

Dr. Jesse R. Reimink

(Updated Feb. 2, 2026)

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Department of Geosciences
The Pennsylvania State University
University Park, PA, 16802, USA

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Phone: 1-814-865-6666

POSITIONS:

2025-present	Associate Professor of Geoscience, The Pennsylvania State University
2024-present	Director, Energy Transition Entrepreneurship and Innovation Cluster, College of Earth and Mineral Sciences, The Pennsylvania State University
2023-present	Rudy L. Slingerland Early Career Professor of Geoscience, The Pennsylvania State University
2019-2025	Assistant Professor, Department of Geosciences, The Pennsylvania State University
2015-2019	Postdoctoral Fellow, Department of Terrestrial Magnetism, Carnegie Institution for Science

EDUCATION:

2011-2015	PhD student, Department of Earth and Atmospheric Sciences, University of Alberta: <i>Defended with no revisions, October 26, 2015</i>
2010-2011	MSc student, Department of Earth and Atmospheric Sciences, University of Alberta: <i>Upgraded to PhD program prior to completion of MSc</i>
2005-2009	Bachelor of Science; Hope College, Holland, Michigan, USA <i>Geology Major with a Biology Minor</i>

RESEARCH CONTRIBUTIONS:

FUNDING OBTAINED (Total NSF = \$1,843,997):

- NSF-CAREER, CAREER: Is Continental Crust Juvenile or Reworked? A Test of Growth Models Using the Extant Neoproterozoic Granitoid Record (Sole PI, \$903,320) 2022-2027
- NSF-EAR, Mesoproterozoic diamond-bearing sediments: implications for Archean continental roots and their surface expression. (Sole PI, EAR-CH-2118161 \$385,650) 2021-2023
- NSF-I&F, Collaborative Proposal: Development of a high-efficiency mass spectrometer: transitioning a high-efficiency ion source to a modern mass spectrometer (Lead-PI, EAR-IF-2017252 \$46,019)
PIs – Jesse Reimink and Rick Carlson 2020-2021
- NSF-I&F, Development of a Simplified Cavity Thermal Ionization Source for Geosciences (Co-PI, EAR-IF-1758571 \$177,199)
PIs – Rick Carlson and Jesse Reimink 2018-2019
- NSF-OCE, Exploration of the Earliest Crust Forming Events on Earth
Grant proposal based on Reimink's Carnegie Fellowship proposal (named Postdoc, OCE-1524384, \$331,899)
PIs – Richard Carlson and Steven Shirey 2015-2018

University of Alberta:

- Circumpolar/Alberta Boreal Research Grant
Northern fieldwork support grant, \$4500 2011

Hope College:

- Michigan Space Grant Consortium Undergraduate Fellowship
undergraduate summer research grant, \$5000 2008
- Michigan Space Grant Consortium Undergraduate Fellowship
undergraduate summer research grant, \$5000 2007

PEER REVIEWED PUBLICATIONS: [Google Scholar Link](#)

⁺denotes co-first authors listed alphabetically, *denotes student or postdoc author

In Prep

42. Beckman, R.*, Rezeau, H., Schoonover, E.*, Feineman, M., & **Reimink, J.** "Magmatic outgassing recorded in zircon dark zones related to porphyry system development," *Economic Geology*, in prep
41. Schoonover, E.*, Mittal, T., Garber, J., Ackerson, M., Carley, T. H., Flowers, R., Fonseca Teixeira, L., Riox, M., & **Reimink, J.** "Not your average zircon – assessing geochemical variability across igneous compositions," *Earth and Planetary Science Letters* in prep
40. Mifflin, M. *, Schoonover, E. *, Beckman, R. *, White, E. *, & **Reimink, J.** "Discordance and Destruction: A look into the Applications of Discordance Dating in Zircons for Bolide Impacts, *Geochemistry, Geophysics, Geosystems*, in prep
39. Changleng, R*., Stoian, C.*, Pearson, DG., Lou, Y., **Reimink, J.R.**, Evidence For a Widespread Eoarchean Terrain in the Slave Craton, *Nature Geoscience*, in prep
38. Droubi, O.H., Bonamici, CE, Bauer, AM, Garber, JM, Nachlas, WO, Tappa, MJ, **Reimink, J.R.**, The Neoarchean-Paleoproterozoic tectonic transition in Laurentia: insights from the Watersmeet gneiss dome, MI, USA, *Precambrian Research*, in prep
37. Changleng, R.*, Pezzaro, A., Pearson, D.G., Stern, R.A., Stachel, T., **Reimink, J.R.**, Mesoarchean diamonds record horizontal tectonics, *Earth and Planetary Science Letters*, in prep
36. White, E.M.,* Pearson, D.G., Lou, Y., **Reimink, J.R.**, Isotope geochemistry of Neoarchean Granitoids from the Slave craton, *Precambrian Research*, in prep

2025

35. Beaudry, P., Jagoutz, O., Bauer, A.M. Rezeau, **J.R. Reimink**, T.L. Grove, G. Izon, S. Ono, Major-element, trace-element and sulfur-isotope evidence for arc-like magmatism in the 4.0–2.9 Ga Acasta Gneiss Complex. *Contrib Mineral Petrol* 180, 61 (2025). <https://doi.org/10.1007/s00410-025-02254-0>
34. Droubi, O. K., Bauer, A. M., Bonamici, C., Nachlas, W. O., Garber, J. M., Tappa, M. J., & **Reimink, J. R.** (2025). Eoarchean–Paleoproterozoic tectonothermal history of the Acasta Gneiss Complex constrained by titanite and apatite petrochronology. *Geochemistry, Geophysics, Geosystems*, 26, e2025GC012294. <https://doi.org/10.1029/2025GC012294>
33. Greber, N. D., Murphy, M. E., Storck, J. C., **Reimink, J. R.**, Dauphas, N., & Savage, P. S. (2025). Silicon isotopic signatures of granitoids support increased weathering of subaerial land 3.7 billion years ago. *Communications Earth & Environment*, 6(1), 382.

