

# Michael P. Eddy

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Purdue University  
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## Professional Appointments

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Assistant Professor – Purdue University	2019-present
Postdoctoral Research Associate – Princeton University	2016-2019

## Education

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### **Massachusetts Institute of Technology**, Cambridge MA

Ph.D., Geology, January 2017

Thesis: “High-resolution temporal records of magmatism, sedimentation, and faulting at evolving plate boundaries”

Advisers: Samuel A. Bowring and Oliver Jagoutz

### **Princeton University**, Princeton, NJ

B.A., Geosciences, May 2011

Thesis: “U-Pb Geochronology from the Pimple Hills near Ogdensburg, NJ: implications for the tectonic history of the Losee-Wanaque Composite Arc”

Adviser: Blair Schoene

## Teaching Experience

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Professor: EAPS 100: Planet Earth – Purdue University	F2019
Laboratory Instructor: Natural Disasters – Princeton University	S2017
Teaching Assistant: Terrascope – MIT	F2015
Teaching Assistant: Analytical Techniques in Geochemistry – MIT	S2015
Teaching Assistant: Terrascope – MIT	F2014
Teaching Assistant: Earth, Energy, and the Environment – MIT	F2013
Teaching Assistant: Structural Geology – MIT	F2012

## Awards and Honors

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Excellence in Teaching Award – MIT	2016
Bruce L. “Biff” Reed Scholarship Award – GSA	2015
Kerr Fellowship – MIT	2011
Arthur F. Buddington Award – Princeton University	2011
Phi Beta Kappa	2011
Cum laude academic honors – Princeton University	2011
Member of All-American 4x400m relay team – Princeton University	2011
Varsity Track and Field Team Captain – Princeton University	2009-2011

## Publications

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- Chambers, M, Memeti, V, **Eddy, MP**, and Schoene, B, *in review*, Half a million years of magmatic history recorded in a K-feldspar megacryst of the Tuolumne Intrusive Complex, California: *Geology*
- MacLennan, SA, **Eddy, MP**, Merschat, AJ, Mehra, AK, Crockford, P, Maloof, AC, Southworth, CS, and Schoene, B, *in revision*, Geologic evidence for an icehouse Earth prior to the Sturtian global glaciation: *Science Advances*
- Tasistro-Hart, A, Maloof, AC, Schoene, B, and **Eddy, MP**, *in revision*, Astronomically forced hydrology of the Late Cretaceous sub-tropical Potosí basin, Bolivia, *GSA Bulletin*.
- Schoene, B., **Eddy, MP**, Samperton, KM, Keller, CB, Keller, G, Adatte, T, and Khadri, SFR, 2019, U-Pb constraints on pulsed eruption of the Deccan Traps across the end-Cretaceous mass extinction: *Science*, v. 363, p. 862-866, doi: 10.1126/science.aau2422.
- Eddy, MP**, Ibañez-Mejia, M, Burgess, SD, Coble, MA, Cordani, UG, DesOrmeau, JW, Gehrels, GE, Li, X, MacLennan, S, Pecha, M, Sato, K, Schoene, B, Valenica, VA, Vervoort, JD, and Wang, T, 2019, GHR1 - a new Eocene natural reference material for in situ U-Pb Geochronology and Hf isotopic analysis of zircon: *Geostandards and Geoanalytical Research*, v. 43, p. 113-132, doi: doi.org/10.1111/ggr.12246.
- Kant, LB, Tepper, JH, **Eddy, MP**, and Nelson, BK, 2018, Eocene Basalt of Summit Creek: slab breakoff magmatism in central Washington, Cascades, USA: *Lithosphere*, v. 10, p. 792-805, doi: doi.org/10.1130/L731.1.
- Eddy, MP**, Umhoefer, PJ, Miller, RB, Donaghy, EE, Gunderson, M, and Senes, FI, 2017, Sedimentary, volcanic, and structural processes during triple-junction migration: insights from the Paleogene record in central Washington, *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*, v. 49, p. 143-174, doi: 10.1130/2017.0049(07).
- Eddy, MP**, Clark, KP, Polenz, M, 2017, Age and Volcanic Stratigraphy of Siletzia in Washington and Vancouver Island: *Lithosphere*, v. 9, p. 652-664, doi: 10.1130/L650.1.
- Eddy, MP**, Jagoutz, O, Ibañez-Mejia, M, 2017, Timing of initial seafloor spreading in the Newfoundland-Iberia rift: *Geology*, v. 45, p. 527-530, doi: 10.1130/G38766.1.
- Bucholz, CE, **Eddy, MP**, Jagoutz, O, Bowring, SA, Schmidt, MW, Sambuu, O., 2017, Constraining the timescales of magmatic differentiation with U-Pb zircon geochronology: *Geology*, v. 45, p. 11-14, doi: 10.1130/G38505.1.
- Eddy, MP**, Bowring, SA, Miller, RB, Tepper, JF, 2016, Rapid assembly and crystallization of a fossil, large-volume, silicic magma chamber: *Geology*, v. 44, p. 331-334, doi: 10.1130/G37631.1.
- Eddy, MP**, Bowring, SA, Umhoefer, PJ, Miller, RB, McLean, NM, Donaghy, EE, 2016, High-resolution temporal and stratigraphic record of Siletzia's accretion and ridge-trench interaction from

