

EMILY C. GEYMAN

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APPOINTMENTS

- 2028 → **Incoming Assistant Professor, California Institute of Technology** (Pasadena CA)
 Division of Geological and Planetary Sciences
- 2026-2028 **Postdoctoral Scholar, Stanford University** (Palo Alto, CA)
 Stanford Science Fellowship. Department of Geophysics. Advisor: Ching-Yao Lai

EDUCATION

- 2021-2026 **California Institute of Technology** (Pasadena, CA)
 Ph.D., Division of Geological and Planetary Sciences
 M.S., Division of Geological and Planetary Sciences
- 2015-2019 **Princeton University** (Princeton, NJ)
 B.A., Department of Geosciences, *Highest Honors (summa cum laude)*

RESEARCH INTERESTS

I am interested in the feedbacks between landscape dynamics and the global carbon cycle. How do geomorphic processes set the pace of silicate weathering in upland landscapes, carbon transfer through rivers and floodplains, and carbonate and organic carbon burial in ocean basins? These processes jointly govern the long-term CO₂ levels in Earth's atmosphere. One of the unifying themes across my projects is the use of *space-for-time substitutions* to derive quantitative constraints on geological processes that may be too slow to observe directly. Earth's landscapes provide natural experiments that allow us to apply data-rich observations across space (in the modern) to understand processes that develop across time. In my research, I have used these natural experiments to study (i) how river geometry and sediment load control the pace of river migration, (ii) how permafrost thaw affects carbon emissions from Arctic terrestrial landscapes, (iii) how tectonics and climate control erosion rates in mountains, (iv) how agricultural crop yields will respond to more frequent heat and drought, (v) how Arctic glaciers respond to warming, and (vi) how sea level and ocean chemistry get recorded in carbonate rocks, one of our principal geological archives for reconstructing Earth's climate history.

RESEARCH EXPERIENCE

- 2026 → **Department of Geophysics, Stanford University, Palo Alto CA**
How does meltwater drainage beneath the Greenland Ice Sheet control its response to warming?
 Combining optical and radar satellite observations with physical models to quantify meltwater delivery, infer subglacial drainage efficiency, and constrain how these processes regulate ice motion.
- 2021-2026 **Division of Geological and Planetary Sciences, Caltech, Pasadena CA**
PhD Dissertation: Natural Experiments in Landscape Dynamics and Carbon Cycling.
 Projects include: (i) using meandering rivers to study carbon fluxes from Arctic terrestrial landscapes, (ii) using high-resolution topographic change detection to constrain the mechanism, magnitude, and timing of post-wildfire debris flows, and (iii) using active uplift along tectonic faults to constrain the processes setting the pace of erosion in mountain landscapes.
- 2023-2024 **Agricultural Research Division, Gates Foundation, Seattle WA**
Using historical weather variability to constrain the climate sensitivity of global crop yields.
 Developed deep learning tools to robustly predict crop type and crop yields from satellite data, including for regions with limited groundtruth data such as Africa. These tools enabled reconstruction of the spatiotemporal variability of crop yields over the last 20 years, which I combined with weather data to quantify the crop-specific sensitivity to weather variability and extremes.
- 2019-2021 **Geology & Geophysics Division, Norwegian Polar Institute, Svalbard & Tromsø**
What controls whether a glacier shrinks or grows in a warmer, wetter climate?
 Used historical aerial imagery and structure-from-motion techniques to reconstruct 80 years of mass balance on Svalbard glaciers to quantify how air temperature, precipitation, hypsometry, and geometry control ice loss in >1,000 small Arctic glaciers.

- 2016-2019 **Department of Geosciences, Princeton University, Princeton NJ**
How do modern shallow-water carbonates record sea level and seawater chemistry?
 Integrated chemical and physical field observations from the Bahamas with biogeochemical and probabilistic models to calculate the relative likelihoods that observed facies transitions and $\delta^{13}\text{C}$ fluctuations in ancient stratigraphy represent global changes in sea level and ocean chemistry rather than natural intra-shelf variability.
- 2018 **NOAA Geophysical Fluid Dynamics Laboratory, Princeton NJ**
What are the physical/biological controls on seawater chemistry in a shallow carbonate shelf?
 Developed a physical biogeochemical model to describe the decoupling of the dissolved inorganic carbon of banktop waters and the global ocean.
- 2016 **Institute for Systems Biology, Seattle WA**
What are the genes responsible for creating peroxisomes, whose deficiencies are linked to some autoimmune disorders? Cultured *Saccharomyces cerevisiae* (yeast) and designed experiments to measure the dynamics of peroxisome biogenesis. Developed an automated image analysis pipeline to extract features from thousands of fluorescence microscopy images.