32. **Reimink, J.R.**, Beckman, R.* , Lloyd, M., Schoonover, E.J. *, Garber, J.M., Davies, JHFL., Perrot, M., Smye, A.J., Cerminaro, A.* , Discordance Dating: a New Approach for Dating Pb-loss Events, *Geochronology*, 7 (3) 369-385

2024

31. Schoonover, E.J.* , Ackerson, M., Garber, J.M., Smye, A.J., **Reimink, J.R.**, Zircon geochemistry reveals melt evolution in the Tuolumne Intrusive Complex, *Earth and Planetary Science Letters*, in press
30. Buryak, SD; Reyes, AV; West, CK; Jensen, BFL; DuFrane, SA; Davies, JHFL; Luo, Y; Galloway, JM; Siver, PA; Westgate, JA; **Reimink, JR**; Pearson, DG; Wolfe, AP, Tephra zircon U-Pb geochronology of kimberlite maar sedimentary fills in subarctic Canada: Implications for Eocene paleoclimate and Late Cretaceous paleogeography *GSA Bulletin*, 2024
<https://pubs.geoscienceworld.org/gsabulletin/issue/136/9-10>
29. Cipar, JH., Smye, AJ., Garber, JM., Kylander-Clark, A., **Reimink, J.R.**, Thinning and heating of Laramide lower crust recorded by zircon petrochronology, *G-Cubed*, 2024
<http://dx.doi.org/10.1029/2023GC011177>
28. O'Neil J, Rizo H, **Reimink J.R.**, Garçon M, Carlson RW (2024) Earth's earliest crust. *Elements* 20: 168-173, doi: 10.2138/gselements.20.3.168
27. **Reimink, J.R.**; Smye, A.J., Subaerial Weathering Drove Stabilization of Continents, *Nature*, 629 (8012), 609-615
26. Soares, G.G.* , Garber, J.M., House, C.H., **Reimink, J.R.**, Extracting meaningful environmental and age information from a c. 2.4-2.2 Ga peritidal phosphorite: the Turee Creek Group, Western Australia, *Geochemistry, Geophysics, Geosystems*, accepted

2023

25. **Reimink, J.R.**; Chacko, T; Geological Sampling in *Treatise of Geochemistry, Third Edition, 8 Volume Set, V8: 73-V8: 96*
24. **Reimink, J.R.**; Davies, J.H.F.L.; Pearson, D.G.; Moyon, J.F.; A Whole-Lithosphere View on the Growth of Continents, in press, *Geochemical Perspectives Letters*.
23. Droubi, O.M., Bauer, A.M, Bonamici, C., Nachlas, W.O, Tappa, M.J., Garber, J.M., **Reimink, J.R.** U-Th-Pb and Trace Element Evaluation of Existing Titanite and Apatite LA-ICP-MS Reference Materials and Determination of $^{208}\text{Pb}/^{232}\text{Th}$ - $^{206}\text{Pb}/^{238}\text{U}$ Date Discordance in Archean Accessory Phases, *Geostandards and Geoanalytical Research*, 47 (2) 337-369
<https://doi.org/10.1111/ggr.12488>
22. **Reimink, J.R.**, Crow, C., Moser, D., Jacobsen, B., Bauer, A. and Chacko, T., 2023. Quantifying the effect of late bombardment on terrestrial zircons. *Earth and Planetary Science Letters*, 604, p.118007.
21. Rasmussen, K. L., Falck, H., Elongo, V., **Reimink, J.R.**, Luo, Y., Pearson, D.G., Ootes, L., Creaser, R.A., Lecumberri-Sanchez, P.; The source of tungsten-associated magmas in the northern Canadian Cordillera and implications for the basement. *Geology* 2023;; 51 (7): 657–662.

2022

20. Timmerman, S., **Reimink, J.R.**, Vezinet A, Nestola F, Banas A, Stachel T, RA Stern, Y Luo, C Sarkar, Ielpi, A., C Mircea, V Jackson, DG Pearson. Mesoarchean diamonds formed in thickened lithosphere, caused by slab-stacking *Earth and Planetary Science Letters* 2022
<https://doi.org/10.1016/j.epsl.2022.117633>
19. Bilak GS*, Niemetz K, **Reimink JR**, Reyes AV, Chacko T, Dufrane SA, Belosevic M, Ketchum JWF, 2022 Evaluating the Age Distribution of Exposed Crust in the Acasta Gneiss Complex Using

Detrital Zircons in Pleistocene Eskers, *Geochemistry, Geophysics, and Geosystems*, 2022
<https://doi.org/10.1029/2022GC010380>

18. Reyes AV, Carlson AE, Milne GA, Tarasov L, **Reimink JR**, Caffee MW. 2022. Revised chronology of northwest Laurentide ice-sheet deglaciation from ^{10}Be exposure ages on boulder erratics. *Quaternary Science Reviews* 277: 107369 (7 p.). <https://doi.org/10.1016/j.quascirev.2021.107369>

2021

17. **Reimink, J.R.**, Davies, J.H.F.L., Ielpi, A., Global zircon analysis records a gradual rise of continental crust throughout the Neoproterozoic, *Earth and Planetary Science Letters*, 54, 116654
<https://doi.org/10.1016/j.epsl.2020.116654>

2020

16. Aarons, S.M., **Reimink, J.R.**, Greber, N.D., Heard, A.W., Zhang, Z., and Dauphas, N., Titanium isotopes constrain a magmatic transition at the Hadean-Archean boundary in the Acasta Gneiss Complex, *Science Advances*, 6, no. 50 <https://doi.org/10.1126/sciadv.abc9959>
15. **Reimink, J. R.**, Carlson, R. W. & Mock, T. D. A cavity ion source for high-ionization efficiency neodymium isotope-ratio analyses in the geosciences. *J. Anal. At. Spectrom.* 35, 2337–2350 (2020). <https://doi.org/10.1039/D0JA00228C>
14. **Reimink, J.R.**, Mundl-Petermeier, A., Carlson, R.W., Shirey, S.B., Walker, R.J., Pearson, D.G., 2020. Tungsten Isotope Composition of Archean Crustal Reservoirs and Implications for Terrestrial $\mu^{182}\text{W}$ Evolution. *Geochemistry, Geophysics, Geosystems* 21, <https://doi.org/10.1029/2020GC009155>
13. ⁺Bauer, A.M., ⁺**Reimink, J.R.**, Chacko, T., Foley, B.J., Shirey, S.B., Pearson, D.G., Zircon evidence for the progressive onset of mobile-lid tectonics, *Geochemical Perspectives Letters* (2020) 14, 1-6 <https://doi.org/10.7185/geochemlet.2015>
12. **Reimink, J.R.**, Davies, J.H.F.L., Bauer, A.M., Chacko, T., A comparison between zircon from the Acasta Gneiss Complex and the Jack Hills region, *Earth and Planetary Science Letters* (2020) 531, 115975 <https://doi-org/10.1016/j.epsl.2019.115975>

