist, B.A. (supervising author), Isotope tracing Hg pollution from small scale artisanal gold

- mining in an aquatic ecosystem of Macapá, Amapá, Brazil, Poster presentation, AGU Fall Meeting, San Francisco, CA.
- 2009, Ghosh, S. (Postdoc), Bergquist, B.A. (supervising author), Blum, J.D. Fractionation of mercury isotopes by photo-oxidation in aquatic systems. Oral presentation, AGU Fall Meeting, San Francisco, CA.
 - 2009, Rose, C. (Masters Student), Bergquist, B.A. (supervising author), Blum, J.D. Mass-independent fractionation of mercury isotopes during photochemical reduction in freshwater systems. Poster presentation, AGU Fall Meeting, San Francisco, CA.
 - 2009, Bergquist, B.A., Ghosh, S., Lacrampe-Couloume, G., Schauble, E.A., Blum, J.D. Estimation of nuclear volume dependent fractionation of mercury isotopes. Poster presentation, AGU Fall Meeting, San Francisco, CA.
 - 2009, Bergquist, B.A., Blum, J.D. The odds and evens of mercury isotopes, SETAC meeting, New Orleans, LA.
 - 2009, Ghosh, S. (Postdoc), Bergquist, B.A. (supervising author), Lacrampe-Couloume, G., Schauble, E.A., Blum, J.D. Estimation of nuclear volume dependent fractionation of mercury isotopes. Poster presentation, 2009 Joint Assembly, Toronto, ON.
 - 2007, Bergquist, B.A. Reporting and measurement of mass-dependent and mass-independent fractionation of Hg isotopes. Invited oral presentation, AGU Fall Meeting, San Francisco, CA.
 - 2007, Bergquist, B.A., J.D. Blum. Mass-dependent and mass independent fractionation of Hg isotopes by photo-reduction in aquatic systems. Oral presentation. Goldschmidt Meeting, Cologne, Germany.
 - 2007, Blum, J.D., Bergquist, B.A. Reporting and measurement of mercury isotopic variability. Oral presentation. Goldschmidt Meeting, Cologne, Germany.
 - 2007, Biswas, A., Blum, J.D., Bergquist, B.A. Variation in natural mercury isotopic ratios of coal formations. Poster presentation. Goldschmidt Meeting, Cologne, Germany.
 - 2007, Bergquist, B.A., J.D. Blum. Mass-dependent and mass independent fractionation of Hg isotopes by photo-reduction in aquatic systems. Poster presentation. Chemical Oceanography Gordon Conference, Tilton, NH.
 - 2006, Bergquist, B.A., Blum, J.D., Johnson, M.W., Biswas, A. Experimental investigation of mass-dependent and mass-independent fractionation of mercury isotopes. AGU Fall Meeting, San Francisco, CA.
 - 2006, Bergquist, B.A., Wu, J., Boyle, E.A. Soluble and Colloidal Fe in the subtropical and tropical Atlantic Ocean. Oral presentation. AGU Ocean Science Meeting, Honolulu, Hawaii.
 - 2006, John, S.G. Bergquist, B.A., Saito, M., Boyle, E.A. The Marine Cycling of Zn Isotopes. Oral presentation. AGU Ocean Science Meeting, Honolulu, Hawaii.
 - 2005, Boyle, E.A., Bergquist, B.A., John, S.J. Evaluating Fe and Zn isotopes as tracers in the marine system. Oral Presentation. AGU Fall Meeting, San Francisco, CA.
 - 2005, Bergquist, B.A., Boyle, E.A. Iron Isotopes in the Marine System. Oral presentation. Goldschmidt Meeting, Moscow, ID.
 - 2004, Bergquist, B.A., Boyle, E.A. Iron Isotopes in the Marine System. Oral presentation. AGU Ocean Science Meeting, Portland, OR.
 - 2003, Bergquist, B.A., Boyle, E.A. Geochemistry of Iron Isotopes: Preliminary Results. Poster presentation, Gordon Conference in Chemical Oceanography, Tilton, NH.
 - 2003, Boyle, E.A., Bergquist, B.A., Kayser, R.A., Wu, J. Iron, Manganese, and Lead at Hawaii Ocean Time Series Station ALOHA: Temporal Variability and an Intermediate Water

Hydrothermal Plume. Poster presentation, Gordon Conference in Chemical Oceanography, Tilton, NH.

