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Education

Harvard University, Cambridge, MA
PhD, Department of Earth and Planetary Sciences May 2015
MA, Department of Earth and Planetary Sciences May 2014

The Colorado College, Colorado Springs, CO
BA, Department of Geology Aug. 2006

Teaching and Work Experience

Dartmouth College, Department of Earth Sciences, Hanover, NH
Associate Professor July 2022–present
Assistant Professor Jan. 2016–June 2022

Stanford University, Department of Geological Sciences, Stanford, CA
Agouon Institute Geobiology Postdoctoral Scholar July 2015 - Dec. 2015

Harvard University, Department of Earth and Planetary Sciences, Cambridge, MA
Doctoral Student Sep. 2010 - July 2015

Princeton University, Department of Geosciences, Princeton, NJ
Lab Technician, Field Assistant – Dr. Adam Maloof June. 2007 - Dec. 2007

The Colorado College, Department of Geology, Colorado Springs, CO
Paraprofessional Sept. 2006 - June 2007

Honors and Awards

2022 Karen Wetterhahn Memorial Award for Distinguished Creative or Scholarly Achievement – Dartmouth College
2022 C. Troy Shaver 1969 Fellowship Award – Dartmouth College
2021 Alfred P. Sloan Foundation Earth System Science Fellow
2018 National Geographic Explorer
2018 American Chemical Society Doctoral New Investigator Award
2015 Agouon Institute Geobiology Postdoctoral Fellowship
2015 Geological Society of America Graduate Student Research Grant
2014 Geological Society of America Graduate Student Research Grant
2013 Star Family Prize for Excellence in Undergraduate Advising Nominee – Harvard University
2013 Bok Center Distinction in Teaching Award – Harvard University
2012 GACMAC 2012 Jerome Remick III Poster Award
2012 National Science Foundation Graduate Research Fellowship Recipient
2006 William A. Fischer Special Recognition Geosciences Award – Colorado College
2005 Patricia J. Buster Scholarship for Undergraduate Research – Colorado College
2004 Patricia J. Buster Scholarship for Undergraduate Research – Colorado College

Publications

*Dartmouth Graduate/Postdoc Author **Dartmouth Undergraduate Author ***Joint 1st Author

In Review:

Cantine, M., Orzechowski, E., Stein, N., Lincoln, T., Hibner, B., Present, T., Thorpe, M., **Strauss, J.V.**, Knoll, A.H., Grotzinger, J., Trower, E., Gomes, M., *in review*, Rapid growth of a carbonate island over the last millennium: *Sedimentology*, v. xx, p. xxx–xxx.

*Faehnrich, K., McClelland, W.C., Webb, L., Rasbury, T., Colpron, M., and **Strauss, J.V.**, *in review*, Geochronological constraints on Early Cretaceous strike-slip opening of the Canada Basin, Arctic Ocean: *Tectonics*, v. xx, p. xxx.

Koch, M.M., McClelland, W.C., Gilotti, J.A., Kosminska, K., **Strauss, J.V.**, Faehnrich, K., Beranek, L.P., and Pease, V., *in review*, Early Paleozoic accretion history of the Pearya terrane: new insights from igneous and detrital zircon signatures of the Kulutingwak complex, Ellesmere Island, Nunavut, Canada: *Canadian Journal of Earth Sciences*, v. xx, p. xxx.

2023/In Press:

80. Bazarnik, J., Kósmínska, K., McClelland, W.C., **Strauss, J.V.**, Piepjohn, K., Elvevold, S., Zielinski, G., and Majka, J., *in press*, Metamorphic evolution of the metasedimentary rocks from northern Spitsbergen helps locating the major tectonic boundary in the Caledonides of northern Svalbard: *Journal of Metamorphic Petrology*, v. xx, p. xxx–xxx.

79. *Busch, J.F., Boag, T.H., Sperling, E.A., Rooney, A.D., Feng, X., Moynihan, D.P., and **Strauss, J.V.**, 2023, Integrated litho-, chemo-, and sequence stratigraphy of the Ediacaran Gametrail Formation across a shelf-slope transect in the Wernecke Mountains, Yukon, Canada: *American Journal of Science*, v. 323 (4), p. xxx.

78. Dumoulin, J.A., **Strauss, J.V.**, and Repetski, J.E., *in press*, Ordovician of Alaska, in Percival, I., Harper, D., Lefebvre, B., and Servais, T., eds., Global Synthesis of the Ordovician System II: Geological Society of London Special Papers, v. xxx, p. xxx–xxx.

77. *Faehnrich, K., McClelland, W.C., Webb, L., Kósmínska, K., and **Strauss, J.V.**, *in press*, Late Ediacaran–early Cambrian rifting along the northern margin of Laurentia: Constraints from the Yelverton Formation of Ellesmere Island, Canada: *Canadian Journal of Earth Sciences*, v. xx, p. xxx.

76. McClelland, W.C., **Strauss, J.V.**, Gilotti, J.A., and Colpron, M., 2023, Paleozoic evolution of the northern Laurentian margin: Evaluating links between the Caledonian, Ellesmerian, and Cordilleran orogens, in Whitmeyer, S.J., Williams, M.L., Kellett, D.A., and Tikoff, B., eds., Laurentia: Turning Points in the Evolution of a Continent: Geological Society of America Memoir 220, p. 605–633.

75. Palucis, M.C., Morgan, A.M., **Strauss, J.V.**, Rivera-Hernandez, F., Marshall, J., Menio, E., and **Miller, R., 2023, Rates and processes controlling periglacial alluvial fan formation: Implications for Martian fans: *Geological Society of America Bulletin*, v. 135, no. 3/4, p. 937–954.

74. Roest-Ellis, S., Richardson, J.A., Phillips, B.L., Mehra, A., Webb, S.M., Cohen, P.A., **Strauss, J.V.**, and Tosca, N.J., 2023, Tonian carbonates record phosphate-rich shallow seas: *Geochemistry, Geophysics, Geosystems*, v. 24 (5), e2023GC010974.

73. Stein, N.T., Grotzinger, J.P., Quinn, D.P., Lingappa, U.F., Present, T.M., Trower, E.J., Gomes, M.L., Orzechowski, E., Cantine, M., Metcalfe, K.S., Fischer, W.W., Ehlmann, B.L., **Strauss, J.V.**, and Knoll, A.H., 2023, Geomorphic and environmental controls on microbial mat fabrics on Little Ambergris Cay, Turks and Caicos Islands: *Sedimentology*, v. xx, p. xxx.

72. **Strauss, J.V.**, *Faehnrich, K., McClelland, W.C., Koch, M.M., Crowley, J.L., Melchin, M.J., and Beranek, L.P., 2023, Reply to the Discussion by Hadlari on “Age and significance of the Fire Bay Formation: An Ordovician arc fragment within the Clements Markham belt, northwest Ellesmere Island”: *Canadian Journal of Earth Sciences*, v. xx, p. xxx.