 PEER-REVIEWED PUBLICATIONS ([Google Scholar](#))

22. Lamb, M. P., **Geyman, E. C.**, Douglas, M. D., & Limaye, A. B. (2026). Emergent regimes of river meandering and permafrost extent in Arctic floodplains. *Geophysical Research Letters*, 53, e2026GL124384.
21. Ke, Y., West, A.J., **Geyman, E.C.**, Dion-Kirschner, H., Huy, K.A., Smith, M.I., Anadu, J.S., Magyar, J.S., Lamb, M.P. and Fischer, W.W. Persistent organic carbon storage in river floodplains over millennia. *Nature Communications*.
20. Chen, Z., **Geyman, E.C.** and Lamb, M.P., 2026. Rapid hazard prediction and assessment of post-fire debris flows using UAV lidar: Eaton Fire, California. *Landslides*.
19. **Geyman, E.C.** and Lamb, M.P., 2025. Resolving the changing pace of Arctic rivers. *Nature Climate Change*, 16 (1): 77–86.
18. **Geyman, E.C.**, Paige, D.A., and Lamb, M.P., 2025. The contribution of rock strength to soil production. *Nature*, 647, pp. 921-927. [[Briefing](#)].
17. Ives, L.R.W., Stack, K.M., **Geyman, E.C.**, Gupta, S., Caravaca, G., Grotzinger, J.P., Lamb, M.P., Fischer, W.W., Weiss, B.P., and others, 2025. Sedimentology and stratigraphy of the fluvial-deltaic Skrinkle Haven member, Tenby formation, Jezero crater, Mars. *Journal of Sedimentary Research*, 95 (6), pp. 1080-1113.
16. **Geyman, E.C.**, Ke, Y., Magyar, J.S., Reahl, J.N., Soldano, V., Brown, N.D., West, A.J., Fischer, W.W. and Lamb, M.P., 2025. Scaling laws for sediment storage and turnover in river floodplains. *Science Advances*, 11(15), p.eadu8574. [[Highlight](#)] [[PDF](#)]
15. **Geyman, E.C.**, Ferris, A., Sahajpal, R., Anderson, W., Lee, D. and Hausmann, N. An Africa-wide agricultural production database to support policy and satellite-based measurement systems. *Scientific Data*, 12(1), 1087. [[PDF](#)].
14. **Geyman, E.C.**, Douglas, M.M., Avouac, J.P. and Lamb, M.P., 2024. Permafrost slows Arctic riverbank erosion. *Nature*, 634(8033), pp. 359-365. [[Highlight](#)] [[Cover](#)] [[PDF](#)]
13. Smith M.I., Ke Y., **Geyman E.C.**, Reahl J.N., Douglas M.M., Seelen E.A., Magyar J.S., Dunne K.B., Mutter E., Fischer W.W., Lamb M.P. & West., A. 2024. Mercury stocks in discontinuous permafrost and their mobilization by river migration in the Yukon River Basin. *Environmental Research Letters*. 19(8), 084041. [[PDF](#)]
12. Howes, B., Mehra, A., **Geyman, E.C.**, Wilcots, J., Manzuk, R., Deutsch, C., & Maloof, A. 2024. The where, when, and how of ooid formation: What ooids tell us about ancient seawater chemistry. *Earth and Planetary Science Letters*, 637, 118697. [[PDF](#)]
11. Edmonson, S., Maloof, A.C., Nadeau, M.D., Ahm, A-S.C., **Geyman, E.C.**, Higgins, J.A., McGee, D., Stolper, D.A. 2024. Shallow carbonate geochemistry during the last interglacial period. *Earth and Planetary Science Letters*, 627, 118566. [[PDF](#)]
10. **Geyman, E.C.**, Wu, Z., Nadeau, M.D., Edmonson, S., Turner, A., Purkis, S.J., Howes, B., Dyer, B., Ahm, A.S.C., Yao, N. and Deutsch, C.A., 2022. The origin of carbonate mud and implications for global climate. *Proceedings of the National Academy of Sciences*, 119(43), p.e2210617119. [[Highlight](#)] [[Summary](#)] [[PDF](#)]
9. Kierulf, H.P., Kohler, J., Boy, J.P., **Geyman, E.C.**, Mémin, A., Omang, O.C., Steffen, H. and Steffen, R., 2022. Time-varying uplift in Svalbard—an effect of glacial changes. *Geophysical Journal International*, 231(3), 1518-1534. [[PDF](#)]