- 2003, Bergquist, B.A., Boyle, E.A., Wu, J., Chen, Y., Siefert, R. Iron Distribution and Dissolution in the Euphotic Zone of the Subtropical North Atlantic and North Pacific. Oral Presentation, American Society of Limnology and Oceanography Meeting, Salt Lake City, UT.
- 2002, Bergquist, B.A., Boyle, E.A. Iron Isotopic Composition of the Amazon River. Poster presentation, American Geophysical Union (AGU) Fall Meeting, San Francisco, CA.
- 2002, Bergquist, B.A., Boyle, E.A., Grant, B. Iron Isotopic Composition of Marine Samples: Preliminary Results. Poster presentation, AGU/American Society of Limnology and Oceanography Ocean Sciences Meeting, Honolulu, HI.
- 1999, Bergquist, B.A., Marchetti, A.A., Matinelli, R.E., McAninch, J.E., Nimz, G. Detection of Tc-99 in Natural Arid Soils by Accelerator Mass Spectrometry. Oral presentation, 8th International Conference for Accelerator Mass Spectrometry, Vienna, Austria.
- 1994, Bergquist, B.A. A Tracer Study of Water Movement through Soil. Poster Presentation at Los Alamos National Laboratory, NM.

LIST OF COURSES:

UNDERGRADUATE COURSES TAUGHT

- GLG202H1: Introduction to Geochemistry
 - Fall 2008, 2009, 2011, 2012
- ESS205H1: Confronting Global Change
 - Spring 2010, 2011, 2012, 2013, 2015, 2016, 2018
- ENV233: Earth System Chemistry
 - Spring 2014, 2015
- XBC199Y: Life and Death in the Solar System
 - Spring 2015
- ESS362: Introduction to Oceanography
 - Spring 2016, 2018, 2019, 2020, 2026
- ESS311: Aqueous Geochemistry
 - Fall 2018, 2019, 2020, 2021, 2022, 2024
- ESS199: Earth, Portrait of a Planet
 - Spring 2021
- JEG100: Introduction to Physical Geography and Earth Sciences
 - Spring 2022, 2023
- ESS313: Contaminants, the Environment and Geoethics
 - Winter 2025
- ESS223: Introduction to Geochemistry
 - Fall 2025

GRADUATE COURSES TAUGHT

- GLG2704: Isotope Geochemistry
 - Spring 2012, 2013, 2014, 2015, 2017, 2018, 2020
- GLG2304: Geochemistry
 - Fall 2024

STUDENTS SUPERVISED

- Masters Students

- Haoran Chen, June 2025 to Sept. 2026, Mercury Divergence in Arctic Lakes - Insights from Hg Stable Isotopes in East and West Lake.
- Synah Saeedi-Tabir, Fall 2023 to Sept 2024, Assessing sources of Hg to high Arctic permafrost soils and vegetation using mercury stable isotopes
- Brianna Barnhart, Fall 2022 to Dec 2023, Assessing sources of Hg to Arctic and sub-Arctic permafrost soils using mercury stable isotopes.
- Domenica Lee, Fall 2020-Sept. 2021, Understanding the seasonal sources and chemistry of atmospheric Hg in the Arctic.
- Krystal Nason, Fall 2019-Dec.2020, Tracing ASGM Hg in aquatic ecosystems in the Peruvian Amazon.
- Carol Cheyne, Fall 2013-Summer 2015: Lead isotopes as a tracer of atmospheric particulate contamination and as a chorostratigraphy tool (primary/co- supervisor)
- Gary Schudle, Fall 2013-Fall 2014: Mercury isotopes as a tracer of gold mining and industrial pollution (primary supervisor)
- Priyanka Chanden, Fall 2009-Fall 2011: Mercury isotopic fractionation during aqueous photochemical reduction of methylmercury (primary supervisor)
- Carla Rose, Fall 2008-Summer 2010: Mercury isotopic fractionation during photochemical reduction of mercury: role of frequency and amount of sunlight. (primary supervisor)
- Doctoral Students
 - Brianna Barnhart, Fall 2024 to present: Assessing and understanding metal contamination through collaborative science with Indigenous First Nations and communities.
 - Krystal Nason, Sept. 2020 to present: Tracing ASGM Hg in aquatic ecosystems in the Peruvian Amazon.
 - Nabila Rahman, Sept. 2017 to May 2023: Tracing Hg pollution in aquatic ecosystems and food webs.
 - Natalie Szponar, Jan. 2017 to Feb. 2022: Tracking Atmospheric Hg using Hg isotopes.
 - Joan De Vera, Sept. 2014-Nov. 2019: Tracing the Distribution of Pb and Trace Elements in the Canadian Arctic from the Atmosphere to the Ocean (primary supervisor).
 - Priyanka Chanden, Jan 2012-June 2018: Using Hg isotope to understand Hg transformations and bioaccumulation in the marine system (primary supervisor)
 - Rebecca Adler Miserendino, Spring 2009-2012: Isotope tracing Hg pollution from small scale artisanal gold mining in an aquatic ecosystems (primamry/co-supervisor)
- Postdoctoral Fellows
 - Scott McCain, March 2026 to present, Understanding and modelling microbial use of H₂ in the deep subsurface. Co-supervised with B. Sherwood Lollar
 - Katrina MacSween, July 2024 to present: Hg fluxes to and from soils in the high Arctic. Co-supervised with Carl Mitchell.
 - Wang Zheng, June 2012 – Nov. 2014: Hg and Si isotopes in soils (primary supervisor)
 - Alyson Thibodeau, Oct. 2012 - 2014 (primary/co-supervisor)
 - Rebecca Adler-Miserendino, Jan 2013-May 2013 (primary supervisor)
 - Sanghamitra Ghosh, July 2008-Feb 2012: Controls over mass-independent fractionation of mercury isotopes - nuclear-volume, photo-oxidation, Archean proxy applications. (primary supervisor).
- Visiting Students:

- Angel Augusto Verbal-Olarte, Summer 2023-April 2024 – Doctoral student at University of Brasilia, Research Project: Tracing gold in the Brazilian Amazon. In my lab, he is exploring the use mercury isotopes.
- Chunmei Ran, Oct. 2023 to Oct. 2024, Doctorate student at Nankai University, College of Environmental Science and Engineering. Research Project: Assessing the sources, cycling and bioavailability of mercury and cadmium in soils using metal stable isotopes.
- Siyu Wang, June 2023 to April 2023, Doctorate student at the University of Chinese Academy of Sciences, Institute of Geographic Sciences and Natural Resources. Research Project: Tracing of metals in aerosols in an urban environment using Pb, Cu and Zn isotopes.
- Thiago Figueiredo, Oct. 2017-Feb. 2018, Fluminense Federal University (Universidade Federal Fluminense - UFF) - Graduate Program in Environmental Geochemistry, Brazil.
- Undergraduates advised:
 - Sughan Karunakaran, May 2026 to present, USRA
 - Shadman Irtiza, May 2026 to present
 - Daisy Zou, Sept. 2025 to April 2026, Senior Thesis: Assessing How Mercury Deposition Has Changed Across Arctic Lakes with Different Permafrost Conditions
 - Genevieve Russett, May 2025 to August 2025, Summer CGCS: Mercury in Canadian Low Arctic Active-Layer Soils
 - Andrew Hicks, May 2025 to April 2026, Summer and Senior Thesis: Mercury Cycling Dynamics in Biota of Two Arctic Lakes Affected by Permafrost Thaw
 - Noa Sabatini, May 2024 to Aug 2024, Co-supervised with Barbara Sherwood Lollar, she helped analyze soils for mercury concentrations and organize sample inventories.
 - Alisa Loboda, May 2024 to Aug 2024, ASIP intern, Exploring methods for separation of methylmercury and inorganic mercury in natural samples.
 - Laura DiNunzio, May 2023 to May 2024, Summer NSERC USRA Fellowship and Senior Thesis Student – Mercury and mercury isotopes in soils from the Peruvian Amazon and Mercury and mercury isotopes in bird feathers from the Peruvian Amazon.
 - Kathryn Cheng, May 2022 to April 2023, Summer CGCS Fellowship and Senior Thesis Student - Mercury in Hawaiian Soils; Senior Thesis – Assessing the use of Hg and Hg isotopes over the Cambrian SPICE event.
 - Fannie Yiu, May 2022 to May 2023, Summer NSERC USRA Fellowship and Senior Thesis Student - Mercury uptake and isotopic fractionation in vegetation and Atmospheric Hg isotopes in the oil sands region of Alberta.
 - ***gap in 2020-2022 due to Covid-19 Pandemic. To optimize lab opening and functioning for graduate students, no undergrad research projects or theses were taken on during strict reduced personal lab operating procedures.
 - Nathaniel Spicer: Sept. 2019-Apr. 2019, senior thesis: Mercury uptake by plants
 - Dominica Lee: May 2019-Aug. 2020, summer researcher and senior thesis, seasonal cycles in Hg and Hg isotopes in the high Arctic
 - Colleen Metcalf: May 2018 to Aug. 2018, summer USRA: Atmospheric mercury concentrations and isotope compositions in plants and the atmosphere.
 - Mengxi Wang, May 2017 to Aug. 2017: Atmospheric mercury concentrations and isotope ratios across Ontario, summer USRA Fellow
 - Tsz Kai Jeffrey Chan, May 2017 to Aug. 2017: Mercury isotopes across Ocean Anoxic Event 2, summer undergraduate research funded through MAGNET CREATE

