Stacia M. Gordon

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PROFESSIONAL PREPARATION:

Postdoctoral researcher, University of California, Santa Barbara, 2009

Ph.D., University of Minnesota, 2004-2009
Thesis title: "Timescales of migmatization, metamorphism, and deformation in a collapsed orogenic plateau"
Advisors: Dr. Donna Whitney and Dr. Christian Teyssier

B.S. with honors: Geology, Spanish minor, Ohio University, 2000-2004
Thesis: "Timing constraints on the metamorphism and exhumation of ultra high-grade terranes, Sudete Mountains, NE Bohemian Massif"
Advisor: Dr. David Schneider

Universidad Pública de Pamplona, Pamplona, Spain, 2002
Study Abroad Experience, Spring

APPOINTMENTS

Professor, University of Nevada, Reno, 2021–current
Associate Professor, University of Nevada, Reno, 2016–2021
Assistant Professor, University of Nevada, Reno, 2010–2016
Assistant Researcher II, University of California, Santa Barbara, 2009-2010

HONORS AND AWARDS:

Berninsone Outstanding Service Award, 2023
Gledden Visiting Professor Fellowship – University of Western Australia, 2017
European Geosciences Union Division Outstanding Young Scientist Award for Tectonics and Structural Geology, 2014
Marie Tharp Fellowship, Lamont Doherty Earth Observatory, 2010

TEACHING EXPERIENCE:

Geol 101, General Geology, Introduction to the fundamental principles of geology: tectonics, oceans, atmosphere, resources, climate
Geol 212, Earth Materials, Petrology of major rock types, rock identification and classification, phase equilibria
Geol 426, Rock Forming Processes II, Phase relationships and rock geochemistry of igneous, metamorphic and sedimentary rocks, relationship of individual rock types and tectonics, thin section study
Geol 720, Modern Analytical Techniques in Earth Sciences, lecture-based graduate class providing overview of analytical instrumentation used to answer geoscience-related hypotheses and questions
Geol 733, Seminar-style graduate class. Two themes: "Linking Deep to Shallow Crustal Processes" and "The fate of subducted crustal material," Exploration of peer-reviewed research articles and presentations, field trip to Ruby–East Humboldt Range or the Franciscan Complex

ACADEMIC ADVISING

Alex Hoinville, MS, started Fall 2021
Luz Lim, MS, started Fall 2021
Danielle Ziva Shulaker, Postdoctoral Scholar, finished Fall 2020
Elizabeth Langdon-Lassagne, PhD, left Fall 2020
Emily Dektar, MS, completed degree Summer 2020

Ann Hunt, MS, completed degree Spring 2020
Kirsten Sauer, PhD, completed degree Fall 2017
Carolina Zamora, MS, completed degree Summer 2016
Joel DesOrmeau, PhD, completed degree Winter 2016
Kenjo Agustsson, MS, completed degree Summer 2014
Kate Zeiger, MS, completed degree Spring 2014

INVITED TALKS

Chinese Academy of Sciences, Beijing, 2023
China University of Geosciences, Beijing, 2023
Washington University - St. Louis, 2023
Washington State University, 2023
University of Kansas, 2021
Stanford University, 2020
Pomona College, 2019
UCLA, 2019
Texas Tech University, 2019
San Jose State, 2019
Curtin University, 2017
University of Western Australia, 2017 (both Department and Public Lecture)
Brown University, 2016
Brigham Young University, 2015
University of Maine, 2015
Washington State University, 2014
University of California, Davis, 2014
Department of Geology and Mines, Bhutan, 2014
University of Washington, 2013
University of Nevada, Las Vegas, 2013
San Jose State, 2011
University of Arizona, 2010
Woods Hole Oceanographic Institute, 2010
Lamont-Doherty Earth Observatory, 2009, 2010
California Institute of Technology, 2009
Syracuse University, 2009
Stanford University, 2009
University of California, Santa Barbara, 2008
University of California, Los Angeles, 2007
University of Southern California, 2007