71. *Zhang, T., Keller, C.B., Hoggard, M.J., Rooney, A.D., Halverson, G.P., Bergmann, K.D., Crowley, J.L., and **Strauss, J.V.**, *accepted*, A Bayesian framework for subsidence modeling in sedimentary basins: a case study of the Tonian Akademikerbreen Group of Svalbard, Norway: *Earth and Planetary Science Letters*, v. xx, p. xxx.

2022:

70. *Busch, J.F., Hodgin, E.B., Ahm, A.-S., Husson, J.M., Macdonald, F.A., Bergmann, K.D., Higgins, J.A., and **Strauss, J.V.**, 2022, Global and local drivers of the Ediacaran Shuram carbon isotope excursion: *Earth and Planetary Science Letters*, v. 579, p. 117368.

69. Kinney, S.T., MacLennan, S.A., Szymanowski, D., Keller, C.B., VanTongeren, J.A., Setera, J.B., Jaret, S.J., **Town, C.F., **Strauss, J.V.**, Bradley, D.C., Olsen, P.E., and Schoene, B., 2022., Onset of long-lived silicic and alkaline magmatism in eastern North America precedes CAMP emplacement: *Geology*, v. 50, p. 1301–1305.

68. Koch, M.M., *Faehnrich, K., McClelland, W.C., Crowley, J.L., Melchin, M.J., Beranek, L.P., and **Strauss, J.V.**, 2022, Age and significance of the Fire Bay Formation: An Ordovician arc fragment within the Clements Markham Belt, Northwest Ellesmere Island: *Canadian Journal of Earth Sciences*, v. 59, p. 639–659.

67. Millikin, A.E.G., **Strauss, J.V.**, Halverson, G.P., Bergmann, K.D., Tosca, N.J., and Rooney, A.D., 2022, Calibrating the Russoya excursion in Svalbard, Norway, and implications for Neoproterozoic chronology: *Geology*, v. 50, p. 506–510.

66. Richardson, J.A., Roest-Ellis, S., Phillips, B., **Strauss, J.V.**, Webb, S.M., and Tosca, N.J., 2022, Characterization and geological implications of Precambrian calcite-hosted phosphate: *Geophysical Research Letters*, v. 49, e2022GL100328.

2021:

65. Ahm, A.-S.C., Bjerrum, C.J., Hoffman, P.F., Macdonald, F.A., Maloof, A.C., Rose, C.V., **Strauss, J.V.**, and Higgins, J.A., 2021, The Ca and Mg isotope record of the Cryogenian Trezona carbon isotope excursion: *Earth and Planetary Science Letters*, v. 568, p. 117002.

64. *Busch, J.F., Rooney, A.D., Meyer, E.E., **Town, C., Moynihan, D., and **Strauss, J.V.**, 2021, Late Neoproterozoic–early Paleozoic basin evolution in the Coal Creek inlier of Yukon, Canada: Implications for the tectonic evolution of northwestern Laurentia: *Canadian Journal of Earth Sciences*, v. 58, p. 355–377.

63. *Faehnrich, K., McClelland, W.C., Colpron, M., **Nutt, C.L., **Miller, R.S., Trembath, M., and **Strauss, J.V.**, 2021, Pre-Mississippian stratigraphic architecture of the Porcupine Shear Zone, Yukon and Alaska, and significance in the evolution of northern Laurentia: *Lithosphere*, p. 7866155.

62. Farrell, U.C., Samawi, R., Anjanappa, S., Klykov, R., Adeboye, O., Agic, H., Ahm, A.-S.C., Boag, T.H., Bowyer, F.T., Brocks, J.J., Brunoir, T.N., Canfield, D.E., Chen, X., Cheng, M., Clarkson, M.O., Cordie, D., Crockford, P.W., Cui, H., Dahl, T.W., Mouro, L., Dewing, K., Dornbos, S., Drabon, N., Dumoulin, J.A., Emmings, J.F., Endriga, C., Fraser, T., Gaines, R.R., Gaschnig, R., Gibson, T., Gilleaudeau, G.J., Goldberg, K., Guilbaud, R., Halverson, G.P., Hammarlund, E.U., Hantsoo, K.G., Henderson, M., Hodgskiss, M.S.W., Horner, T.J., Husson, J., Johnson, B.W., Kabanov, P., Keller, C.B., Kimmig, J., Kipp, M.A., Knoll, A.H., Kreitsmann, T., Kunzmann, M., Kurzweil, F., LeRoy, M.A., Li, C., Lipp, A.G., Loydell, D.K., Lu, X., Macdonald, F.A., Magnall, J.M., Mänd, K., Mehra, A., Melchin, M.J., Miller, A.J., Mills, N.T., Mwinde, C., O'Connell, B., Och, L.M., Ossa Ossa, F., Pagès, A., Paiste, K., Partin, C.A., Peters, S.E., Playter, T., Plaza-Torres, S., Porter, S., Poulton, S.W., Pruss, S.B., Richoz, S., Ritzer, S.R., Rooney, A.D., Sahoo, S., Schoepfer, S.D., Sclafani, J.A., Shen, Y., Shorttle, O., Slotznick, S., Smith, E., Spinks, S.C., Stockey, R.G., **Strauss, J.V.**, Stüeken, E.E., Tecklenburg, S., Thomson, D., Tosca, N.J., Uhlein, G.J., Vizcaíno, M.N., Wang, H., White, T., Wilby, P., Woltz, C., Wood, R.A., Yurchenko, I., Zhang, T., Planavsky, N.J., Lau, K.V., Johnston, D.T., and Sperling, E.A., 2021, The Sedimentary Geochemistry and Paleoenvironments Project: *Geobiology*, v. 19, p. 545–556.

61. *Gibson, T.M., *Faehnrich, K., *Busch, J.F., McClelland, W.C., Schmitz, M.D., and **Strauss, J.V.**, 2021, A detrital zircon test of large-scale terrane displacement along the Arctic margin of North America: *Geology*, v. 49, p. 545–550.