2019

11. Carlson, R.W., Garçon, M., O'Neil, J., **Reimink, J.R.**, and Rizo, H., The Nature of Earth's First Crust. *Chemical Geology* (2019) 530, 119321. <https://doi-org/10.1016/j.chemgeo.2019.119321>
10. **Reimink, J.R.**, Pearson, D.G., Shirey, S.B., Carlson, R.W., Ketchum, J.F.W., Onset of new, progressive crustal growth in the central Slave craton at 3.5 Ga. *Geochemical Perspectives Letters* (2019) 10, 8–13. <https://doi.org/10.7185/geochemlet.1907>

2018

9. Davies, J.H.F.L., Sheldrake, T., **Reimink, J.R.**, Wotzlaw, J.F., Möck, C., Finlay, A.J., Isochrons revisited: a new mixture model approach. *Geochemistry, Geophysics, and Geosystems*. (2018) 19, 4025–4047 <http://dx.doi.org/10.1029/2018GC007548>
8. **Reimink, J.R.**, Bauer, A.M., Chacko, T., *Invited Review*: Chapter 15: The Acasta Gneiss Complex, in *Earth's Oldest Rocks, Vol. 2*, eds. V Bennett, M. Van Kranendonk, and J.E. Hofmann. Springer, (2018).
7. Mundl, A., Walker, R.J., **Reimink, J.R.**, Rudnick, R.L., Gaschnig, R.M., Temporal evolution of ^{182}W in the Upper Continental Crust. *Chemical Geology* (2018) 494, 144–152
<https://doi.org/10.1016/j.chemgeo.2018.07.036>
6. **Reimink, J.R.**, Chacko, T., Carlson, R.W., Shirey, S.B., Liu, J., Stern, R.A., Bauer, A.M., Pearson, D.G., Heaman, L.M., Petrogenesis and tectonics of the Acasta Gneiss Complex derived from

integrated petrology and ^{142}Nd and ^{182}W extinct nuclide-geochemistry. *Earth and Planetary Science Letters* (2018) **494**, 12–22, <https://doi.org/10.1016/j.epsl.2018.04.047>

Pre-2017

5. **Reimink, J.R.**, Davies, J.H.F.L., Chacko, T., Stern, R.A., Heaman, L.M., Pearson, D.G., Sarkar, C., Schaltegger, U., Creaser, R.A. No evidence for Hadean continents within Earth's oldest known zircon-bearing rock unit. *Nature Geoscience* (2016) **9**, 777–780, <https://doi.org/10.1038/ngeo2786>
4. **Reimink, J.R.**, Chacko, T., Stern, R.A., Heaman, L.M. The birth of a cratonic nucleus: lithogeochemical evolution of the 4.02–2.94 Ga Acasta Gneiss Complex. *Precambrian Research* (2016) **281**, 453–472, <https://doi.org/10.1016/j.precamres.2016.06.007>
3. **Reimink, J.R.**, Davies, J.H.F.L., Waldron, J.W.F., Rojas, X.D. Dealing with discordance: a novel approach for analyzing detrital zircon U-Pb datasets. *Journal of the Geological Society* (2016) **17**, 577–585, <https://doi.org/10.1144/jgs2015-114>
2. **Reimink, J. R.**, Chacko, T., Stern, R. A. & Heaman, L. M. Earth's earliest evolved crust generated in an Iceland-like setting. *Nature Geoscience* (2014) **7**, 529–533, <https://doi.org/10.1038/ngeo2170>
1. Hansen, E; **Reimink, JR**; Harlov, D. Titaniferous accessory minerals in very low-grade metamorphic rocks, Keweenaw Peninsula Michigan, USA. *Lithos* (2010) **116**, 167–174, <https://doi.org/10.1016/j.lithos.2010.02.001>

OTHER PUBLICATIONS:

10. **Reimink, J.R.**; Bolhuis, C.; 2025, The Geology of the Battle of Gettysburg, Audio short series self-published in the [CampGeo App in the App Store](#)
9. **Reimink, J.R.**; Bolhuis, C.; 2025, The Long Valley Caldera, Audio short series self-published in the [CampGeo App in the App Store](#)
8. **Reimink, J.R.**; Bolhuis, C.; 2025, The Geology of the Grand Tetons, Audio short series self-published in the [CampGeo App in the App Store](#)
7. **Reimink, J.R.**; Bolhuis, C.; 2023, Earth's Climate, Audio short series self-published in the [CampGeo App in the App Store](#)
6. **Reimink, J.R.**; Bolhuis, C.; 2023, Geology of The Grand Canyon National Park, Self-published audiobook available in the [CampGeo App in the App Store](#)
5. **Reimink, J.R.**; Bolhuis, C.; 2023, The Geology of Yellowstone National Park, Self-published audiobook available in the [CampGeo App in the App Store](#)
4. **Reimink, J.R.**, The crystal timekeeper zircon, *Nature Geoscience, All Minerals Considered*, invited, in press
3. **Reimink, J.R.**; Bolhuis, C.; 2022 **campGEO, a conversational textbook** for Physical Geology. Founder and co-author of an audio textbook for Introductory Geoscience students. Available now in the [CampGeo App in the App Store](#)
2. Davies, J.H.F.L., **Reimink, J.R.**, Earth's rock-solid connections between Canada and Australia contain clues about the origin of life. *The Conversation*, June 17, 2020 <https://theconversation.com/earths-rock-solid-connections-between-canada-and-australia-contain-clues-about-the-origin-of-life-130380>
1. Bowring, S., Chacko, T., Heaman, L.H., **Reimink, J.R.** Acasta Gneiss Complex, in *Encyclopedia of Scientific Dating Methods*, eds. WJ Rink and J Thompson. Springer, 2015.