GRANTS

Total funds to Gordon while a UNR employee: $3.75 M

19) NSF-Tectonics, 2023, "Conference: Participant support for a GSA Penrose conference on the North American Cordillera" PI: S. Gordon, $39,112
18) UNR VPRI Research Equipment grant, 2023, "Acquisition of a reflected light microscope system" PI: S. Gordon (50%), co-PIs: J. DesOrmeau (48%), P. Ruprecht (1%), W. Cao (1%), $48,164
17) NSF-Tectonics, 2022–2025, "How does mid to lower arc crust respond to the transition from subduction to collision? Investigation of the Gangdese orogen crustal section" PI: W. Cao (55% responsibility), co-PI: S. Gordon (45% responsibility), $449,746
16) Geological Society of America, 2022–2023, Penrose Conference award "Developing a new paradigm for the Late Cretaceous to Eocene North American Cordillera: a dominantly oblique plate boundary" PI: B. Tikoff (45% responsibility), co-PIs: S. Gordon (45% responsibility), E. Centeno-Garcia (5% responsibility), W. Matthews (5% responsibility), $20,000.
15) NSF-Tectonics, 2020–2023, "Collaborative Research: Burning down the house: investigating the relationships between magmatic 'flare-ups', crustal rheology, and arc collapse" PI: M. Eddy (33 % responsibility), co-PIs: S. Gordon (33 % responsibility), R. Miller (33 % responsibility); Gordon: $260,880.

14) NSF-Major Research Instrumentation, 2020–2022, "MRI: Acquisition of an electron probe microanalyzer for research and education in the mountain-west region" PI: S. Gordon (95% responsibility), co-PIs: P. Ruprecht (2% responsibility), J. LaCombe (1% responsibility); J. Muntean (1% responsibility); C. Jazwa (1% responsibility); Gordon: $1,349,010.
13) EDMAP, 2020, "Effects of a flare-up on continental magmatic arcs: insights from the structure and metamorphism of the east-central Skagit Gneiss Complex" PI: Gordon, Total Grant/Gordon: $16,428
12) EDMAP, 2019, "Burial of sedimentary rocks into the deep levels of the Cretaceous–Eocene North Cascades arc: insights from the structure and metamorphism of the northeastern Skagit Gneiss Complex" PI: Gordon, Total Grant/Gordon: $17,499
11) NSF-Petrology & Geochemistry, 2018–2020, "Collaborative Research: Record of UHP terrain exhumation preserved in shear zones of the Western Gneiss Region (Norway)" PI: Whitney, Co-PIs: Teyssier, Gordon; Total Grant: $505,630, Gordon: $220,375
10) UNR mICRo Grant, 2017, "Integrating numerical modeling, field study, and geochemical analysis to estimate magmatic sources feeding ancient volcanoes in the North Cascades Range, WA" PI: Cao, Co-PI: Gordon, Total Grant/Gordon: $4,670
9) Gledden Visiting Professor Fellowship, 2017, "Impact of Plate Tectonic Mass Redistributions upon the Evolution of Earth's Chemistry*"* PI: Gordon, Total grant/Gordon: $21,000 AUD
8) NSF-Petrology & Geochemistry, 2016–2018, "Evaluating the Role of Fluid and Melts in Mediating Element Recycling and Exhumation During Retrograde Metamorphism Following UHP Metamorphism" PI: Gordon, Total Grant/Gordon: $328,169
7) UNR VPRI Research Equipment grant, 2016, "Acquisition of a Precision Thin Section Cutting and Grinding Machine" PI: Gordon, Total grant/Gordon: $21,000
6) NSF-Tectonics, 2014-2016, "Incorporation of metasedimentary rocks into the deep levels of continental arcs: insights from the North Cascades" PI: Gordon, Co-PI: R. Miller; Total grant:$285,456, Gordon: $205,500
5) NSF-Tectonics, 2013–2015, "Did channel flow drive the thermo-mechanical evolution of the eastern Himalaya? A field-based test in northeast Bhutan" PI: S. Long, Co-PI: Gordon; Total Grant/Gordon&Long (combined budget, same institute): $392,960
4) EDMAP, 2013, "Structure of the Northwestern Skagit Gneiss Complex, Washington" PI: Gordon; Total grant/Gordon: $13,413
3) NSF-Tectonics, 2010-2013, "Melt-induced buoyancy: the driving force for fast UHP exhumation?" PI: Gordon; Total grant/Gordon: $285,547
2) Marie Tharp Fellowship, 2010: "A record of elemental recycling: geochemical investigation of Pamir xenoliths" Award to conduct research for 3 months at Lamont-Doherty Earth Observatory in collaboration with P. Kelemen; PI: Gordon; Total grant/Gordon: $29,858
1) NSF-Petrology and Geochemistry, 2010, "EAGER: Collaborative research: continental subduction and deep crustal melting" PI: Gordon Co-PIs: D. Whitney, C. Teyssier; Total grant: $55,428, Gordon: $28,917