60. *Gibson, T.M., Millikin, A.E.G., Anderson, R.P., Myrow, P.M., Rooney, A.D., and **Strauss, J.V.**, 2021, Tonian deltaic sedimentation on the edge of Laurentia: The Veteranen Group of northeastern Spitsbergen, Svalbard: *Sedimentary Geology*, v. 426, p. 106011.
59. *Mehra, A., Keller, C.B., *Zhang, T., Tosca, N.J., McLennan, S., Sperling, E.A., Farrell, U., Brocks, J., Canfield, D., Cole, D., Crockford, P., Cui, H., Dahl, T.W., Dewing, K., Emmings, J.F., Gaines, R.R., Gibson, T., Gilleaudeau, G.J., Guillbaud, R., Hodgskiss, M., Jarrett, A., Kabanov, P., Kunzmann, M., Loydell, D.K., Lu, X., Miller, A., Mills, N.T., Mouro, L.D., O’Connell, B., Peters, S.E., Poulton, S., Ritzer, S.R., Smith, E., Wilby, P., Woltz, C., and **Strauss, J.V.**, 2021, Curation and analysis of global sedimentary geochemical data to inform Earth history: *GSA Today*, v. 31, p. 4–9.
58. McClelland, W.C., **Strauss, J.V.**, Colpron, M., Gilotti, J.A., *Faehnrich, K., Malone, S.J., Gehrels, G.E., Macdonald, F.A., Oldow, J.S., 2021, “Taters” versus “Sliders”: Evidence for a long-lived history of strike-slip displacement along the Canadian Arctic Transform System (CATS): *GSA Today*, v. 31, p. 4–11.
57. Roest-Ellis, S., **Strauss, J.V.**, and Tosca, N.J., 2021, Experimental constraints on non-skeletal CaCO₃ precipitation from mid-Neoproterozoic seawater: *Geology*, v. 49, p. 561–565.
56. Sperling, E.A., Melchin M.J., Fraser, T., Stockey, R.G., Farrell, U.C., Bhajan, L., Browne, T.N., Cole, D.B., Gill, B.C., Lenz, A., Loydell, D.K., **Malinowski, J. Miller, A.J., Plaza-Torres, S., Rodewald, B., Rooney, A.D., Tecklenburg, S.A., Vogel, J.M., Planavsky, N.J., and **Strauss, J.V.**, 2021, An exceptional record of early to middle Paleozoic redox change: *Science Advances*, v. 7, p. eabf4382.
55. Trower, E.J., **Strauss, J.V.**, Sperling, E.A., and Fischer, W.W., 2021, Isotopic analyses of Ordovician–Silurian siliceous skeletons indicate silica-depleted Paleozoic oceans: *Geobiology*, v. 19, p. 460–472.
54. *Wala, V.T., Ziemniak, G., Majka, J., *Faehnrich, K., McClelland, W.C., Meyer, E.E., Manecki, M., Bazarnik, J., and **Strauss J.V.**, 2021, Neoproterozoic stratigraphy of the Southwestern Basement Province, Svalbard: Constraints on the Proterozoic–Paleozoic evolution of the North Atlantic–Arctic Caledonides: *Precambrian Research*, v. 358, p. 106138.
- 2020:**
53. *Faehnrich, K., Majka, J., Schneider, D., Mazur, S., Manecki, M., Ziemniak, G., *Wala, V.T., and **Strauss, J.V.**, 2020, Geochronological constraints on Caledonian strike-slip displacement in Svalbard, with implications for the evolution of the Arctic: *Terra Nova*, v. 32, p. 290–299.
52. Laakso, T.A., **Strauss, J.V.**, and Peterson, K.J., 2020, Herbivory and its effect on Phanerozoic oxygen concentrations: *Geology*, v. 48, p. 410–414.
51. Rooney, A.D., Cantine, M.D., Bergmann, K.D., Gómez-Pérez, I., Baloushi, B., Boag, T.H., *Busch, J.F., Sperling, E.A., and **Strauss, J.V.**, 2020, Calibrating the co-evolution of Ediacaran life and environment: *Proceedings of the National Academy of Sciences*, v. 117, p. 16824–16830.
50. **Strauss, J.V.** and Tosca, N.J., 2020, Mineralogical constraints on Neoproterozoic pCO₂ and marine carbonate chemistry: *Geology*, v. 48, p. 599–603.
49. **Strauss, J.V.**, Fraser, T., Melchin, M.J., Allen, T.J., **Malinowski, J., Feng, X., Taylor, J.F., Day, J., Gill, B.C., and Sperling, E.A., 2020, The Road River Group of northern Yukon, Canada: Early Paleozoic deep-water sedimentation within the Great American Carbonate Bank: *Canadian Journal of Earth Science*, v. 57(10), p. 1193–1219.
- 2019:**
48. Ahm, A-S., Maloof, A.C., Macdonald, F.A., Hoffman, P.F., Bjerrum, C.J., Bold, U., Rose, C.V., **Strauss, J.V.**, and Higgins, J.A., 2019, An early diagenetic deglacial origin for basal Ediacaran “cap dolostones”: *Earth and Planetary Science Letters*, v. 506, p. 292–307.

47. Bazarnik, J., Majka, J., McClelland, W.C., **Strauss, J.V.**, Kósmínska, K., Piepjohn, K., Elvevold, S., Czupyt, Z., and Mikuš, T., 2019, U-Pb zircon dating of metaigneous rocks from the Nordbreen Nappe of Svalbard's Ny-Friesland terrane suggests their affinity to Northeast Greenland: *Terra Nova*, v. 31, p. 518-526.
46. *Busch, J.F., **Strauss, J.V.**, **Saylor, M.H., Allen, T.J., *Faehrich, K., and Taylor, J.F., 2019, Preliminary observations of the Bouvette Formation at Nadaleen Mountain, Yukon (NTS 106C/2,3): in MacFarlane, K.E., ed., *Yukon Exploration and Geology 2018*: Yukon Geological Survey, p. 19-42.
45. Colpron, M., **Strauss, J.V.**, and McClelland, W.C., 2019, Detrital zircon U-Pb geochronological and Hf isotopic constraints on the geological evolution of North Yukon, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 397-437.
44. Johnson, B.G., **Strauss, J. V.**, Taylor, J. F., Ward, W. P., Colpron, M., McClelland, W. C., Toro, J., 2019, Geochronology, paleontology, and geochemistry from the Whale Mountain allochthon of the northeastern Brooks Range, Alaska, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 439-472.
43. ***Moynihan, D., *****Strauss, J.V.**, Padget, C.M., and Nelson, L.L., 2019, Upper part of the Windermere Supergroup in the Nadaleen River area, east-central Yukon: stratigraphy, regional correlations and implications for development of the western Laurentian margin: *Geological Society of America Bulletin*, v. 131, no. 9/10, p. 1673-1701.
42. Nelson, L.L., **Strauss, J.V.**, Crockford, P.W., Cox, G.M., Johnson, B.G., Ward, W., Colpron, M., McClelland, W.C., and Macdonald, F.A., 2019, Neodymium isotopic and geochemical constraints on the provenance of pre-Mississippian sedimentary rocks in the North Slope of Yukon and Alaska, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 573-592.
41. **Strauss, J.V.**, Macdonald, F.A., and McClelland, W.C., 2019a, Pre-Mississippian stratigraphy and provenance of the North Slope subterranean of Arctic Alaska I: Platformal rocks of the northeastern Brooks Range and their significance in circum-Arctic evolution, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 493-524.
40. **Strauss, J.V.**, Johnson, B.G., Colpron, M., Nelson, L.L., **Perez, J., Benowitz, J.A., Ward, W., and McClelland, W.C., 2019b, Pre-Mississippian stratigraphy and provenance of the North Slope subterranean of Arctic Alaska II: Basinal rocks of the northeastern Brooks Range and their significance in circum-Arctic evolution, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 525-572.
39. Ward, W.P., **Strauss, J.V.**, Johnson, B.G., McClelland, W.C., Colpron, M., von Gosen, W., Piepjohn, K., Cobble, M., Crockford, P.W., and Landis, J., 2019, Age, geochemistry and significance of Devonian felsic magmatism in the North Slope subterranean, Yukon, in Piepjohn, K., **Strauss, J.V.**, Reinhardt, L. and McClelland, W.C., eds., Circum-Arctic Structural Events: Tectonic Evolution of the Arctic Margins and Trans-Arctic Links with Adjacent Orogens: *Geological Society of America Special Paper 541*, p. 593-618.
- 2018:**
38. Fraser, T.A., Crawford, I., Gadd, M.G., Henderson, K., Layton-Matthews, D., Melchin, M., Peter, J.M., Sack, P.J., Sperling, E., and **Strauss, J.V.**, 2018, An overview of shale studies in Yukon during the 2017 field season, in MacFarlane, K.E., ed., *Yukon Exploration and Geology 2017*: Yukon Geological Survey, p. 37-45.
37. Halverson, G.P., Maloof, A.C., **Strauss, J.V.**, and Kunzmann, M., 2018, The Tonian-Cryogenian transition in northeastern Svalbard: *Precambrian Research*, v. 319, p. 79-95.