- nonmarine sedimentary basins in central and western Washington: *GSA Bulletin*, v. 128, p. 425-441, doi: 10.1130/B31335.1.
- Dragovich, JD, Mahan, SA, Anderson, ML, MacDonald Jr., JH, Schilter, JF, Frattali, CL, Koger, CJ, Smith, DT, Stoker, BA, DuFrane, SA, **Eddy, MP**, Cakir, R, and Sauer, KB, Geologic map of the Lake Roesiger 7.5-minute quadrangle, Snohomish County, Washington: Washington Division of Geology and Earth Resources Map Series 2015-01, 1 sheet, scale 1:24,000, 47 p. text.
- Bindi, L, Yao, N, Lin, C., Hollister, LS, Andronicos, CL, Distler, VV, **Eddy, MP**, Kostin, A, Kryachko, V, MacPherson, GJ, Steinhardt, WM, Yudovskaya, M, Steinhardt, PJ, 2015, Decagonite,  $Al_{71}Ni_{24}Fe_5$ , a quasicrystal with decagonal symmetry from the Khatyrka CV3 carbonaceous chondrite: *American Mineralogist*, v. 100, p. 2340-2343, doi: 10.2138/am-2015-5423.
- Bindi, L, Yao, N, Lin, C, Hollister, LS, Andronicos CL, Distler, VV, **Eddy, MP**, Kostin, A, Kryachko, V., MacPherson, GJ, Steinhardt, WM, Yudovskaya, M., Steinhardt, PJ., 2015, Natural quasicrystal with decagonal symmetry: *Scientific Reports*, v. 5, doi: 10.1038/srep09111.
- Schoene, B, Samperton, KM, **Eddy, MP**, Keller, G, Adatte, T, Bowring, SA, Khadri, SFR, Gertsch, B., 2015, U-Pb geochronology of the Deccan Traps and relation to the end-Cretaceous mass extinction: *Science*, v. 347, p. 182-184, doi: 10.1126/science.aaa0118.
- Bindi, L, Yao, N, Lin, C, Hollister, LS, MacPherson, GJ, Poirier, GR, Andronicos, CL, Distler, VV, **Eddy, MP**, Kostin, A, Kryachko, V., Steinhardt, WM, Yudovskaya, M., 2014, Steinhardtite, a new body-centered-cubic allotropic form of aluminum from the Khatyrka CV3 carbonaceous chondrite: *American Mineralogist*, v.99, p. 2433-2436, doi:10.2138/am-2014-5108.
- Ibañez-Mejia, M., Gehrels, GE, Ruiz, J. Vervoort, JD, **Eddy, MP**, Li, C., 2014, Small-volume baddeleyite ( $ZrO_2$ ) U-Pb geochronology and Lu-Hf isotope geochemistry by LA-ICP-MS: techniques and applications: *Chemical Geology*, v. 384, p. 149-167, doi: 10.1016/j.chemgeo.2014.07.011.
- Hollister, LS, Bindi, L, Yao, N, Poirier, GR, Andronicos, CL, MacPherson, GJ, Lin, C, Distler, VV, **Eddy, MP**, Kostin, A, Kryachko, V, Steinhardt, WM, Yudovskaya, M., Eiler, JM, Guan, Y, Clarke, JJ, Steinhardt, PJ, 2014, Impact-induced shock and the formation of natural quasicrystals in the early solar system: *Nature Communications*, v. 5, doi: 10.1038/ncomms5040.
- MacPherson, GJ, Andronicos, CL, Bindi, L, Distler, VV, **Eddy, MP**, Eiler, JM, Guan, Y, Hollister, LS, Kostin, A, Kryachko, V., Steinhardt, WM, Yudovskaya, M, Steinhardt, PJ, 2013, Khatyrka: a new CV3 find from the Koryak Mountains, eastern Russia: *Meteoritics and Planetary Science*, v. 48, p. 1499-1514, doi: 10.1111/maps.12170.
- Maloof, AC, Porter, SM, Moore, JL, Dudas, F., Bowring, SA, Higgins, JA, Fike, DA, **Eddy, MP**, 2010, The earliest Cambrian record of animals and ocean geochemical change: *GSA Bulletin*, v. 122, p. 1731-1774, doi: 10.1130/B30346.1.