PROFESSIONAL SOCIETIES

Geological Society of America
American Geophysical Union
European Geosciences Union
Mineralogical Society of America

SERVICE

Professional Service

- Co-Convener of a Penrose Conference, 2022–current
- Associate Editor: Geological Society of America Bulletin, 2021–current
- Contributor to N. Zentner Public Outreach YouTube videos, 2021–current
- Association for Women Geoscientists Distinguished Lecture series lecturer, 2011–current
- Contributor to NSF-funded StraboSpot field app development, 2019-current
- Chair of Sectional GSA Meeting for Cordilleran 2023 meeting in Reno, 2021–2023
- Chair of Sectional GSA Meeting for Cordilleran 2021 meeting in Reno, 2018–2021
- Co-leader of the StraboSpot Metamorphic Petrology Virtual Workshop, 2020
- Earthscope/NSF AGeS Grant Committee, 2016–2020

- NSF EAR Panel, 2019
- Convener GeoPRISMS Mini Workshop at National American Geophysical Union meeting, 2018
- Program Organizer, Centre for Exploration Targeting-University of Western Australia. Organized a seminar reading group entitled "Orogenies through time", 2017
- Leader of fieldtrip: “Incorporation of Metasedimentary rocks to deep arc levels”, 2017 GSA meeting
- Annual Geological Society of America Cordilleran meeting session organizer: 2019, 2020, 2021, 2022, 2023
- Annual Fall Geological Society of America session organizer, 2009, 2010, 2013, 2015, 2021
- Annual Fall American Geophysical Union session organizer, 2014, 2015, 2016, 2017, 2019
- Annual Fall European Geosciences Union session organizer, 2015
- GSA Research Grants Committee, 2012–2015
- Annual American Geophysical Union Meeting Poster Judge, 2014
- Annual Goldschmidt meeting continental crust theme organizer, 2012–2014
- Annual Goldschmidt meeting continental crust session organizer, 2011, 2013, 2014
- Reviewer of journal articles (G^3, Lithos, Journal of Metamorphic Geology, etc), 2008–current
- Reviewer of NSF proposals, 2010–current
- Reviewer of NSF postdoctoral proposal, 2019
- Reviewer of NSERC proposals, 2021

College Service

- College of Science Field Activities Committee, 2019
- College of Science Mousel-Feltner Excellence in Research Award Committee, 2018
- College of Science LeMay Teaching Award Committee, 2016
- Co-organizer of Mackay Coffee Hour, 2015
- Guest lecture in Sci120, 2012–2014
- College of Science Planning Committee member, 2013–2014

Department Service

- Acquisition of an electron microprobe instrument and setting up of the associated lab, 2020–current
- DEI committee member, 2020–current
- URGE Group Leader/Member, 2020–current
- SAGE Graduate Student Group advisor, 2019–current
- Department of Geological Sciences and Engineering Graduate Director, 2018–current
- Scanning Electron Microscope laboratory committee member, 2013–current
- WISE AWG UNR Chapter faculty advisor, 2020–2023
- Organization of UNR department seminar series, 2012–2014, 2019–2020
- Organizer, Tectonics Reading Group. (2016 - 2019)
- Admin 3 Search Committee member, 2018
- Faculty Search Committee member for Earth Surface Processes Assistant Professor position, 2017–2018
- Faculty Search Committee member for Geosciences Laboratory Manager position, 2017
- Undergraduate Curriculum Committee, 2010–2017
- Faculty Search Committee member for Tectonics Assistant Professor position, 2016
- Faculty Search Committee member for NBMG Structural Geology Assistant Professor position, 2016
- Addition of new graduate-level course (GEOL 733), 2015
- Igneous Petrology Search Committee Chair, 2014–2015
- Participant in meeting with companies and purchasing Scanning Electron Microscopes, 2013–2014
- Organization of Department retreat, 2014
- Organization of Department seminar series, 2012–2014
- Organization of WISE activities associated with seminar speakers, 2012–2014
- Organization of Geoscience (DGSE, NBMG, NSL) Fall picnic, 2012–2015
- Nevada Seismological Laboratory Personnel Committee member, 2013
- Geologic Engineering Search Committee member, 2012
- Initiator of regular Department seminar series with outside speakers, 2011