36. Macdonald, F.A., Schmitz, M.D., **Strauss, J.V.**, Halverson, G.P., Gibson, T., Eyster, A., Cox, G., Mamrol, P., and Crowley, J., 2018, The Cryogenian of Yukon: *Precambrian Research*, v. 319, p. 114–143.

35. Trower, E.J., Cantine, M., Gomes, M., Grotzinger, H., Grotzinger, J.P., Knoll, A.H., Lamb, M.P., Lingappa, U., O'Reilly, S.S., Present, T.M., Stein, N., **Strauss, J.V.**, and Fischer, W.W., 2018, Active ooid growth driven by sediment transport in a high energy shoal, Little Ambergris Cay, Turks and Caicos, British Overseas Territories, *Journal of Sedimentary Research*, v. 88, p. 1132–1151.

2017:

34. Cohen, P.A., Irvine, S., and **Strauss, J.V.**, 2017, Vase-shaped microfossils from the Callison Lake Formation of Yukon, Canada: Taxonomy, taphonomy, and stratigraphic paleobiology: *Palaeontology*, v. 60, no. 5, p. 1-19.

33. Cohen, P.A., **Strauss, J.V.**, Rooney, A.D., Sharma, M., and Tosca, N.J., 2017, Controlled hydroxyapatite biomineralization in an ~810 million-year-old unicellular eukaryote: *Science Advances*, v. 3, n. 6, p. 1-8.

32. Eyster, A.E., Fu, R.R., **Strauss, J.V.**, Weiss B.J., Roots, C.F., Halverson, G.P., Evans, D.A.D., and Macdonald, F.A., 2017, Paleomagnetic evidence for a 50 degree rotation of the Yukon block relative to Laurentia: Implications for a low-latitude Sturtian glaciation and the break-up of Rodinia: *Geological Society of America Bulletin*, v. 129, no. 1/2, p. 38–58.

31. Miller, A.J., **Strauss, J.V.**, Halverson, G.P., Macdonald, F.A., Johnston, D.T., and Sperling, E.A., 2017, Tracking the onset of Phanerozoic-style redox-sensitive trace metal enrichments: New data from basal Ediacaran post-glacial strata in NW Canada: *Chemical Geology*, v. 457, p. 24–37.

30. **Strauss, J.V.**, Hoiland, C.W., and Nelson, L.L., 2017, Field Report: Exploring the Doonerak fenster of the central Brooks Range, Alaska, USA: *Geoscience Frontiers*, v. 8, p. 915–918.

29. **Strauss, J.V.**, Hoiland, C.W., Ward, W., Johnson, B.G., Nelson, L., and McClelland, W.C., 2017, Orogen transplant: Taconic–Caledonian magmatism in the Brooks Range of Alaska: *Geological Society of America Bulletin*, v. 129, no. 5/6, p. 649–676.

2016:

28. Cox, G.M., Halverson, G.P., Poirier, A., Le Heron, D., Stevenson, R., and **Strauss, J.V.**, 2016a, A model for Cryogenian iron formation: *Earth and Planetary Science Letters*, v. 433, p. 280–292.

27. Cox, G.M., Halverson, G.P., Stevenson, R.K., Vokaty, M., Poirier, A., Kunzmann, M., Li, Z.-X., Denyszyn, S.W., **Strauss, J.V.**, and Macdonald, F.A., 2016b, Continental flood basalt weathering as a trigger for Neoproterozoic Snowball Earth: *Earth and Planetary Science Letters*, v. 446, p. 89–99.

26. Johnson, B.G., **Strauss, J.V.**, Toro, J., Benowitz, J.A., and Ward, W.P., 2016, Detrital geochronology of pre-Mississippian strata in the northeastern Brooks Range, Alaska: Insights into the tectonic evolution of northern Laurentia: *Lithosphere*, v. 8, no. 6, p. 649–667.

25. Knoll, A.H., Bergmann, K.D., and **Strauss, J.V.**, 2016, Life: The First Two Billion Years: *Philosophical Transactions of the Royal Society B*, v. 371, p. 1-13.

24. Sperling, E.A., Carbone, C., **Strauss, J.V.**, Johnston, D.J., Narbonne, G.M., and Macdonald, F.A., 2016, Oxygen, facies, and secular controls on the appearance of Cryogenian and Ediacaran body and trace fossils in the Mackenzie Mountains of northwestern Canada: *Geological Society of America Bulletin*, v. 128, no. 3-4, p. 558–575.

2015:

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Recent Conference Abstracts (2018–2022)

*Dartmouth Graduate Presenter **Dartmouth Undergraduate Presenter ***Dartmouth Postdoc Presenter

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Anderson, R.P., Wedlake, G.O., Parry, L.A., Gibson, T.M., Millikin, A.E.G., Piepjohn, K., Tosca, N.J., Rooney, A.D., and **Strauss, J.V.**, 2023, Multicellular microfossils from the ca. 930–820-million-year-old Veteranen Group of Svalbard: Palaeontological Society Annual Meeting, Paper No. xxx.