HONORS, AWARDS AND SCHOLARSHIPS:

- Potter Lecturer – Dickinson College Department of Geoscience

2025

- Distinguished Alumni Hall of Fame Inductee
Hudsonville High School Education Foundation 2024
- Fellow – Society of Economic Geologists 2024
- College of Earth and Mineral Sciences Robertson
Breakthrough of the Year Award 2024
- Rudy L. Slingerland Early Career Professor 2023-2025
- Internal Packard Fellowship Nominee – *Penn State University* 2022
- Department of Terrestrial Magnetism – *Carnegie Institution for Science* 2015
- Young Author of the Year Award – *Journal of the Geological Society* 2016
- Foundation Scholarship, *Mineralogical Association of Canada* (PhD) 2014 (\$5000)
- Mary-Claire Ward Geoscience Award, *Geological Association of
Canada and Prospector's & Developer's Association of Canada* 2015 (\$5000)
- Student talk award – *Northwest Territories Geoscience Forum* 2014 (\$1000)
- Faculty of Science Dean's Excellence Award – *University of Alberta* 2015 (\$9000)
- Mary Louise Imrie Graduate Student Travel Award – *University of Alberta* 2015 (\$1300)
- Outstanding Teaching Assistant Award – *University of Alberta* 2014
- Evelyn Wigham PhD Scholarship in Geology – *University of Alberta* 2014 (\$1800)
- GL Cumming Memorial Graduate Scholarship – *University of Alberta* 2014 (\$2500)
- Christopher Scarfe Memorial Graduate Scholarship – *University of Alberta* 2012 (\$1700)
- Otto Vander Velde All-Campus Award – *Hope College* 2009
- Presidential Scholarship – *Hope College* 2005-2009
- Reinking Memorial Scholarship – *Hope College* 2008-2009
- MI Byrd Honors Scholarship – *Hope College* 2005-2007
- NCAA Division III First Team All-American, Men's Basketball – *Hope College* 2009
- Michael Visser Memorial Book Award – GES Department – *Hope College* 2008
- Faculty Book Award – GES Department – *Hope College* 2007
- Ancient Mystic Order of the Trilobite Award – GES Department – *Hope College* 2006
- Science Award – Hudsonville High School 2005

SERVICE AND OUTREACH CONTRIBUTIONS:

SCIENTIFIC SERVICE ACTIVITIES:

Reviewer (~15-17 papers/yr, 4-5 grants/year):

- Nature, Nature Communications, Nature Geoscience, Science, Science Advances, Geology, Geochemical Perspectives Letters, Earth and Planetary Science Letters, Geochemistry/Geophysics/Geosystems, Geochimica et Cosmochimica Acta, Gondwana Research, Chemical Geology, Precambrian Research, Lithos, Terra Nova
- NSF Postdoctoral Fellowship Program, NSF EAR Program, Swiss National Science Foundation
- Independent Reviewer - U.S. Department of Energy's Office of Defense Nuclear Nonproliferation R&D (TIMS nanoPIEs and High Efficiency Automatable TIMS Sources projects) Aug, 2022

Committee Service:

- Department P&T Committee 2025-present
- PSU Society of Economic Geologist Student Chapter Faculty Advisor 2024-present
- Department Head Search Committee, Penn State Geosciences 2023-2024
- Planetary Sciences Search Committee, Penn State Geosciences 2022
- Strategic Hiring Committee Member, Penn State Geosciences 2021
- Departmental Executive Committee Member, Penn State Geosciences 2020-2021
- Graduate Entrance Committee, Penn State Geosciences 2019-2022
- LIME Advisory Committee, Penn State Geosciences 2020-2023

- Carnegie Institute Postdoctoral Association Representative 2017-2018
- Talk Series Coordinator, EAS graduate student society 2012-2014
- Geology Representative, EAS graduate student society 2011

Memberships:

- Society of Economic Geologists - Fellow
- American Geophysical Union
- Geochemical Society
- Mineralogical Society of American
- European Association of Geochemistry

Session Convener:

- Goldschmidt 2018, 2019, 2021, 2022
- American Geophysical Union Fall Meeting, 2016-2018
- American Geophysical Union Fall Meeting, 2017
- European Geophysical Union Spring Meeting, 2017
- American Geophysical Union Fall Meeting, 2016

SCIENCE OUTREACH:

- Co-host; PLANETGEO Podcast, 2020-present
www.planetgeocast.com
 - Served as co-host, editor, producer
 - Co-host with former high school teacher
 - >250 episodes produced
 - >1 million total downloads
 - >30 interviews with top Geoscience professionals
 - Ranked #1 Teacher Science Podcast (Feedspot)
- The Village Science Lecture Series – State College, PA Sept. 2024
- Science Pub Speaker: Big Spring Spirits, Bellefonte, PA, Feb. 2022
- The Conversation article co-written about our *EPSL* paper, July 2020
 - <https://theconversation.com/earths-rock-solid-connections-between-canada-and-australia-contain-clues-about-the-origin-of-life-130380>
- Highlighted by Geochemical Society's *Meet the Geochemist*, Dec. 2018
- Interviewed Roadhouse Radio (Vancouver) about *Nature Geoscience* paper, Sept. 2016
- Smithsonian Museum docent teaching, Radiometric Dating Techniques, June 2016
- Kamloops Exploration Group Lecture Series, 2015 (invited) Feb. 2015
- Interviewed on CBC Radio Show *Quirks and Quarks* with Bob McDonald about *Nature Geoscience* paper <http://www.cbc.ca/quirks/episode/2014/05/31/2014-05-31/>
- Guest Lecturer, Hudsonville High School Geology, 2011–present;
Two lectures on Radiogenic Isotope Geology and Careers in Geology