- Initiator of annual Geoscience unit Fall picnic, 2011

PUBLICATIONS:

*Student first-author publications; #Postdoc first-author publications

Papers

37) *Blatchford, H.J., Small, G.S., Newville, C.N., Teyssier, C., Whitney, D.L., Michels, Z.D., **Gordon**, S.M., and Kylander-Clark, A.R.C., in revision after review, Assessing the influence of deformation on Pb diffusion in titanite: petrochronological and microstructural investigation of a sheared pegmatite from the Roan Window, Norway: Earth and Planetary Science Letters.

36) #Shulaker, D.Z., **Gordon**, S.M., Hammerli, J., and DesOrmeau, J.W., in review, Fluid-driven element redistribution during retrograde metamorphism and exhumation of the UHP Western Gneiss Region terrane, Norway: Geochemistry, Geophysics, Geosystems.

35) *Hanson, A.E.H., **Gordon**, S.M., Ashley, K.T., Miller, R.B., and Langdon-Lassagne, E., 2021, Multiple sediment incorporation events in a continental magmatic arc: insight from the metasedimentary rocks of the northern North Cascades, Washington: Geosphere, doi:10.1130/GES02425.1.

34) *Osterle, J.E., Seward, D., Stockli, D.F., Little, T.A., Rooney, J.S., **Gordon**, S.M., Smith, E., and Gordon, K.C., 2021, The thermo-tectonic evolution of the actively exhuming Mai'iu Fault footwall – Suckling-Daymon metamorphic core complex – in the Woodlark Rift of Papua New Guinea: Tectonophysics, 811, doi:10.1016/j.tecto.2021.228856.

33) **Gordon**, S.M., Kirkland, C.L., Reddy, S.M., Blatchford, H.J., Whitney, D.L., Teyssier, C., Evans, N.J., and McDonald, B.J., 2021, Deformation-enhanced recrystallization of titanite drives decoupling in U-Pb and trace elements: Earth and Planetary Science Letters, 560, doi:10.1016/j.epsl.2021.116810.

32) *Yang, J., Cao, W., **Gordon**, S.M., and Chu, X., 2020, Does underthrusting crust feed magmatic flare-ups in continental arcs?: Geochemistry, Geophysics, Geosystems, doi:10.1029/2020GC009152.

31) *Starnes, J., Long, S., **Gordon**, S.M., Soignard, E., and Zhang, J., 2020, Using quartz fabric intensity parameters to delineate strain patterns across the Himalayan Main Central thrust: Journal of Structural Geology, doi:10.1016/j.jsg.2019.103941.

30) Long, S., Mullady, C., Starnes, J., **Gordon**, S.M., Larson, K., Pianowski, L., Miller, R., and Soignard, E., 2019, A structural model for the South Tibetan detachment system in northwestern Bhutan from integration of temperature, fabric, strain, and kinematic data: Lithosphere, doi: 10/1130/L1049.1.

29) *Sauer, K.B., **Gordon**, S.M., Miller, R.B., Jacobson, C.E., Grove, M., Vervoort, J.D., and Fisher, C.M., 2019, Deep-crustal metasedimentary rocks provide evidence for the 'Mojave–BC' hypothesis: Geology. 47, p. 99–102, doi:10.1130/G4554.1.

28) *DesOrmeau, J.W., **Gordon**, S.M., Little, T.A., Bowring, S.A., Schoene, B., Samperton, K.M., and Kylander-Clark, A.R.C., 2018, Using retrogressive overprinting to track the rapid exhumation of the Pliocene Papua New Guinea UHP terrane: Journal of Petrology, v. 59, p. 2017–2042, doi:10.1093/petrology/egy088.

27) *Sauer, K.B., **Gordon**, S.M., Miller, R.B., Vervoort, J.D., and Fisher, C.M., 2018, Provenance and metamorphism of the Swakane Gneiss: implications for incorporation of sediment into the deep levels of the North Cascades continental magmatic arc, Washington: Lithosphere, v. 10, p. 460–477, doi.org/10.1130/L712.1.