***Biasi, J., and **Strauss, J.V.**, 2023, The paleogeography of northern Alaska: knowns and unknowns: Geological Society of America, Cordilleran Section, Paper No. xxx.

Connors, C., Craddock, W., Houseknecht, D., Dumoulin, J., Lease, R., McClelland, W.C., and **Strauss, J.V.**, 2023, Paleozoic fold-and-thrust belts in Arctic Alaska and the adjacent offshore region: American Association of Petroleum Geologists International Conference and Exhibition, Paper No. xxx.

Geier IV, G.R., Lockett, A.C., Kroeger, E.D.L., Fame, M.L., McClelland, W.C., Connors, C.D., and **Strauss, J.V.**, 2023, New geologic mapping of the Arctic D-1 NE and Table Mountain D-5 NW 7.5' quadrangles, northeastern Brooks Range, Alaska: Geological Society of America Annual Meeting, Paper No. xxx.

McClelland, W.C., Connors, C.D., **Strauss, J.V.**, Lease, R.O., Craddock, W.H., Houseknecht, D.W., Gooley, J.A., and Crowley, J.L., 2023, Linking MDA estimates, pluton emplacement and deformation in the North Slope subsurface, Alaska, with CA-TIMS: Implications for Devonian orogenesis in the Brooks Range: Geological Society of America Annual Meeting, Pittsburgh, PA, Paper No. xxx.

Methly, P., Jiang, C.Z., **Strauss, J.V.**, and Tosca, N.J., 2023, Investigating the “Dolomystery”: A multifaceted study of Precambrian primary dolomite: Goldschmidt Meeting, Vienna, Austria, Paper No. xxx.

Sehra, S., Geier IV, G., Lockett, A., Galloway, P., McClelland, W.C., Connors, C., and **Strauss, J.V., 2023, Stratigraphy and provenance of the Keikiktuk Conglomerate and Associated Lower Carboniferous Units in the Northeastern Brooks Range of Alaska: Geological Society of America Cordilleran Section, Paper No. xxx.

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Anderson, R.P., Wedlake, G.O., Gibson, T., Millikin, A., Piepjohn, K., Tosca, N.J., Rooney, A.D., and **Strauss, J.V.**, 2022, New multicellular microfossil eukaryotes from the ca. 950–820 Ma Veteranen Group of Svalbard: Geological Society of America Annual Meeting, Paper No. 381462.

Clemente, J., Ostrander, C., Nielsen, S.G., Stockey, R.G., **Strauss, J.V.**, and Sperling, E.A., 2022, Timing Phanerozoic deep ocean oxygenation using thallium isotopes: American Geophysical Union Annual Meeting, Paper No. xx.

Counts, J., Griffis, N., Maloof, A.C., Capion, A., Dumoulin, J., Gooley, J., Connors, C., and **Strauss, J.V.**, 2022, A new $\delta^{13}\text{C}_{\text{carb}}$ and $\delta^{18}\text{O}_{\text{carb}}$ record from the Carboniferous of Alaska: Geological Society of America Annual Meeting, Paper No. 378699.

*Faehnrich, K., McClelland, W.C., Webb, L.E., Rasbury, E.T., Colpron, M., and **Strauss, J.V.**, 2022, Displacement history along the Porcupine Shear Zone and its role in the opening of the Canada Basin: International Conference on Arctic Margins: Ottawa, Canada.

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*Zhang, T., Smith, E.F., Eyster, A., **Strauss, J.V.**, Mixed carbonate-clastic sedimentation in the late Ediacaran Reed Dolomite: Geological Society of America Annual Meeting, Paper No. 376812.

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- *Faehnrich, K., McClelland, W.C., Kosminska, K., and **Strauss, J.V.**, Geochemistry and tectonic setting of the Yelverton Formation, Ellesmere Island, Canada: A record of Ediacaran–Cambrian extension along the northern margin of Laurentia: American Geophysical Union, Paper No. T13G-0264.
- ***Gibson, T.M., Faehnrich, K., Busch, J.F., McClelland, W.C., Schmitz, M., and **Strauss, J.V.**, 2019, Testing the utility of detrital zircon geochronology across complex terrane boundaries: a case study from the northern Cordillera: American Geophysical Union Annual Meeting, Paper No. T31I-0320.
- Kinney, S.T., MacLennan, S.A., Setera, J., Schoene, B., VanTongeren, J.A., Olsen, P.E., **Strauss, J.V.**, **Town, C.F., and Bradley, D.C., 2019, Causal implications of a new zircon U-Pb geochronological framework for Mesozoic magmatism in northern New England and Quebec: what are the rift/post-rift igneous rocks of the White Mountains?: Geological Society of America, Northeastern Section Meeting, Portland, Paper No. 328495.
- Koch, M.M., **Strauss, J.V.**, Faehnrich, K., and McClelland, W.C., 2019, Igneous and detrital zircon signatures of the Fire Bay Formation, Clements Markham Fold Belt, Northwest Ellesmere Island: Geological Society of America, Northeastern Section Meeting, Portland, Paper No. 328412.
- Millikin, A.E.G., Gibson, T.M., Anderson, R.P., **Strauss, J.V.**, and Rooney, A.D., 2019, Geochronology, geochemistry and stratigraphy of the Neoproterozoic Hecla Hoek Succession, Svalbard, Norway: Geological Society of America Annual Meeting, Phoenix, AZ, Paper No. 272-3.
- Millikin, A.E.G., Rooney, A.D., Gibson, T.M., Anderson, R.P., Bergmann, K., and **Strauss, J.V.**, 2019, Geochronology, geochemistry and stratigraphy of the Neoproterozoic Hecla Hoek Succession, Svalbard, Norway: Banff Geobiology Meeting, Banff, Canada.
- Palucis, M., **Strauss, J.V.**, Rivera-Hernandez, F., Morgan, A.M., Menio, E., and Marshall, J.A., 2019, How are fans build under a cold and icy Mars climate scenario?: Geological Society of America Annual Meeting, Phoenix, AZ, Paper No. 86-5.
- Piepjohn, K., and the CASE-Team, 2019, Tectonic map of the central and southwestern Pearya Terrane, Ellesmere Island, Canada: European Geophysical Union, Paper No. 12949.
- ***Rivera-Hernandez, F., Morgan, A., **Strauss, J.V.**, Menio, E., Marshall, J.A., and Palucis, M.C., 2019, Periglacial fans in the Aklavik Range, Northwest Territories: An analog depositional environment for a cold and icy Mars: American Geophysical Union, Paper No. EP21E-2210.
- Robinson, P., **Strauss, J.V.**, and Thompson, P.J., 2019, Erving Granulite, west-central Massachusetts: Detrital zircons suggest a Lochkovian maximum depositional age: Geological Society of America, Northeastern Section Meeting, Portland, Paper No. 327931.
- Roest-Ellis, S., Pietzsch, R., **Strauss, J.V.**, and Tosca, N.J., 2019, The nucleation of CaCO₃ from Neoproterozoic seawater: Bathurst Annual Meeting, Ibiza, Spain.
- Rooney, A.D., Busch, J.F., Cantine, M., Bergmann, K.D., Macdonald, F.A., **Strauss, J.V.**, and Zhu, M., 2019, New Re-Os ages for the Ediacaran Period: an update on constraining global environmental change: Goldschmidt Annual Meeting, Barcelona, Spain.
- Strauss, J.V.**, 2019, On the pre-Carboniferous evolution of the North Slope of Arctic Alaska with implications for circum-Arctic paleogeographic reconstructions: AGU Chapman Conference, Selfoss, Iceland.