8. Manzuk, R.A., Singh, D., Mehra, A., **Geyman, E.C.**, Edmonson, S., and Maloof, A. C., 2022. A High-Resolution Multispectral Macro-Imager for Geology and Paleontology. *GSA Today*, 32(9), 4-9. [\[PDF\]](#)
7. Chen, M., Conroy, J.L., **Geyman, E.C.**, Sanford, R.A., Chee-Sanford, J.C., and Connor, L.M., 2022. Stable carbon isotope values of syndepositional carbonate spherules and micrite record spatial and temporal changes in photosynthesis intensity. *Geobiology*, 20(5), 667-689. [\[PDF\]](#)
6. **Geyman, E. C.**, van Pelt, W., Maloof, A. C., Faste Aas, H., and Kohler, J. 2022. Historical glacier change on Svalbard predicts doubling of mass loss by 2100, *Nature*, 601(7893), 374-379. [\[NYTimes\]](#) [\[Highlight\]](#) [\[PDF\]](#)
5. **Geyman, E. C.** & Maloof, A. C. 2021. Facies control on carbonate $\delta^{13}\text{C}$ on the Great Bahama Bank. *Geology*, 49(9), 1049-1054. [\[Cover\]](#) [\[PDF\]](#)
4. **Geyman, E. C.**, Dyer, B. & Maloof, A. C. 2021. How is sea level change encoded in carbonate stratigraphy? *Earth and Planetary Science Letters*, 560, 116790. [\[PDF\]](#)
3. **Geyman, E. C.** & Maloof, A. C. 2020. Deriving tidal structure from Landsat time series. *Earth and Space Science*, 7(2). [\[PDF\]](#)
2. **Geyman, E. C.** & Maloof, A. C. 2019. A diurnal carbon cycle engine explains modern and ancient ^{13}C -enriched shallow water carbonates without increasing the global production of oxygen. *Proceedings of the National Academy of Sciences*, 116(49), 24433-24439. [\[Cover\]](#) [\[PDF\]](#)
1. **Geyman, E. C.** & Maloof, A. C., 2019. A simple method for extracting water depth from multispectral satellite imagery in regions of variable bottom type. *Earth and Space Science*, 6(3), 527-537. [\[PDF\]](#)

JOURNAL ARTICLES IN REVIEW, IN REVISION, AND ACCEPTED

27. **Geyman, E.C.** and Lamb, M.P. Historical evidence that wildfire frequency modulates debris-flow hazards through sediment-supply limitation. *In revision at Science Advances*.
26. **Geyman, E.C.**, Chen, Z., Lindsay, D., DiBiase, R., and Lamb, M.P. Source-to-sink mapping reveals the dry origins of post-fire debris flows. *In review at Nature Communications*. [\[Eos\]](#) [\[Highlight\]](#) [\[Webmap\]](#).
25. **Geyman, E.C.**, Chen, Z., Lindsay, D., DiBiase, R., and Lamb, M.P. Topographic controls on post-wildfire sediment transport by dry ravel. *In review at JGR: Earth Surface*.
24. **Geyman, E.C.**, Neely, A., DiBiase, R., and Lamb, M.P. Reading headwater channel topography for quantitative constraints on grain size and channel-forming discharge. *In review at JGR: Earth Surface*.
23. Nadeau, M., Yobo, L., Holmden, C., Mobarak, A., **Geyman, E.C.**, Edmonson, S., Maloof, A., Schoene, B., and Higgins, J. Resolving an apparent imbalance in seawater stable strontium isotopes and implications for the history of the marine carbonate factory. *In review at GCA*.

HONORS

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| 2026-2028 | Stanford Science Fellowship, School of Humanities and Sciences, Stanford University |
| 2026 | Miller Research Fellowship, University of California, Berkeley (declined) |
| 2021-2026 | Fannie and John Hertz Foundation Fellowship |
| 2021-2026 | National Science Foundation Graduate Research Fellowship |
| 2024 | Richard H. Jahns Teaching Award, Geological & Planetary Sciences (Caltech) |
| 2023 | Award for Academic Excellence in Research, Geological & Planetary Sciences (Caltech) |
| 2022 | Ian Campbell Award for outstanding performance in field geology courses (Caltech) |
| 2022 | Caltech Center for Comparative Planetary Evolution (3CPE) Fellow |
| 2019-2021 | Daniel M. Sachs Class of 1960 Scholarship, Princeton University:
<i>Post-graduate fellowship supporting 2 years of glaciology research in Arctic Norway.</i> |
| 2019 | Calvin Dodd MacCracken Thesis Award, Princeton School of Engineering:
<i>Thesis that is most distinctive for its inventiveness and technical accomplishment.</i> |
| 2019 | Peter W. Stroh '51 Environmental Thesis Prize, Princeton Environmental Institute:
<i>Awarded for the best environmental thesis across the University.</i> |
| 2019 | Edward Sampson '14 Thesis Award, Princeton Department of Geosciences:
<i>Awarded for the best senior thesis in the Geosciences Department.</i> |
| 2019 | Elected to the Phi Beta Kappa Society |
| 2019 | Elected to the Society of Sigma Xi |
| 2017-2019 | NOAA Ernest F. Hollings Undergraduate Scholar
<i>National scholarship for 120 students pursuing oceanic and atmospheric research.</i> |