26) *Sauer, K.B., **Gordon**, S.M., Miller, R.B., Vervoort, J.D., and Fisher, C.M., 2017, Transfer of metasupracrustal rocks to mid to lower crustal depths in the North Cascades continental magmatic arc, Skagit Gneiss Complex, Washington: Tectonics, v. 36, https://doi.org/10.1002/2017TC004728

25) *Sauer, K.B., **Gordon**, S.M., Miller, R.B., Vervoort, J.D., and Fisher, C.M., 2017, Evolution of the Jura-Cretaceous North American Cordilleran margin: Insights from detrital zircon U-Pb and Hf isotopes of sedimentary units of the North Cascades Range, Washington: Geosphere, v. 13, p. 2094–2118.

24) *DesOrmeau, J.W., **Gordon**, S.M., Little, T.A., Bowring, S.A., and Chatterjee, N., 2017, Rapid time scale of Earth's youngest known ultrahigh-pressure metamorphic event, Papua New Guinea: Geology, v. 45, p. 795–798, doi:10.1130/G39296.1.

23) Long, S.P., **Gordon**, S.M., and Soignard, E., 2017, Distributed north-vergent shear and flattening through Greater and Tethyan Himalayan rocks: insights from metamorphic and strain data from the Dang Chu region, central Bhutan: Lithosphere, doi 10.1130/L655.1.

22) Long, S.P., **Gordon**, S.M., Young, J.P., and Soignard, E., 2016, Temperature and strain gradients through Lesser Himalayan rocks and across the Main Central thrust, south-central Bhutan: implications for transport-parallel stretching and inverted metamorphism: Tectonics, doi:10.1002/2016TC004242.

21) *Agustsson, K.S., **Gordon**, S.M., Long, S.P., Seward, G.G.E., Zeiger, K., and Penfold, M., 2016, Pressure–temperature–structural distance relationships within Greater Himalayan rocks in eastern Bhutan: implications for emplacement models: Journal of Metamorphic Geology, doi:10.1111/jmg.12197.

20) Miller, R.B., **Gordon**, S.M., Bowring, S.A., Doran, B., McLean, N., Michels, Z., Shea, E., and Whitney, D.L., 2016, Linking deep to shallow crustal processes in an exhumed continental arc, North Cascades, Washington: Geosphere, v. 12, 900–924.

19) **Gordon**, S.M., Whitney, D.L., Teyssier, C., Fossen, H., and Kylander-Clark, A., 2016, Geochronology and geochemistry of zircon from the northern Western Gneiss Region: Insights into the Caledonian tectonic history of western Norway: Lithos, v. 246–247, 134–148.

18) *DesOrmeau, J.W., **Gordon**, S.M., Kylander-Clark, A., Hacker, B.R., Bowring, S.A., Schoene, B., and Samperton, K.M., 2015, Insights into (U)HP metamorphism of the Western Gneiss Region, Norway: a high-spatial resolution and high-precision zircon study: Chemical Geology, v. 414, 138–155.

17) *Zeiger, K., **Gordon**, S.M., Long, S.P., Kylander-Clark, A.R.C., Agustsson, K., and Penfold, M., 2015, Timing and conditions of metamorphism and melt crystallization in Greater Himalayan rocks, eastern and central Bhutan: insight from U-Pb zircon and monazite geochronology and trace-element analyses: Contributions to Mineralogy and Petrology, v.169, doi:10.1007/s00410-015-1143-6.

16) *Renedo, R., Nachlas, W.O., Whitney, D.L., Teyssier, C., Piazolo, S., **Gordon**, S.M., and Fossen, H., 2015, Fabric development during exhumation from ultrahigh-pressure in an eclogite-bearing shear zone, Western Gneiss Region, Norway: Journal of Structural Geology, v. 71, p. 58–70.

15) *DesOrmeau, J.W., **Gordon**, S.M., Little, T.A., and Bowring, S.A., 2014, Tracking the exhumation of a Pliocene (U)HP terrane: U-Pb and trace-element constraints from zircon, D'Entrecasteaux Islands, Papua New Guinea: Geochemistry, Geophysics, Geosystems, v. 15, p. 3945–3964.