## Meeting Abstracts

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- Eddy, MP**, Pamukcu, AS, Schoene, B, and Steiner-Leach, TL, 2019, Chemostratigraphic evidence for differentiation within the Miocene Searchlight pluton, Nevada, USA: *Geological Society of America Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-336830.

- Schaen, A, Schoene, B, Singer, BS, Dufek, J, **Eddy, MP**, Jicha, BR, and Cottle, JM, 2019, Short duration of rhyolite melt extraction from petrochronologic meddling within a young Andean pluton: *Geological Society of America Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-338905.
- Memeti, V, Chambers, M, **Eddy, MP**, and Schoene, B, 2019, Protracted magmatic K-feldspar megacryst growth revealed with CA-ID-TIMS-TEA U-Pb zircon geochronology in the Tuolumne intrusive complex, California: *Geological Society of America Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-340901.
- Eddy, MP**, Schoene, B, Samperton, KM, Keller, G, Adatte, T, and Khadri, SFR, 2019, U-Pb zircon geochronology of the southern Malwa Plateau basalt: Deccan Traps, India: *Geological Society of America Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-336734.
- Schoene, B, Keller, CB, **Eddy, MP**, Samperton, KM, Keller, G, Adatte, T, and Khadri, S., 2019, Assessing the Deccan Traps eruption record from geochronology and evaluating the relationship to the K-Pg boundary: *Geological Society of America Abstracts with Programs*, v. 51, n. 5, doi: 10.1130/abs/2019AM-340943
- Eddy, MP**, Mehra, A, Pamukçu, A, DesOrmeau, JW, Schoene, B, and Maloof, AC, 2018, Using geochemical and textural evidence to assess crystal-liquid separation in a fossil large, silicic magma chamber: Abstract V33D-0270 presented at 2018 Fall Meeting, AGU, Washington, D.C., 10-14 Dec.
- Chambers, M, Memeti, V, **Eddy, MP**, Schoene, B, and Paterson, S, 2018, Magma mush bodies and crystal recycling constrained by zircon dates from cores and rims of K-feldspar megacrysts from the Tuolumne Intrusive Complex, *Geological Society of America Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-324711.
- Eddy, MP**, Pamukçu, AS, Schoene, B, and Miller, C, 2018, Temporal record of volcanism and plutonism in the Miocene Searchlight Magmatic System (Nevada, USA): *Geological Society of America Abstracts with Programs*, v. 50, n. 6, doi: 10.1130/abs/2018AM-324975.
- Schoene, B, **Eddy, MP**, Samperton, KM, Keller, G, Adatte, T, and Khadri, SFR, 2018, The tempo of the Deccan Traps flood basalts relative to the end Cretaceous Mass Extinction: *Goldschmidt Abstracts*, 2018.
- Lewis, M, Bucholz, CE, Jagoutz, OE, **Eddy, MP**, 2017, Petrology and Geochemistry of an Upper Crustal Mafic Complex- Hidden Lakes, Sierra Nevada Batholith, California: Abstract V24D-02 presented at 2017 AGU Fall Meeting, New Orleans, L.A., 12-15 Dec.
- Eddy, MP**, and Ibanez-Mejia, M, 2017, GHR1 – A new Eocene natural reference material for U-Pb and Hf isotopic measurements in zircon: Abstract V13B-2343 presented at 2017 AGU Fall Meeting, New Orleans, L.A., 12-15 Dec.
- Tasistro-Hart, A, Maloof, AC, Schoene, B, and **Eddy, MP**, 2017, Astronomically Forced Hydrology of the Late Cretaceous Sub-tropical Potosí Basin, Bolivia: Abstract PP33C-2340 presented at 2017 AGU Fall Meeting, New Orleans, L.A., 12-15 Dec.