Strauss, J.V., Sperling, E.A., Allen, T., Tosca, N.J., Fraser, T., Melchin, M., and Jackson, B.P., 2019, A deep-marine record of early Paleozoic mercury deposition from the Road River Group of northern Yukon, Canada: American Geophysical Union Annual Meeting, Paper No. V31C-0115.

Tosca, N.J., **Strauss, J.V.**, Roest-Ellis, S., Pietzsch, R., Phillips, B., Richardson, J., and Webb, S., 2019, The mid-Neoproterozoic carbonate factory and the long-term evolution of the Precambrian CaCO₃ cycle: Bathurst Annual Meeting, Ibiza, Spain.

Town, C.F., **Strauss, J.V., Kinney, S.T., MacLennan, S.A., Bradley, D.C., Olsen, P.E., Schoene, B., and Setera, J., 2019, New zircon U-Pb geochronological data from the Moat Volcanics, White Mountains, New Hampshire – implications for rift and/or plume related magmatism: Geological Society of America, Northeastern Section Meeting, Portland, Paper No. 327960.

Ziemniak, G., Majka, J., Manecki, M., Jeanneret, P., McClelland, W.C., Walczak, K., **Strauss, J.V.**, Lorenz, H., Wala, V.T., and Kosminska, K., 2019, The Thorkelsenfjellet–Jorgenfjellet shear zone dividing the Southwestern Basement Province of Svalbard in Oscar II Land – evidence of Caledonian ductile dextral strike-slip?: European Geophysical Union, Vienna, Paper No. 18214.

2018:

Ahm, A-S., Macdonald, F., Hoffman, P., Bjerrum, C., Bold, U., Rose, C., **Strauss, J.V.**, and Higgins, J., 2018, An early diagenetic deglacial origin for basal Ediacaran ‘cap dolostones’: American Geophysical Union, Washington DC, Paper No. xx.

Ahm, A-S., Maloof, A., Bjerrum, C., Bold, U., Hoffman, P., Macdonald, F., Rose, C., **Strauss, J.V.**, and Higgins, J., 2018, An early diagenetic deglacial origin for basal Ediacaran ‘cap dolostones’: Goldschmidt Abstracts, Boston, MA, Paper No. 25.

*Busch, J.F., and **Strauss, J.V.**, 2018, Characterization and provenance of the Neoproterozoic “upper” Group in the Coal Creek inlier, Ogilvie Mountains, Yukon: Cordilleran Tectonics Workshop, Whitehorse.

*Faehnrich, K., **Strauss, J.V.**, McClelland, W.C., Colpron, M., and Israel, S., 2018, The Porcupine Shear Zone of northern Yukon and Alaska: Cordilleran Tectonics Workshop, Whitehorse.

Jackson, B., Sharma, M., Seo, J.-H., and **Strauss, J.V.**, 2018, Application of ICP-QQQ to isotope tracer studies: Goldschmidt Abstracts, Boston, MA, Paper No. 1142.

Kinney, S.T., Setera, J.B., Olsen, P.E., MacLennan, S.A., Van Tongeren, J.A., Schoene, B., Town, C.F., **Strauss, J.V.**, Hemming, S.R., and Bradley, D.C., 2018, Causal implications of new geochronological constraints on Mesozoic post-rift magmatism in New England: Goldschmidt Abstracts, Boston, MA, Paper No. 1294.

Loch, J.D., Taylor, J.F., Repetski, J.E., **Strauss, J.V.**, and Kamerer, W.T., 2018, Paleoenvironmental distribution of the late Cambrian (Furongian) agnostoid arthropod *Lotagnostus* in western Laurentia: Geological Society of America Annual Meeting, Indianapolis, IN, Paper No. 257-3.

Neal, B., Reusch, D.N., **Strauss, J.V.**, Bradley, D., and Gibson, D., 2018, Hyper-cryptic thrust faults in the Rumford allochthon, Saddleback Wind, Carthage, Maine: Geological Society of America Northeastern Section Meeting, Burlington, Paper No. 56-5.

Piepjohn, K., and the CASE-Team, 2018, Tectonic map of the central and southwestern Pearya Terrane, Ellesmere Island, Canada: International Conference on Arctic Margins (ICAM), Stockholm, Sweden.

Rodewald, B.M., Vogel, J., Stockey, R., Fraser, T., **Strauss, J.V.**, Melchin, M., and Sperling, E.A., 2018, The black shale record of the Ordovician radiation: new insights into redox change from the Road River Group of Yukon, Canada: Geological Society of America Annual Meeting, Indianapolis, IN, Paper-No. 170-1.

Sperling, E.A., **Strauss, J.V.**, Fraser, T.A., Miller, A., Farrell, U.C., Tecklenburg, S., Malinowski, J., Torres Plaza, S., Bhajan, L., Stockey, R.G., Cole, D.B., Planavsky, N.J., Loydell, D.K., Lenz, A., and Melchin, M.J., 2018, An exceptional record of early- to mid-Paleozoic redox change from the Road River Group, Yukon, Canada: Goldschmidt Abstracts, Paper No. 2400.

Strauss, J.V., and Tosca, N.J., 2018, Chemical sedimentation in the Callison Lake Formation, Yukon, Canada: A window into Tonian seawater carbonate chemistry: American Geophysical Union, Paper No. PP51A-03.

Thompson, P.J., and **Strauss, J.V.**, 2018, Reevaluation after 50 years of nappes in western New Hampshire: Are the Skitchewaug and Cornish nappes one and the same?: Geological Society of America Northeastern Section Meeting, Burlington, Paper No. 29-2.

*Wala, V.T., **Strauss, J.V.**, Majka, J., Ziemniak, G., Faehnrich, K., Meyer, E.E., Czerny, J., Bellefroid, E.J., Feng, X., and McClelland, W.C., 2018, Neoproterozoic stratigraphy of the Southwestern Basement Province, Svalbard: Constraints on the Proterozoic–Paleozoic evolution of the North Atlantic–Arctic Caledonides: American Geophysical Union, Paper No. T43I–3712.