14) **Gordon**, S.M., Whitney, D.L., Teyssier, C., and Fossen, H., 2013, U-Pb dates and trace-element geochemistry of zircon from migmatite, Western Gneiss Region, Norway: significance for history of partial melting in continental subduction: Lithos, v. 170–171, p. 35–53.

13) Rioux, M., Bowring, S., Kelemen, P., **Gordon**, S., Miller, R., and Dudás, F., 2013, Tectonic development of the Samail ophiolite: high precision U-Pb zircon geochronology of crustal growth and ophiolite emplacement: Journal of Geophysical Research, v. 118, p. 2085–2101.

12) **Gordon**, S.M., Little, T.A., Hacker, B.R., Bowring, S.A., Korchinski, M., Baldwin, S.L., and Kylander-Clark, A.R.C., 2012, Multi-stage exhumation of young UHP–HP rocks: timescales of melt crystallization in

the D'Entrecasteaux Islands, southeastern Papua New Guinea: Earth and Planetary Science Letters, v. 351, p. 237–246.

11) **Gordon**, S.M., Luffi, P., Hacker, B.R., Valley, J., Spicuzza, M., Kozdon, R., Kelemen, P., Ratshbacher, L., and Minaev, V., 2012, The thermal structure of continental crust in active orogens: insight from Miocene eclogite and granulite xenoliths of the Pamir Mountains: Journal of Metamorphic Geology, v. 30, p. 413–434.

10) Rioux, M., Bowring, S., Kelemen, P., **Gordon**, S., Dudás, F., and Miller, R., 2012, Rapid crustal accretion and magma assimilation in the Oman–U.A.E. ophiolite: high precision U-Pb zircon geochronology of the gabbroic crust: Journal of Geophysical Research, v. 117, doi:10.1029/2012JB009273.

9) Little, T.A., Hacker, B.R., **Gordon**, S.M., Baldwin, S.L., Fitzgerald, P.G., Ellis, S., and Korchinski, M., 2011, Diapiric exhumation of Earth's youngest (UHP) eclogites in the gneiss domes of the D'Entrecasteaux Islands, Papua New Guinea: Tectonophysics, v. 510, p. 39–68.

8) **Gordon**, S.M., Whitney, D.L., Miller, R.B., McLean, N., and Seaton, N.C.A., 2010, Metamorphism and deformation at different structural levels in a strike-slip fault zone, Ross Lake fault, North Cascades, USA: Journal of Metamorphic Geology, v. 28, p. 117–136.

7) **Gordon**, S.M., Bowring, S.A., Whitney, D.L., Miller, R.B., and McLean, N., 2010, Timescales of metamorphism, deformation, and crustal melting in a continental arc, North Cascades USA: Geological Society of America Bulletin, doi: 10.1130/B30060.1.

6) **Gordon**, S.M., Grove, M., Whitney, D.L., Schmitt, A.K., and Teyssier, C., 2009, Fluid-rock interaction in orogenic crust tracked by zircon depth profiling: Geology, v. 37, p. 735-738.

5) **Gordon**, S.M., Grove, M., Whitney, D.L., Schmitt, A.K., and Teyssier, C., 2009, Time-temperature-fluid evolution of migmatite dome crystallization: coupled U-Pb age, Ti thermometry, and O isotopic ion microprobe depth profiling of zircon and monazite: Chemical Geology, v. 262, p. 186-201.

4) **Gordon**, S.M., Whitney, D.L., Teyssier, C., Grove, M., and Dunlap, W.J., 2008, Timescales of migmatization, melt crystallization, and cooling in a Cordilleran gneiss dome, the Valhalla complex, southeastern British Columbia: Tectonics, v. 27, TC4010, doi:10.1029/2007TC002103.

3) Hirschmann, M.M., Ghiorso, M.S., Davis, F.A., **Gordon**, S.M., Mukherjee, S., Grove, T.L., Krawczynski, M., Medard, E., and Till, C.B., 2008, Library of Experimental Phase Relations (LEPR): A database and web portal for experimental magmatic phase equilibria data: Geochemistry Geophysics Geosystems, v.9, Q03011, doi:10.1029/2007GC001894.