- Mengxi Wang, Sept. 2016 to April 2017: Atmospheric Mercury Concentrations and Isotope Ratios Downwind from Mt. Kilauea, Hawaii, as Determined via Passive Air Sampling, senior thesis
- Tsz Kai Jeffrey Chan, Sept. 2016 to April 2017: Mercury concentrations across Ocean Anoxic Event 2, senior thesis
- Laura Zimmerman, May 2016 to Aug. 2016: Mercury isotopes in the rock record, summer USRA Fellow
- Michelle Lee, May 2016 to Aug. 2016: Mercury isotopes in freshwater plankton, Summer CGCS Fellow
- Michelle Lee, Jan 2016-April 2016: Mercury in freshwater plankton, ½ year senior thesis.
- Laura Zimmerman, May 2015-Aug. 2015, Mercury isotopes in Hawaiian soils, summer CGCS Fellow.
- Michelle Lee, May 2015 to Aug. 2015: Mercury in lake sediments as a tracer of atmospheric deposition, ESS391S, Summer USRA
- Carly Pellow, May 2014-Aug. 2014: Mercury isotopic fractionation during aqueous photo-reduction in seawater matrices, CGCS Fellow
- Emily Moffat, May 2014-Aug. 2014: Mercury and Hg isotopes in lake plankton, USRA
- Carol Cheyne, Summer: Lead isotopes as a tracer of atmospheric particulate contamination and as a chorostratigraphy tool, CGCS Fellow
- Sean Winland-Gaetz, May 2012 to August 2013: Preferential and Bulk Remobilization of Historically-Deposited Trace Metal Pollution: The Impact of Local Land-Use Change in Amazonian Soils – USRA, Senior Thesis (EEB)
- Athraa Koma, Sept. 2012 to April 2013: Factors and sources controlling Hg contamination in lake sediments in Southern Ontario – Senior Thesis
- Liviu Parpalea, Summer 2010 to Dec 2011: Lead isotopic signatures of atmospheric deposition in southern Ontario (primary supervisor) – Senior Thesis
- Priyanka Chanden, Summer 2009: Aqueous and soil photo-reduction of mercury (method development)
- Amandip Singh, Summer 2009: Mercury and Hg isotopic signatures in lichen
- Carla Rose, Summer 2008: Aqueous photo-reduction of mercury (method development), USRA

ADDITIONAL TEACHING AND OUTREACH

- Oct 22&23, 2025, Participated in the annual River Symposium hosted by the River Institute in Cornwall, Ontario, which brings together researchers, educators, students, environmental professionals, policymakers, and members of the public to connect and share knowledge in support of freshwater ecosystem conservation and sustainable resource management.
- June 2020, Guest for Earth News Interviews podcast at University of Toronto (earthnewsinterviews.podbean.com), June 28, 2020 episode “Gold Mining Contaminants with Bridget Bergquist”.
- Fall 2019, Guest speaker at Garden Ave Junior Public School talking about geology and mining to 4th graders.
- Feb. 2017: Panel speaker in the All that Glitters: Gold Mining, Mercury Pollution and ASGM Communities for the UTSC International Development Conference
- Jan. 2017: Guest, Podcast “In the Dark with Jason Bryden”, Ep. 39, More on long term climate change.