Awarded Research Grants

- 2023 NSF Sedimentary Geology and Paleobiology, EAR-2233726. *Collaborative Research: RUI: Exploring early metazoan reef evolution through a multi-scale approach*. A. Mehra and **J.V. Strauss** (Co-PI, Dartmouth) and P. Cohen (Co-PI, Williams College), \$390,778 Dartmouth, \$496,523 total. Re-budgeted to accommodate PI Mehra's transfer to University of Washington.
- 2022 USGS EDMAP Program. *Bedrock geological mapping of the northern Table Mountain D-5 quadrangle, Brooks Range, Alaska*. **J.V. Strauss** (PI, Dartmouth), \$35,000.
- 2021 NSF Polar Programs, EAR-2116471. *Collaborative Research: Watershed-scale geomorphic response to climate change in the Aklavik Range, NWT (Canada)*. M. Palucis and **J.V. Strauss** (PI and Co-PI, Dartmouth) and J. Marshall (Co-PI, University of Arkansas), \$520,231 Dartmouth, \$776,798 total.
- 2021 Alfred P. Sloan Foundation Fellowship. *Exploring archives of non-skeletal carbonate sedimentation*. **J.V. Strauss** (PI, Dartmouth), \$75,000.
- 2021 USGS EDMAP Program. *Bedrock geological mapping of the northeastern Arctic D-1 quadrangle, Brooks Range, Alaska, with implications for the amalgamation of Arctic Alaska*. **J.V. Strauss** (PI, Dartmouth), \$25,000.
- 2020 NSF Frontiers in Earth Sciences, EAR-2021176. *Collaborative Research: Co-evolution of Earth and life across the Proterozoic–Phanerozoic transition: Integrated perspectives from outcrop and drill core*. E.F. Smith (Lead PI, Johns Hopkins University), **J.V. Strauss** and C.B. Keller (PI and Co-PI, Dartmouth), K. Lau (PI, University of Wyoming), A.D. Rooney and D.A. Evans (PI and Co-PI, Yale University), and S. Xiao (PI, Virginia Tech), \$739,430 Dartmouth, \$3,000,000 total.
- 2020 NSF Tectonics, EAR-1929593. *Collaborative Research: An Alaskan perspective on middle Paleozoic terrane translation, contraction, and subduction initiation in northwestern Laurentia*. **J.V. Strauss** (Lead PI, Dartmouth), W.C. McClelland (Co-PI, University of Iowa), and C. Connors (Co-PI, Washington and Lee University), \$249,582 Dartmouth, \$613,948 total.
- 2020 Dartmouth College Neukom CompX. *Acquisition of unmanned aerial vehicles for training the next generation of field scientists*. A. Mehra and **J.V. Strauss** (Dartmouth), \$39,998.
- 2019 NSF Low-Temperature Geochemistry and Geobiology, EAR-1929593. *Collaborative Research: Developing a multi-proxy approach for reconstructing deep-time silicate weathering*. A.D. Rooney (Lead PI, Yale University) and **J.V. Strauss** (Co-PI, Dartmouth), \$246,900 Dartmouth, \$525,040 total.

- 2018 NSF MRI, EAR-1828099. *MRI: Acquisition of an Isotope Ratio Mass Spectrometer (IRMS) to enable interdisciplinary research at Dartmouth and beyond*. C. Hicks Pries (Lead PI, Dartmouth), W. Leavitt (Co-PI, Dartmouth), and **J.V. Strauss** (Co-PI, Dartmouth), \$483,128 total.
- 2018 NASA Solar Systems Workings Program, *How much water does it take to build a fan under a “cold and icy” Mars climate scenario?*. M. Palucis (Lead PI, Dartmouth) and **J.V. Strauss** (Co-I, Dartmouth), \$343,160 total.
- 2018 National Geographic Society, *The Neoproterozoic of Svalbard: Critical archives for ancient seawater chemistry and animal evolution*. **J.V. Strauss** (PI, Dartmouth), \$30,000 total.
- 2018 American Chemical Society–Petroleum Research Fund–Doctoral New Investigator, *Neoproterozoic Analogs for Mg-silicate-bearing Petroleum Basins*. **J.V. Strauss** (PI, Dartmouth), \$110,000.
- 2017 NSF Tectonics, EAR-1650152. *Collaborative Research: Displacement history of the Pearya terrane – evaluating a strike-slip origin for the Canadian Arctic margin*. J.A. Gilotti (Lead PI, University of Iowa), W.C. McClelland (Co-PI, University of Iowa), **J.V. Strauss** (Co-PI, Dartmouth), \$141,662 Dartmouth, \$415,040 total.
- 2017 Research Council of Norway Arctic Field Grant, *Neoproterozoic stratigraphy and provenance of Wedel Jarlsberg Land, Southwest terrane, Spitsbergen*. V. Wala (Graduate Student, Dartmouth), **J.V. Strauss** (Dartmouth), \$9,100.
- 2016 NSF Tectonics, EAR-1624131. *Collaborative Research: The Kaltag-Porcupine fault system of northern Yukon: Evaluating large-scale terrane displacement in the Arctic and beyond*. **J.V. Strauss** (Lead PI, Dartmouth), W.C. McClelland (Co-PI, University of Iowa), \$241,522 Dartmouth, \$414,709 total.
- 2016 G. Norman Albree Trust Fund, *2016 Albree Trust Grant Proposal: Earth Science Micro- and Macro-photography*. **J.V. Strauss** (Lead PI, Dartmouth), \$10,000.
- 2015 GSA Graduate Student Research Grant, **J.V. Strauss** (Graduate Student, Harvard), \$1,900.
- 2014 GSA Graduate Student Research Grant, **J.V. Strauss** (Graduate Student, Harvard), \$900.
- 2012 NSF Graduate Research Fellowship, *An integrated study of Cambrian stratigraphy in Arctic Alaska and Canada*. **J.V. Strauss** (Graduate Student, Harvard), \$96,000.