TEACHING AND SUPERVISING CONTRIBUTIONS:

SUPERVISING:

The Pennsylvania State University:

- Supervisor, Maddie Miffin, BSc Research Student 2025-present
- Supervisor, Michael Ludwikowski, BSc Research Student 2025-present
- Supervisor, Andrew Sutton, BSc Research Student 2025-present
- Supervisor, Abigail Weininger, BSc Research Student 2022-present
- Supervisor, Renan Beckman, PhD Student 2024-present
- Supervisor, Rory Changleng, PhD Student (UGF Awardee) 2022-present

• Supervisor, Emily White, PhD Student	2022-present
• Supervisor, Erik Schoonover, PhD Student (Smithsonian Fellow)	2021-present
• Supervisor, Niles Williams, BSc Research Student	2024-2025
• Supervisor, Sydney McCarthy, BSc Research Student	2022-2024
• Supervisor, Renan Beckman, BSc Research Student	2022-2023
• Supervisor, Alex Cerminaro, BSc Research Student	2022-2024
• Supervisor, Cristy Stoian, MSc student	2020-2023
• Supervisor, Social Media Intern, PSU Bellisario College of Communications 1 student/year	2021-2024

University of Alberta:

• Mentor, Grayson Bilak-University of Alberta MSc student	2017-2019
• Co-supervisor; Mike Belosevic EA427 Directed Study	2013

TEACHING:

The Pennsylvania State University:

• Instructor, Entrepreneurial Geoscience (GEOSC497)	2023-present
• Instructor, Solid Earth Isotope Geochemistry (GEOSC 518E)	2021-present
• Instructor, Introduction to Isotope Geochemistry (GEOSC 518A)	2021-present
• Instructor, Physical Geology (GEOSC 001)	2020-present
• Instructor, Geology Field Camp (GEOSC 472)	2022
• Instructor, Early Earth and Solar System (GEOSC 497)	2021-2023
• Instructor, Introduction to Field Geology (GEOSC 470)	2020
• Instructor, Earth Materials (GEOSC 201)	2020
• Instructor, Evolution of the Crust (GEOSC 497)	2019

University of Alberta:

• Instructor, Precambrian Geology (EA432)	2014
• Guest Lecturer, Precambrian Geology (EA432)	2012-2013
• Guest Lecturer, Geochemistry (EA320)	2013
• Teaching Assistant, Igneous Petrology (EA331)	2011-2013
• Teaching Assistant, Metamorphic Petrology (EA332)	2012-2014
• Teaching Assistant, Advanced Geology Field School (EA333)	2011-2014
• Teaching Assistant, Mineralogy II (EA232)	2011
• Teaching Assistant, Mineralogy I (EA224)	2010

INVITED TALKS:

EarthTalk Critical Minerals Series, Penn State	Nov. 2025
UNC Chapel Hill, Departmental Colloquium	Oct. 2025
UCLA, Departmental Colloquium	Nov. 2024
UC Berkeley, Departmental Colloquium	Oct. 2024
Gordon Conference – Deep Earth	Jun. 2023
Lafayette College, Departmental Colloquium	Apr. 2023
Purdue University, Departmental Colloquium	Feb. 2023
American Geophysical Union Fall Meeting,	Dec. 2022
Virtual Seminar for Precambrian Geology Series (VSPG),	Sept. 2022
Cornell University, Departmental Colloquium,	Mar. 2022
University of Colorado, Boulder, Departmental Seminar,	Sept. 2021
University of Regina, Geoscience Department Weekly Seminar,	Apr. 2021

Harvard University, EPS Departmental Colloquium Series,	Oct. 2020
Laurentian University, Departmental Colloquium Series,	Oct. 2020
University of Florida, Department of Geological Sciences, (<i>Canceled due to Covid19</i>)	Mar. 2020
Geological Survey of Canada Logan Club Talk Series,	Oct. 2019
American Museum of Natural History, Earth and Planetary Sciences,	Apr. 2019
Yale University, Departmental Colloquium,	Mar. 2019
University of British Columbia, EOAS Seminar,	Jan. 2019
Simon Fraser University, Departmental Seminar,	Jan. 2019
Keynote, Northwest Territories Geoscience Forum,	Nov. 2018
Smithsonian Institution Department of Mineral Sciences,	Oct. 2018
University of Ottawa Seminar Series,	Nov. 2016
University of Quebec at Montreal Seminar Series,	Nov. 2016
MIT Geochemistry Colloquium,	Oct. 2016
University of Maryland Geochemistry Colloquium	Oct. 2016
Carnegie DTM Weekly Seminar	Feb. 2016

PUBLIC SCIENCE TALKS:

Big Springs Distillery Science Pub Night,	April 2022
Virtual Seminar for Precambrian Geology Series (VSPG),	Sept. 2022
George Mason University Observatory's <i>Evening Under the Stars</i> Public Lecture Series	Apr. 2017

LEADERSHIP POSITIONS:

The Pennsylvania State University:

- Director, Energy Transition Entrepreneurship and Innovation Cluster 2024-present
- Co-Director, LionChron Analytical Facility 2020-present

Carnegie Institution for Science:

- Geochemistry/Geophysics Seminar Organizer 2016
- DTM/GL Postdoctoral Association representative 2016

University of Alberta:

- Weekly Seminar Coordinator, EAS 2012-2014
- Geology Representative, EAS graduate student society 2011

Hope College:

- Team-Elected Captain, Men's Basketball 2007-2009

ATHLETIC ACCOMPLISHMENTS:

Professional Basketball Experience:

- Edmonton Energy – International Basketball League 2014
- Holland Blast – International Basketball League 2009-2010

Hope College:

- Men's Basketball NCAA DIII All-American 2009
- MIAA Conference MVP 2009
- NCAA All-Region Team 2009

RECENT CONFERENCE PRESENTATIONS:

*denotes student/postdoc author

- Chowdhury, W., Ackerson, M., **Reimink, J.** & Neil, B. (December 2025). "Zircons from new lithologies in the Acasta Gneiss Complex, Slave Craton.," AGU, American Geophysical Union, New Orleans, published in proceedings, Accepted. International.
- Beckman, R. *, Rezeau, H., Schoonover, E. *, Feineman, M., & **Reimink, J.** (October 2025). "Exploring zircon dark zones through cathodoluminescence and trace elements: New insights from the Ruby Star Granodiorite, Arizona," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Schoonover, E. *, Mittal, T., Garber, J., Ackerson, M., Carley, T. H., Flowers, R., Fonseca Teixeira, L., Riox, M., & **Reimink, J.** (October 2025). "Not your average zircon – assessing geochemical variability across igneous compositions," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Reimink, J.** Beckman, R., Schoonover, E., Lloyd, M., Garber, J., Davies, J. H., Cerminaro, A., Perrot, M., & Smye, A. (October 2025). "Using discordance to date in situ geological events in the sedimentary record – a test from the Alta contact aureole," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Mifflin, M. *, Schoonover, E. *, Beckman, R. *, White, E. *, & **Reimink, J.** (October 2025). "Discordance and Destruction: A look into the Applications of Discordance Dating in Zircons for Bolide Impacts," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Sutton, A. *, Schoonover, E. *, Williams, N. *, Feineman, M., & **Reimink, J.** (October 2025). "Hydrothermal zircon geochronology from the Nechalacho REE deposit, NWT, Canada," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Weiner, A. *, Changleng, R. *, Schoonover, E. *, & **Reimink, J.** (October 2025). "Mapping Archean Crust: Esker Zircon Geochronology in the Under-explored NW Slave Province," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Ludwikoski, M. *, Beckman, R. *, Schoonover, E. *, Bradley, D., & **Reimink, J.** (October 2025). "U-Pb, Trace Element, and Textual Characterization of Zircon from Western Maine LCT Pegmatites," GSA Connects, Geological Society of America, San Antonio, published in proceedings, Accepted. International.
- Reimink, J.R.**, Chacko, T., The Statistics of Geological Sampling Revisited, Goldschmidt, Chicago, Illinois, 2024 *Poster*
- Reimink, J.R.**, Smye, A.J., Contentintal Emergence as a Driver of Cratonization, Goldschmidt, Chicago, Illinois, *Talk*
- Schoonover, E. *, Ackerson, M., Garber, J., Smye, A., Kylander-Clark, A., **Reimink, J.**, Classifying complex igneous rocks from zircon depth profiling using multivariate approaches Goldschmidt, Chicago, Illinois, 2024 *Poster*
- Smye, A.J., **Reimink, J.R.**, Differentiation of continental crust by ultrahigh-temperature metamorphism, Goldschmidt, Chicago, Illinois, *Talk*
- Bindeman, I.N., Kutyrev, A., **Reimink, J.R.**, O'Neil, J., Rizo, H., Using Earliest Outcrops of Earth's Crust to Monitor Early Earth Conditions: Triple Oxygen Isotope Perspective Coupled with Detailed Geological Investigation, Goldschmidt, Chicago, Illinois, *Talk*
- Schoonover, E. *, Ackerson, M., Garber, J., Smye, A., Kylander-Clark, A., **Reimink, J.**, GSA Connects, "An explicit solution for magmatic TiO₂ activity from tandem zircon and titanite thermometry," Geological Society of America, Pittsburgh, PA, USA. (October 17, 2023).
- Changleng, R. *, Pearson, D. G., Stern, R., Pezzera, A., **Reimink, J.**, GSA Connects, "NEW MESOARCHAEAN DETRITAL DIAMONDS TEST SLAB-STACKING MODEL FOR ARCHAEOAN CRATONIC KEEL FORMATION," Geological Society of America, Pittsburgh, PA, USA. (October 17, 2023).
- Schoonover, E. *, Ackerson, M., Garber, J., Smye, A., Kylander-Clark, A., **Reimink, J.**, Hutton 10th symposium on granites and related rocks, "An explicit solution for magmatic TiO₂ activity from