2) Schneider, D.A., Zahniser, S., Glascock, J., **Gordon**, S.M., and Manecki, M., 2006, Thermochronology of the West Sudetes (Bohemian Massif): rapid and repeated eduction in the eastern Variscides, Poland and Czech Republic: American Journal of Science, v. 306, p. 846-874.

1) **Gordon**, S.M., Schneider, D.A., Manecki, M., and Holm, D.K., 2005, Exhumation and metamorphism of an ultrahigh-grade terrane: geochronometric investigations of the Sudete Mountains (Bohemia), Poland and Czech Republic: Journal of the Geological Society, London, v.162, p. 841-855.

Other Peer Reviewed Publications

Gordon, S.M., Miller, R.B., and Sauer, K.B., 2017, Incorporation of sedimentary rocks into the deep levels of continental magmatic arcs: links between the North Cascades arc and surrounding sedimentary terranes. *In*: Haugerud, R.A., and Kelsey, H.M., (eds.) *From the Puget Lowland to East of the Cascade Range: Geologic Excursions in the Pacific Northwest.* Geological Society of America Field Guide 49, p. 101-141, doi:10.1130/2017.0049(06).

Miller, R.B., **Gordon**, S.M., Bowring, S.A., Doran, B.A., McLean, N.M., Michels, Z.D., Shea, E.K., Whitney, D.L., Wintzer, N.E., and Mendoza, M.K., 2009, Linking deep and shallow crustal processes in an exhumed continental arc, North Cascades, Washington. *In*: O'Connor, J.E., Dorsey, R.J., and Madin, I.P. (eds.) *Volcanoes to vineyards: geologic field trips through the dynamic landscape of the Pacific Northwest.* Geological Society of America Field Guide 15, p. 373-406.

Abstracts (for the last ten years)

Hoinville, A.R., **Gordon**, S.M., and Miller, R.B., 2023, Structure and age of orthogneisses within the east-central Skagit Gneiss Complex; insights into the magmatic evolution of the North Cascades arc: Geological Society of America Abstracts with Programs, v. 55, n. 4, doi: 10.1130/abs/2023CD-387541.

Wegener, J., and **Gordon**, S.M., 2023, Structure of the south-central Skagit Gneiss Complex: implications for transient weakness in the mid-crust of a continental magmatic arc: Geological Soceity of America Abstracts with Programs, v. 55, n. 4, doi: 10.1130/abs/2023CD-387180.

Miller, R.B., **Gordon**, S., and Eddy, M.P., 2023, Interval between regional mid-Cretacous contraction and Eocene transtension in the North Cascades segment of the Coast Mountains batholith: insights and questions: Geological Soceity of America Abstracts with Programs, v. 55, n. 4, doi: 10.1130/abs/2023CD-387623.

Levy, D., **Gordon**, S.M., and Zuza, A., 2022, Migmatite remobilization during episodic magmatic-metamorphic events: Eos Trans. AGU, v. 103, Fall Meet. Suppl. Abstract V53A-06.

Blatchford, H., Whitney, D.L., Teyssier, C., **Gordon**, S.M., Dektar, E., and Kylander-Clark, A.R., 2022, Detailed P-T-t-d exhumation history recorded by shear zone-hosted titanite, rutile, and quartz from the Western Gneiss Region, Norway: Eos Trans. AGU, v. 103, Fall Meet. Suppl. Abstract V55A-01.

Miller, R.B., Eddy, M., and **Gordon**, S.M., 2022, What happens to large displacements on Paleogene strike-slip faults in central British Columbia and Alaska to the south?: Geological Society of America Abstracts with Programs, v. 54, doi:10.1130/abs/2022-AM-382628

Gordon, S.M., Miller, R.B., Eddy, M., Kylander-Clark, A.R.C., and Langdon-Lassagne, E., 2022, Tracking the collapse and exhumation of a continental magmatic arc: the record from zircon depth profiling analyses of North Cascades metasedimentary rocks: Geological Society of America Abstracts with Programs, v. 54, doi:10.1130/abs/2022-AM-380806

Levy, D., **Gordon**, S.M., Zuza, A.V., and Kylander-Clark, A.R., 2022, Deciphering the Cenozoic development of the Ruby-East Humboldt metamorphic core complex using monazite, titanite, and allanite petrochronology: Geological Society of America Abstracts with Programs, v. 54, doi:10.1130/abs/2022CD-374399

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