- Dec. 2016: Guest, Podcast “In the Dark with Jason Bryden”, Ep. 37, Humanity is doomed but the Earth will be fine.
- Oct. 2011: Girls Rock Science workshop at the University of Toronto, Metals in the environment: the good and the bad.
- March 2011: Lecture for undergraduate and graduate female students: Perceptions of women in science: the role of unconscious bias, WISE workshop, McMaster University, Hamilton, ON
- August 2010: Lecturer in the Marie Curie Network INTRAMIF Workshop, School of Environmental Sciences, University of East Anglia, Norwich, England. Workshop was given for 14 international PhD students working on MIF.
- April 2009, Talk to non-academics, Natural Philosophers group, Toronto, ON
- Oct. 2008, Jan. 2010, Oct. 2011: Girls Rock Science lecture for high school students: Metals in the environment: the good and the bad.
- April 2008, My experiences as a women in science. Florida State University, Tallahassee.
- Feb. 2008: Teacher workshop for high school teachers, Dept. of Geology, University of Toronto: New tracers of metals in the environment.
- Fall 2007, 2008: Guest lecturer in an Environmental Isotope Geochemistry undergraduate course at McMaster University, Hamilton, ON.
- Academic year 2007-2008: co-run a seminar series at University of Michigan for graduate students on mercury in the environment.

ADMINISTRATIVE POSITIONS:

WITHIN UNIVERSITY OF TORONTO

- Department and Arts and Science Committees:
 - Interim Chair, 1.5 weeks
 - Earth Science Chair search committee
 - Earth Science Undergraduate Affairs committee, 2025-2026
 - Earth Science Analytical Committee, 2025-2026 (helping develop and post 2 job ads for analytical staff)
 - Earth Science CERC development committee, search committee, and team member of the CERC application with Richard Taylor, 2025
 - Hiring committee (until final round), Field and Lab Coordinator, UofT Earth Sciences, Fall 2025
 - CLTA Search Committee, UofT Earth Sciences, Winter/Spring 2024
 - Faculty Search Committee, UofT Earth Sciences, Near Surface Geophysics, Winter/Spring 2023
 - Faculty Search Committee, UofT Earth Sciences, Mineral Systems, Winter/Spring 2023
 - Coordinator for spending undergraduate classroom and equipment revitalization funds (700k), 2022-23
 - Hiring committee chair, Field and Lab Coordinator, UofT Earth Sciences
 - Co-writer, Department Review, 2020/2021
 - Department Associate Undergraduate Chair, July 2020 to present
 - Deane Postdoctoral Committee, 2011 on and off to present
 - Faculty Search Committee, UofT Earth Sciences Igneous Petrology, Winter/Spring 2020
 - Hiring committee, IT specialist, UofT Earth Sciences

- Co-organizer Earth Sciences Faculty Retreat, April 2018
- Faculty Search Committee, UTSC Global Biogeochemical Cycles, Winter/Spring 2019
- Analytical Facilities Committee Chair: 2018 to 2020
- Faculty Search Committee, UofT Earth Sciences Economic Geology, Winter/Spring 2018
- Associate Director Centre for Global Change Science: 2017 to current
- Analytical Facilities Committee: 2015/16
- CAGS/UMI & Leyerle committee, 2015, 2016
- Env. Sci/Earth System Sci. Curriculum Committee, 2012/2013
- Undergraduate Affairs Committee 2011-2016
- Center for Environment Steering Committee: 2011
- Department Graduate Chair Search Committee: Spring 2011
- Department Undergraduate Chair Search Committee: Spring 2011
- Department Safety Committee: 2008-2009, 2009-2010
- Graduate Admissions Committee: 2008-2009, 2009-2010, 2017-2018
- Graduate Thesis Committee/Examiner Roles:
 - 2025-26, Bronwyn Kirby, UTSC MSC program, Sarah Finkelstein, committee
 - 2025-26, Erika Bullen, UTSC, Carl Mitchell, committee member, MSC defense
 - 2025, Sausan Omran, UofT Earth Sciences, Daniel Gregory, MSC defense
 - 2025, Laura DiNunzio, UofT Earth Sciences, Sarah Finkelstein, MSC defense
 - 2025, Jennifer Gordon, PhD committee, Leslie Warren
 - 2023, Shannon Murtonen, UofT Earth Sciences, Corliss Sio, MSC defense
 - 2023, Kai Lui, U of Waterloo, PhD defense external
 - 2023-present Sarah Mount, UofT Earth Sciences, Corliss Sio, committee
 - 2023, Julia Hathaway, UofT Earth Sciences, Sarah Finkelstein, PhD proposal defense examiner
 - 2023-2025, Sarah Gigi, UTSC, Carl Mitchell, committee member
 - 2022, Johanness West, U of Stockholm, Sofi Jonnson, PhD examiner
 - 2022-present, Sayuri Sagisaka, UTSC, Carl Mitchell
 - 2020, Eunji Byun, UofT Earth Sciences, Sarah Finkelstein, PhD thesis examiner
 - 2019-2025, Jose Guballa, UofT Earth Sciences, Jorg Bollman, committee member
 - 2018, Elizabeth Phillips, UofT Earth Sciences, Barbara Sherwood Lollar, committee member
 - 2018, Deepak Chandan, UofT Physics, Dick Peltier, Final PhD Defense
 - 2017, Eunji Byun, UofT Earth Sciences, Sharon Cowling, PhD proposal defense
 - 2016, Rachel Strickman, UTSC, Carl Mitchell
 - 2015-2016: Cheyenne Sica, UofT Earth Sciences, Barbara Sherwood Lollar
 - 2014-2017: David McLagan, UTSC, Carl Mitchell and Frank Wania
 - 2012-2017: Kristine Haynes, UTSC, Carl Mitchell
 - 2010-2015: Lisa Douglas, UofT Earth Sciences, Barbara Sherwood Lollar
 - 2012-2013: Berivan Esen, UofT Earth Sciences, Barbara Sherwood Lollar
 - 2012: UofT Earth Sciences, Martin Head, Jorg Bollman, Final PhD Defense
 - 2011-2012: Christopher Charles, UofT Dept. of Geology, Don Davis
 - 2009-2011: Golnoush Abbasi, UTM, Department of Geography, Brian Branfireun
 - 2008-2012: John Eliades, UofT Dept. of Geology, Donald Davis