- Ibanez-Mejia, M, DesOrmeau, JW, **Eddy, MP**, Kitajima, K, and Valley, JW, 2017, The oxygen isotope composition of baddeleyite and a test of crystal orientation effects during SIMS analysis: Abstract V43C-2694 presented at 2017 AGU Fall Meeting, New Orleans, L.A., 12-15 Dec.
- DesOrmeau, JW, Ibanez-Mejia, M, Lafuente, BV, **Eddy, MP**, Trail, D, and Wang, Y, 2017, Testing the crystalline integrity of baddeleyite: a systematic EBSD and confocal laser-Raman spectroscopy study: Abstract V13B-2341 presented at 2017 AGU Fall Meeting, New Orleans, L.A., 12-15 Dec.
- Eddy, MP**, 2017, Evidence for the Siletzia Terrane's origin as a ridge-centered oceanic plateau: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-301568.
- Eddy, MP**, and Ibañez-Mejia, M, 2017, GHR1 – A new Eocene natural reference material for U-Pb and Hf isotopic measurements in zircon: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-301574.
- Tepper, JH, and **Eddy, MP**, 2017, The cause(s) of widespread Eocene magmatism in the Pacific Northwest: insights from geochemistry and geochronology of igneous rocks in Washington: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-301043.
- Umhoefer, PJ, Donaghy, EE, **Eddy, MP**, and Miller, RB, 2017, Stratigraphic record of the middle Eocene fault-bend, strike-slip Chumstick basin, central Washington: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-306166.
- Dragovich, JD, Tepper, JH, MacDonald, JH, DuFrane, SA, Anderson, ML, Koger, CJ, Mavor, S, Thompson, GT, and **Eddy, MP**, 2017, Granite Falls stock and the Hansen Lake rhyolite – a history of syn-tectonic Eocene magmatism and uplift in the Pilchuck River valley during regional transtension, Snohomish County, Washington: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-303468.
- Miller, RB, Bryant, K, Doran, B, **Eddy, MP**, Sylva, N, Raviola, F, and Umhoefer, PJ, 2017, Eocene transtension and strain patterns from dike swarms and strike-slip faults in the Washington Cascades: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-299858.
- Schoene, B, Cottle, J, and **Eddy, MP**, 2017, Speed dating!: sampling and applications for U-Th-Pb geochronology: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-305394.
- Umhoefer, PJ, **Eddy, MP**, Miller, RB, Tepper, JH, and Skinner, LA, 2017, Upper plate response to ridge and plateau subduction, Washington Cascades, USA: Implications for plate tectonic evolution of the Pacific Northwest: *Geological Society of America Abstracts with Programs*, v.49, n. 6, doi: 10.1130/abs/2017AM-306118.
- Schoene, B, Samperton, KM, **Eddy, MP**, Keller, G, Adatte, T, and Khadri, SFR, 2017, Toward a high-resolution age model for the Deccan Traps by U-Pb zircon geochronology: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-305419.
- Adatte, T, Keller, G, Font, E, Bitchong, AM, Schoene, B, Samperton, KM, **Eddy, MP**, 2017, Near coincidence of maximum Deccan volcanism with the Cretaceous-Paleogene boundary revealed