- tandem zircon and titanite thermometry," Hutton Institute, Baveno Italy, (September 12, 2023).
- Soares, G.*, Garber, J., House, C. H., **Reimink, J.**, Goldschmidt, "A perspective on life and its environment(s) during the Great Oxygenation Event from apatite and dolomite petrochronology of microbialites: the 2.4-2.2 Ga Turee Creek Group, Western Australia," The Geochemical Society, Lyon, France. (July 12, 2023).
- Kubota, Y., Foley, B., **Reimink, J.**, Lu, Q., AGU Fall Meeting, "One-dimensional numerical simulation of the Hadean crust formation with Hf Isotopes constraints," American Geophysical Union, San Francisco, CA, USA. (December 14, 2023).
- White, E.*, **Reimink, J.**, Pearson, D. G., Lou, Y., Stern, R., Davis, W., AGU Fall Meeting, "Recycling or reworking of ancient crust – insights from zircon U-Pb-Hf-O isotope data in the Slave Province (Canada)," American Geophysical Union, San Francisco, CA, USA. (December 14, 2023).
- Bauer, A., Mixon, E., Blum, T., Tappa, M., **Reimink, J.**, AGU Fall Meeting, "The Acasta Gneiss Complex, Canada, as a Cornerstone for Early Tectonic Models," American Geophysical Union, San Francisco, CA, USA. (December 11, 2023).
- Beckman, R.*, Schoonover, E., Cerminaro, A., Garber, J., Lloyd, M., **Reimink, J.**, GSA Connects, "DATING SEDIMENTARY REACTIVE FLUID FLOW USING ZIRCON," Geological Society of America, Pittsburgh, PA, USA. (October 15, 2023).
- Cerminaro, A.*, Schoonover, E., Garber, J., Mrozek, S., **Reimink, J.**, Beckman, R., GSA Connects, "GEOCHRONOLOGICAL DATING OF HYDROTHERMAL FLUID FLOW IN DETRITAL ZIRCONS," Geological Society of America, Pittsburgh, PA, USA. (October 15, 2023).
- Reimink, J.**, North Central Geological Society of America, "An Educational Partnership for Advancing the Stature of the Geosciences in the Public Sphere," Geological Society of America, Grand Rapids Michigan. (May 4, 2023).
- Bauer, A., Mixon, E., Tappa, M., **Reimink, J.**, Goldschmidt, "Reevaluation of the highly contested Nd isotope record of the 4.0-2.9 Ga Acasta Gneiss Complex, Canada," The Geochemical Society, Lyon. (July 10, 2023).
- Reimink, J.**, North Central Geological Society of America, "The Birth of Cratons - a Research Career Inspired by Chris Bolhuis," Geological Society of America, Grand Rapids Michigan. (May 5, 2023).
- Reimink, J.** (Author and Presenter), Smye, A.J. (December 2022). "Tectonic Controls on Cratonization," AGU Fall Meeting, *Invited*.
- Soares, G., Garber, J. M., **Reimink, J.**, & House, C. (October 2022). "In-situ Petrochronology and Trace-Element Geochemistry of Apatite: A Useful Deep-Time Indicator of Depositional Environment," Geological Society of America Annual Meeting.
- Greber, N., Aarons, S., Dauphas, N., Savage, P. S., **Reimink, J.**, & Storck, J. (July 2022). "A non-traditional stable isotope perspective on early Earth continental magmatism," Goldschmidt Conference.
- Reimink, J.** (Author and Presenter). (July 2022). "How Was Thick Archean Lithosphere Constructed?," Goldschmidt Conference, *Invited*.
- Soares, G., Garber, J. M., **Reimink, J.**, & House, C. (July 2022). "Reliability of phosphorites as a deep-time environmental indicator: apatite petrochronology of the 2.4 Ga Turee Creek Group in Western Australia," Goldschmidt Conference.
- Reimink, JR**; Carlson, RW; Mock, TC; A Cavity-Thermal Ionization Mass Spectrometer Designed for High-Precision ^{142}Nd Isotope Analysis. *Oral Presentation, GSA Connects Conference, 2022*
- *Stoian, C; **Reimink JR**; Pearson, DG; Garber, JM; Lou, Y; A New Eoarchean Terrain in Arctic Canada – How Extensive if Acasta-Like Crust? *Poster Presentation, GSA Connects Conference, 2022*
- Bolhuis, C; **Reimink, JR**; Utilizing the Power of Audio for Geoscience Outreach and Education – PlanetGeo and CampGeo, *Poster Presentation, GSA Connects Conference, 2022*
- Soares, GG; Garber, JM; House, CH; **Reimink, JR**; In-situ Petrochronology and Trace-Element Geochemistry of Apatite: A Useful Deep-Time Indicator of Depositional Environment, *Oral Presentation, GSA Connects Conference, 2022*
- Reimink, JR**; How Was Thick Archean Lithosphere Constructed? *Oral Presentation, Goldschmidt Conference, 2022 (Invited)*
- Soares, GG; Garber, JM; House, CH; **Reimink, JR**; Reliability of phosphorites as a deep-time environmental indicator: apatite petrochronology of the 2.4 Ga Turee Creek Group in Western

- Australia, *Oral Presentation, Goldschmidt Conference, 2022*
- Greber, ND; Aarons, S; Dauphas, N; Savage, PS; **Reimink, JR**; Storck, JC; A non-traditional stable isotope perspective on early Earth continental magmatism, *Oral Presentation, Goldschmidt Conference, 2022*
- Reimink, JR**; Davies, JHFL; Crustal Reworking Through Time and Its Influence on Models for Continental Growth Rate, *Oral Presentation, AGU Fall Meeting, 2021*
- Reimink, JR**; Bolhuis, C; The PlanetGEO podcast: An Educational Partnership for Advancing the Stature of the Geosciences in the Public Sphere, *Poster Presentation, AGU Fall Meeting, 2021*
- Perrot, MG; Davies, JHFL; **Reimink, JR**; Ledru, P; Attempts to constrain the fluid flow associated with Uranium Mineralization in the Athabasca Basin using detrital zircons, *Oral Presentation, Goldschmidt Conference, 2021*
- Bauer, AB; **Reimink, JR**; Chacko, T; Foley, B; Shirey, SB; Pearson, DG; Hf isotopic evidence for the gradual onset of Earth's mobile-lid tectonic regime. *Oral Presentation, Goldschmidt Conference, 2021*
- Shannon, M; Freymuth, H; **Reimink, JR**; Rehkamper, M; Williams, HM; Thallium isotope ratios record a transition to melting of hydrated oceanic crust at the Hadean-Archean boundary, *Oral Presentation, Goldschmidt Conference, 2021*
- Garber, JM; Holder, RM; Smye, AJ; **Reimink, JR**; Feineman, MD; The Punctuated Continuum of Plate Tectonics Revealed by Global Igneous Rocks *Oral Presentation AGU Fall Meeting, 2020*
- Reimink, JR**; Davies, JHFL; Ielpi, A; A new analysis of the global detrital zircon record with inferences regarding the growth and rise of the continental crust, *Oral Presentation AGU Fall Meeting, 2020*
- Vezinet, A; **Reimink JR**; Pearson, DG; Luo, Y; Ielpi, A; Timmerman, S; Banas, S; Stachel, T; Nestola, F; Stern, RA; Mircea, C; Jackson, V; Mesoarchean deposition age for diamond-bearing metasediment of the northwestern Slave craton, Nunavut Territory (Canada), *Oral Presentation AGU Fall Meeting, 2020*
- Timmerman, S; Pearson, DG; Nestola, F; Bana, A; Stachel, T; Stern, RA; **Reimink, JR**; Vezinet, A; Ielpi, A; Mircea, C; Jackson, V; Diamond-Bearing Metasediments Point to Thick, Cool Lithospheric Root Established by the Mesoarchean beneath Parts of the Slave Craton (Canada), *Oral Presentation AGU Fall Meeting, 2020*
- Kamber, B; Schoenberg, R; Murphy, D; O'Neill, H; **Reimink, JR**; Elevated 208, 207, ²⁰⁶Pb/²⁰⁴Pb by Volatile Degassing from Impact Melts, *Goldschmidt 2020*
- Reimink, JR**; Davies, JHFL; Chacko T; Bauer, A; What can We Learn from Old Detrital Zircon? A Comparison between Zircon from Acasta and Jack Hills, *Goldschmidt 2020*
- Shannon, M; Freymuth, H; **Reimink, JR**; Moreira, H; Rehkamper, M; Williams, H; Thallium Isotopic Composition of Earth's Earliest Continental Crust, *Goldschmidt 2020*
- Garber, J; Holder, R; Smye, AJ; **Reimink, JR**; Igneous Geochemical Evidence for Continuous Plate Tectonics Since ~3.5 Ga, *Goldschmidt 2020*
- Reimink, JR**; Carlson, RW; Mock, T; Recent advances in cavity-thermal ionization mass spectrometry for high-precision isotope analysis, *Oral Presentation AGU Fall Meeting, 2019 (Invited)*
- Bauer, AM; **Reimink, JR**; Chacko, T; Foley, BJ; Shirey, SB; Pearson, DG; Zircon Hf isotope evidence for a global transition between stagnant- and mobile-lid tectonics, *AGU Fall Meeting, 2019*
- Carlson, RW; **Reimink, JR**; Shirey, SB; Pearson, DG; Ketchum, JFW; The Transition from Hadean Crustal Working to Archean Craton Growth: The Example from the Slave Craton, *Oral Presentation, Geological Society of America Annual Meeting, 2019 (Invited)*
- Reimink, JR**; Pearson, DG; Shirey, SB; Carlson, RW; A Mundl-Petermeier; RJ Walker Extinct radionuclide signatures from juvenile crustal blocks within the Slave craton, *Goldschmidt Conference, 2019, Oral Presentation*
- Reimink, JR**; Carlson, RW; Mock, T; McBay, EH; Hexel, CR. Pushing beyond the current limits on Nd-isotope ratio measurement precision, *AGU Fall Meeting, 2018, Oral Presentation*
- Carlson, RW; **Reimink, JR**; Shirey, SB; Pearson, DG; Mundl A; Walker, RJ; Ketchum, JFW. The Transition from Reworking of Hadean Crust to Generation of New Archean Crust: The Slave craton Perspective, *AGU Fall Meeting 2018, Poster Presentation*
- Bauer, A; **Reimink, JR**; Chacko, T; Transition from shallow- to deep-seated melting and inception of mobile lid tectonics at ~3.6 Ga in the Acasta Gneiss Complex, *AGU Fall Meeting 2018, Oral Presentation (Invited)*
- Reimink, JR**; Carlson, RW; Shirey, SB; Pearson, DG; Ketchum, JFW. The Diverse Origins of Cratonic