Supervised and Co-Supervised Undergraduate Theses

Dartmouth College, Department of Earth Sciences, Hanover, NH

- | | |
|---|-----------------|
| Shaalin Sehra – <i>Stratigraphy and provenance of Carboniferous strata in the northeastern Brooks Range of Alaska</i> | grad. June 2023 |
| Peter Kannam – <i>Early Paleozoic deep-marine marine mercury (Hg) deposition</i> | grad. June 2022 |
| Rebecca Miller – <i>Compilation bedrock geology along the Alaska–Yukon border from the Arctic Ocean to the Yukon River</i> | grad. June 2020 |
| Christian Trejo – <i>Age and significance of early Paleozoic unnamed chert units in the Zavkhan Terrane of Mongolia</i> | grad. June 2020 |
| Charlotte Nutt – <i>Middle to late Paleozoic stratigraphy and provenance of the Porcupine terrane: Implications for the tectonic history of western North America</i> | grad. June 2019 |
| Maxwell Saylor – <i>A sedimentological and paleontological study of the Cambrian–Devonian Bouvette Formation at Nadaleen Mountain, Yukon, Canada</i> | grad. June 2019 |
| Caleb “Forrest” Town – <i>U-Pb geochronology of the Moat Volcanics, White Mountains, New Hampshire</i> | grad. June 2018 |
| Joe Malinowski – <i>The basal Road River Group of Yukon, Canada: New insights into the Cambrian–Ordovician carbon cycle</i> | grad. June 2018 |
| Jack Taylor – <i>Sedimentological and chemostratigraphic analysis of Ediacaran carbonate platforms in the Canadian Cordillera</i> | grad. June 2018 |
| Joshua Perez – <i>Age, Geochemistry, and Significance of Middle Paleozoic Volcanics in the Brooks Range</i> | grad. June 2017 |

Peter Mamrol – *Age and Significance of the Cambrian–Ordovician Dempster Volcanics, Yukon, Canada* grad. June 2016

Harvard University, Department of Earth and Planetary Sciences, Cambridge, MA

Lyle Nelson – *Provenance of Ediacaran–Cambrian strata of the North Slope of Alaska*

grad. May 2015

Esther Kennedy – *The sedimentology and chemostratigraphy of the Jones Ridge Limestone, AK*

grad. May 2013

Supervised and Co-Supervised Graduate Theses

(*indicates main supervisor)

Dartmouth College, Department of Earth Sciences, Hanover, NH

*George Geier – MSc supervisor	in progress
*Alexander Getraer – PhD supervisor (co-advised with Marisa Palucis)	in progress
*Reina Harding – PhD supervisor (co-advised with Brenhin Keller)	in progress
*Bailey Nordin – PhD supervisor (co-advised with Marisa Palucis)	in progress
*Luis Torres – MSc supervisor	in progress
*Tianran Zhang – PhD supervisor	in progress
Matthew Maclay – MSc committee member	in progress
*Karol Faehnrich – PhD supervisor	grad. June 2023
*James Busch – PhD supervisor	grad. June 2022
Gailin Pease – MSc committee member	grad. Dec 2021
Danielle Niu – PhD committee member	grad. Dec 2021
Alice Zhou – MSc committee member	grad. May 2019
*Virginia Wala – MSc supervisor	grad. May 2019
Mackenzie Marti – MSc committee member	grad. Jan 2018
Helen Doyle – MSc committee member	grad. July 2016

King Fahd University of Petroleum and Minerals, Dhahran, Kingdom of Saudi Arabia

Muhammad Hammad Malik – PhD external examiner in progress

University of Iowa, Department of Earth and Environment, Iowa City, IA

Samson Bruxvoort – MSc external examiner	in progress
Alec Lockett – MSc external examiner	grad. July 2023
Matthew Trembath – MSc external examiner	grad. July 2020

Yale University, Department of Earth and Planetary Sciences, New Haven, CT

Stacey Gerasimov – PhD external examiner	in progress
Alexie Millikin – PhD external examiner	in progress

Université Pierre et Marie Curie, Institut des Sciences de la Terre, Paris, France

Nicolas Lemonnier – PhD external examiner grad. Dec. 2015

Supervised and Co-Supervised Postdoctoral Scholars

Dartmouth College, Department of Earth Sciences, Hanover, NH

Ben Davis Barnes	in progress
Joseph Biasi	now at University of Wyoming
Akshay Mehra	now at University of Washington
Timothy Gibson	now at Yale University

Courses Taught

Dartmouth College, Department of Earth Sciences, Hanover, NH

Earth Sciences 2: *Evolution of Earth and Life*

Earth Sciences 38: *Sedimentary Systems*

Earth Sciences 58/158: *Sedimentary Petrology and Stratigraphy*

Earth Sciences 45/46/47: *The Stretch*

Earth Sciences 201: *Fundamentals and Pedagogy in Earth Sciences*

Earth Sciences 272: *Topics in Historical Geobiology*

Professional Service

Editorial Review Board

Geology (2021-2023)

Journal Reviewer

Chemical Geology

Geology

Geosphere

Geological Society of America Bulletin

Journal of the Geological Society of London

Lithosphere

Nature

Nature Geoscience

Norwegian Journal of Geology

Palaeogeography, Palaeoclimatology, and Paleoecology

Precambrian Research

Science

Science Advances

Sedimentology

Sedimentary Geology

Ad hoc Panel Reviewer and Panelist

NSF Tectonics

NSF Sedimentary Geology and Paleobiology

ACS Petroleum Research Fund

Conference Session Convener

2023 GSA NE Meeting: *Appalachian vestiges: Geology of the rocks in the Northern Appalachians that are almost gone*

2022 GSA Annual Meeting: *The geological evolution of northern Alaska: A session in honor of Charles "Gil" Mull*

2022 GSA Annual Meeting: *Cambrian–Ordovician Faunas and Events: A session in honor of John F. Taylor and John E. Repetski*

2022 GSA Annual Meeting Pardee Symposium: *The Proterozoic–Phanerozoic Transition: Laying the Foundation for the Modern Earth System*

2020 GSA Annual Meeting: *Precambrian Basin Analysis*

2019 AGU Annual Meeting: *The North Atlantic Realm from Neoproterozoic to Cenozoic: Orogens Old and New*

2019 AGU Chapman Meeting: *Subduction-related Magmatism in the Arctic*

2019 GSA NE Meeting: *Detrital mineral constraints on Appalachian tectonics*

2017 GSA Annual Meeting: *New perspectives on Cordilleran tectonics, paleogeography, and metallogeny*

2017 GSA Annual Meeting: *Circum-Arctic structural events: tectonic evolution of the Arctic margins and trans-Arctic links with adjacent orogens*

2016 AGU Annual Meeting: *Interpretations of stable carbon isotope records in sedimentary systems*

2016 GACMAC Annual Meeting: *Proterozoic Basins of Northern Laurentia*

2015 GACMAC-AGU Joint Session: *The Neoproterozoic-Paleozoic Earth system: records from an Earth in transition*

2015 GSA Annual Meeting: *Precambrian Geology of the North American Cordillera: An Exploration of New Developments in Laurentia's Ancient History*

Professional Societies

Alaska Geological Society

International Association of Sedimentologists

American Geophysical Union

Geological and Mineralogical Association of Canada
American Association of Petroleum Geologists
Society for Sedimentary Geology (SEPM)
Geological Society of America
American Alpine Club

College/Departmental Committee Work

Departmental Prerequisite Committee, Member

2022-present

Departmental Website Committee, Chair

2020-present

Departmental Seminar Organizer

2019-2020

Departmental Inclusion, Diversity, and Equity Committee

2019-2020