by mercury anomalies: *Geological Society of America Abstracts with Programs*, v. 49, n. 6, doi: 10.1130/abs/2017AM-302876.

- Keller, G, Adatte, T, Spangenberg, JE, Mateo, P, Punekar, J, Schoene, B, Samperton, KM, and **Eddy, MP**, 2017, Mercury stratigraphy of Deccan Trap volcanism in marine sediments linked to climate change, biotic turnover, end-Cretaceous mass extinction, and delayed recovery: *Geological Society of America Abstracts with Programs*, v. 49, n.6, doi: 10.1130/abs/2017AM-303559.
- Eddy, MP**, 2016, Assessing *in situ* crystal-liquid separation in a fossil, large-volume, silicic, magma reservoir: Abstract V41E-01 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Tsukui, K, Ramezani, J, Zhu, M, Maloof, AC, Porter, S, Moore, J, **Eddy, MP**, Bowring, SA, 2016, High-precision temporal calibration of the early Cambrian biotic and paleoenvironmental records: new U-Pb geochronology from eastern Yunnan, China: Abstract PP31A-2260 presented at 2016 Fall Meeting, AGU, San Francisco, Calif., 12-16 Dec.
- Eddy, MP**, Clark, KP, and Polenz, M, 2016, Volcanic stratigraphy and tectonic setting of the Siletzia large igneous province in Washington and Vancouver Island: *Geological Society of America Abstracts with Programs*, v. 48, n7.
- Eddy, MP**, Bowring, SA, Tepper, JF, Miller, RB, 2015, Extremely High Magma Emplacement Rates Recorded in the Golden Horn Batholith, WA: Abstract V34B-04 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- Kant, L, Tepper, JF, **Eddy, MP**, 2015, Basalt of Summit Creek: Eocene magmatism associated with Farallon slab break off: Abstract V23C-03 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- Bucholz, CB, **Eddy, MP**, Jagoutz, O, Bowring, SA, 2015, Constraining timescales of magmatic differentiation with U-Pb zircon geochronology: Abstract V32B-06 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- Eddy, MP**, Jagoutz, O, 2015, Temporal record of magmatism during the rift to drift transition along the Newfoundland-Iberia conjugate margins: *Geological Society of America Abstracts with Programs*, v. 47, n. 7, p. 864.
- Umhoefer, PJ, Skinner, LA, Miller, RB, **Eddy, MP**, Bowring, SA, 2015, Eocene paleogeography of the Washington-Vancouver Island region during strike-slip faulting before and after a major 50 Ma transition: *Geological Society of America Abstracts with programs*, v. 47, n. 7, p. 444.
- Jagoutz, O, Bailey, E, Weiss, BP, **Eddy, MP**, Royden, LH, Tikoo, SM, 2015, New paleomagnetic results from Ladakh, western Himalaya support multi-stage collision scenario between India and Eurasia, *Geological Society of America Abstracts with Programs*, v. 47, n. 7, p. 39.
- Eddy, MP**, Bowring, SA, Umhoefer, PJ, Miller, RB, 2015, Precise temporal constraints on Eocene strike-slip faulting in Washington and its relationship to triple-junction migration and terrane transport: *Geological Society of America Abstracts with Programs*, v. 47, n. 4, p. 51.