OUTSIDE UNIVERSITY OF TORONTO

- Brianna Barnhart and I joined the Cornwall Sediment Strategy Science subcommittee in the Fall 2025 and are now regular participants in the quarterly meetings. We are participating in evaluating plans for monitoring and assessment of the St. Lawrence Area of Concern for the next couple years.
- Member of AMAP (Arctic Monitoring and Assessment Program) Hg isotope working group (2025-present)
- Reviewer for the National Academies of Science, Engineering and Medicine Consensus Study Report on “Assuring Data Quality at the U.S. Geological Survey Laboratories.”
- Member of the Goldschmidt Award Committee for the Geochemical Society (2018-2021)
- Member of the Nominations Committee for the Geochemical Society (2011-2015)
- Elected Representative – MIT-WHOI Joint Program Alumni Advisory Committee (2008-2015)
- Member of the IUPAC group, “Terminology and definition of quantities related to the isotope distribution in elements with more than two stable isotopes” (2011-2018)
- Participant in international program GEOTRACES (current)
- Member of the Program Committee for the Geochemical Society (2009-2012)

OTHER:

FIELD EXPERIENCE:

- Cruises:
- Sept. 2008, 7 days, R/V Atlantic Explorer (Bermuda to Bermuda)
 - Oct./Nov. 2005, 23 days, R/V Melville (Hawaii to San Diego)
 - July 2002, 21 days, R/V KOK (Hawaii to Hawaii)
 - March 2002, 21 days, R/V Endeavor (Barbados to Brazil)
 - June/July 2001, 30 days, R/V Knorr (Spain to Barbados)
 - April 2001, 27 days, R/V Wecoma (Hawaii to Hawaii)
 - Sept. 1999, 20 days, R/V Endeavor (Rhode Island to Azores)

- Field:
- July 2025, Inuvik, NWT, Canada, 3 weeks with 3 students
 - Nov. 2022, Madre de Dios, Peru
 - May 2017, informal lake coring camp for 20 graduate students, Ontario, Canada
 - May 2014, informal lake coring camp for 10 graduate students, Ontario, Canada
 - May 2012, Ecuador gold mining areas
 - April 2002, Amazon River, Brazil
 - 1997, Nevada Test Site, ditch excavation and soil sampling
 - 1996, Geologic field camp in the Wasatch and Uinta Mountain ranges of Utah
 - 1994/5, Los Alamos, NM, well water and soil sampling
 - March 1994, Death Valley, CA, geologic mapping and sample collection
 - June 1992, San Juan River Valley, UT, stratigraphy mapping