Nuclei—A Perspective from the Slave Craton, *Goldschmidt Conference 2018, Oral Presentation*

Davies, JHFL; **Reimink, JR**; What can we learn from old detrital zircon? A comparison between zircon from Acasta and Jack Hills. *Goldschmidt Conference 2018, Poster Presentation*

Mundl, A.; Walker, RJ; **Reimink, JR**; Rudnick, RL; Gaschnig, RM. Compositional changes in the UCC through time revealed by tungsten isotopes, *AGU Fall Meeting, 2017, (Invited) Oral Presentation*

Reimink, JR; Carlson, RW; Shirey, SB; Pearson, DG; Kamber, BS. On the origin of cratonic ‘high- μ ’ isotopic signatures, *AGU Fall Meeting, 2017, Poster Presentation*

Davies, JHFL; Sheldrake, T; **Reimink JR**; Moeck, C; Finlay, A. Isochrons revisited: a new approach to dealing with excess scatter, *Geological Society of America Annual Meeting, 2017*

Reimink, JR; Carlson, RW; Shirey, SB; Pearson, DG. Crustal Evolution of the Archean Slave Craton, NWT, Canada, *Goldschmidt Conference 2017, Oral Presentation*

Reimink, JR; Chacko, T; Davies, JHFL; Pearson, DG; Stern, RA; Heaman, LM; Carlson, RW; Shirey, SB. The birth of a cratonic core recorded by changes in petrological processes within the Hadean-Eoarchean Acasta Gneiss Complex, *Oral Presentation AGU Fall Meeting 2016 (Invited)*

Reimink, JR; Chacko, T; Davies, JHFL; Pearson, DG; Stern, RA; Heaman, LM; Carlson, RW; Shirey, SB. Petrogenesis of the 4.02 Ga Idiwhaa tonalitic gneiss and implications for crust formation on the early Earth, *Goldschmidt Conference 2016, Oral Presentation*

Davies, JHFL; **Reimink, JR**. Extracting extra information from detrital zircon datasets using discordant data, *Goldschmidt Conference 2016, Poster Presentation*

Reimink, JR; Chacko, T; Davies, JHFL; Stern, RA; Pearson, DG; Heaman, LM; Creaser, RA; Detailed Petrochronology of the 4.02 Ga Idiwhaa Tonalitic Gneiss: Evidence Regarding Amount of Pre-existing Hadean Continental Crust, *Geological Society of America Annual Meeting, 2015, Oral Presentation*

Reimink, JR; Chacko, T; Stern, RA; Heaman, LM; Lithogeochemistry and distribution of 4.0–3.4 Ga units of the Acasta Gneiss Complex, NWT, Canada. *AGU/GAC/MAC Joint Meeting, 2015, Poster Presentation*

Reimink, JR; Chacko, T; Stern, RA; Heaman, LM; Davies, JHFL; Pearson, DG; Creaser, RA; An Iceland-like Setting for Generation of a ~4.02 Ga tonalite, Acasta Gneiss Complex, Canada. *AGU/GAC/MAC Joint Meeting, 2015, Oral Presentation*

Reimink, JR; Davies, JHFL; Rojas, X; Waldron, JWF; A new method for evaluating age distributions of detrital zircon datasets by incorporating discordant data. *European Geophysical Union Annual Meeting, 2015, Poster Presentation*