- Miller, RB, **Eddy, MP**, Gordon, SM, Umhoefer, PJ, Sauer, K, 2015, Strike-slip in the southern Coast Mountains – Cascades Orogen: the Ross Lake fault system and implications for “Baja BC”: *Geological Society of America Abstracts with Programs*, v. 47, n. 4, p. 50.
- Schoene, B, Samperton, KS, **Eddy, MP**, Keller, G, Adatte, T, Bowring, SA, Khadri, SFR, Gertsch, B, 2015, U-Pb geochronology of the Deccan Traps and relation to the end-Cretaceous mass extinction: *Geophysical Research Abstracts*, v. 17, EGU2015, 8455, EGU General Assembly 2015.
- Eddy, MP**, Bowring, SA, Umhoefer, PJ, Miller, RB, McLean, NM, Donaghy, EE, 2014, Paleogene basin evolution in the Pacific Northwest: a window into ridge-trench interaction: *Geological Society of America Abstracts with Programs*, v. 46, n. 6, p. 34.
- Umhoefer, PJ, **Eddy, MP**, Miller, RB, Bowring, SA, Donaghy, EE, 2014, Major changes in early Eocene faulting and basins in central Washington: *Geological Society of America Abstracts with Programs*, v. 46, n. 6, p. 34.
- Tepper, JH, **Eddy, MP**, Nelson, BK, 2014, Origin and tectonic implications of the Eocene Golden Horn Batholith: a unique “A-Type” granite in the North Cascades, Washington: *Geological Society of America Abstracts with Programs*, v. 46, n. 6, p. 34.
- Eddy, MP**, Bowring, SA, Miller, RB, Tepper, JH, 2014, Rapid Emplacement of the Golden Horn Batholith: North Cascades, WA: *Geological Society of America Abstracts with Programs*, v. 46, n. 5, p. 75.
- Miller, RB, Gordon, SM, Bowring, SA, Whitney, DL, **Eddy, MP**, Fenning, NF, 2014, Crustal flow and a comparison of the Eocene evolution of the North Cascades Crystalline Core and Eocene metamorphic core complexes to the east: *Geological Society of America Abstracts with Programs*, v. 46, n. 5, p. 5.

## Invited Talks

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California Institute of Technology – Department Seminar	February 2020
GSA Fall Meeting – Session T107	September 2019
Yale University – Special Seminar	May 2019
Purdue University – Department Seminar	February 2018
City College of New York – Department Seminar	November 2017
AGU Fall Meeting – Session V036	December 2016
Johns Hopkins University – Bromery Lecture	October 2016
University of Rochester – Department Seminar	September 2016
UC Davis – Department Seminar & Special Seminar	March 2016
Harvard – BISSEPS Lecture	November 2015

## Research Grants

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- 2018, August: NSF EAR-1830937, Title: *Collaborative Research: How are Rhyolites Generated? Evaluating Models for the Volcanic-plutonic Connection in the Searchlight Magmatic System, Nevada*, Amount: \$328,736 (Co-written with B. Schoene while a postdoctoral associate)

2015, April: GSA Student Research Grant, Title: *Testing the origin of the Siletzia LIP using high-precision U-Pb zircon geochronology*, Amount: \$2,500

## Field Experience

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Deccan Traps, India – Sampling for U-Pb geochronology	2013, 2016, 2018, 2019
North Cascades, WA –Tectonics/Petrology/Mapping	2012, 2013, 2014, 2016, 2017
Eldorado Mountains, NV – Petrology/Mapping	2017, 2019
Olympic Peninsula, WA – Tectonics	2014, 2015
Mojave, CA – Mapping/Tectonics	2012
Chukotka, Russia – Mapping	2011
Pimple Hills, NJ – Mapping	2010
Katmai, AK – Field Volcanology School	2009

## University and Professional Service

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Chaired Session T232 at the 2017 GSA Annual Meeting	2017
Planned and Led Field Trip 423 at the 2017 GSA Annual Meeting	2017
Academic Fellow Princeton Men’s Varsity Track and Field Team	2016, 2017, 2018, 2019
Outside Reviewer for NSF	2017
Outside Reviewer for Geology	2017
Outside Reviewer for Lithosphere	2016, 2018
Outside Reviewer for Contributions to Mineralogy and Petrology	2015