- 2017-2018 Benjamin F. Howell Junior Prize, Princeton Department of Geosciences:
Awarded for the best junior paper in the Geosciences Department.
- 2016-2017 Shapiro Prize for Academic Excellence, Princeton University:
Recognizes top 3% of students for outstanding academic achievement.

RESEARCH GRANTS

- 2023-2024 Hertz Fellowship in Global Health and Development, Bill & Melinda Gates Foundation
2022 Caltech Center for Comparative Planetary Evolution (3CPE) Research Award
2020-2021 Svalbard Arctic Field Grant
2020 AAPG Foundation Marta S. Weeks Award
2018-2019 Smith-Newton Scholarship (High Meadows Environmental Institute)
2019 AEG Tilford Fund Scholarship
2019 AIPG National Undergraduate Scholarship
2018 GSA Stephen Pollock Undergraduate Scholarship
2018 Society for Exploration Geophysicists (SEG) Hugh Hardy Scholarship
2018 Sigma Xi Grants in Aid of Research Award
2018 Evolving Earth Foundation Undergraduate Scholarship

TEACHING AND MENTORSHIP

- 2022-2024 **Teaching Assistant, Caltech Division of Geological and Planetary Sciences**
2024: TA for GE121 (*Advanced Field Geology*).
2023: Co-instructor for GE121b (*Artificial Intelligence in Geology*). [Syllabus]
2022: TA for GE121 (*Advanced Field Geology*).
- 2024 **Mentor, Caltech WAVE Program.**
Advised undergraduate student researcher (Jaden Olah, Stanford University) on a project exploring the links between stromatolite morphology and minor and trace element geochemistry.
- 2021-2022 **Tutor, Caltech Rise Program.**
Weekly tutoring in math and science for students in Pasadena public high schools.
- 2021 **Staff, Juneau Icefield Research Program (JIRP).**
Led students on daily expeditions during the 2 month program to make glacier mass balance measurements, measure ice flow using GPS, and investigate the subsurface with ice penetrating radar. Taught mountaineering skills and crevasse rescue.
- 2017-2019 **Teaching Assistant, Princeton Department of Geosciences (3 courses)**
TA for GEO/WRI201 and FRS127/135. Assisted students with field projects and weekly data analysis and programming assignments.
- 2016-2018 **Tutor, Princeton Integrated Sciences Curriculum (ISC)**

ACADEMIC SERVICE

- 2025 → **Field Safety Committee, Geological and Planetary Sciences Division**
Student member on committee, which reviews field safety plans before field trips and field work.
- 2021 → **Peer-review.** Reviewed manuscripts for *Geology* (2), *Nature* (1), *Nature Climate Change* (1), *Nature Communications* (1), *Nature Water* (2), *Geophysical Research Letters* (1), *Earth and Planetary Science Letters* (2), *Quaternary Science Reviews* (1), *Sedimentary Geology* (1), *Chemical Geology* (2), *Paliaos* (1), *Journal of Glaciology* (1), *The Cryosphere* (1), *Polar Research* (2), *Arctic and Alpine Research* (2), *Earth's Future* (2), *Earth System Science Data* (2), *Global and Planetary Change* (1), *Ocean and Coastal Research* (1), and *Remote Sensing* (1), among others.

COURSEWORK AND SOFTWARE EXPERIENCE

- Coursework includes: Machine Learning; Computer Vision; Differential Equations; Linear Algebra; Data, Models, and Uncertainty; Organic Chemistry; Microbiology; Methods in Data Analysis and Scientific Writing; Applied Remote Sensing; Global Geophysics; Radar Geophysics; Physical Oceanography; Aquatic Geochemistry; Seismology; Glaciology; Geochronology; Sedimentology; Geomorphology; Stratigraphy; Marine Geochemistry.

- Experienced user of MATLAB, Python, L^AT_EX, ArcGIS, QGIS, Adobe, pix4d, DJI Terra, CloudCompare, PDAL, Agisoft Metashape.

OUTDOOR EXPERIENCE

- Certified Wilderness First Responder (WFR).
- Climbing Wall Instructor (2016-2019), American Mountain Guide Association (AMGA) certified.
- Ultrarunning: 1st place and women's course record, Elevate 12hr ultramarathon (2024); 2nd place, Bishop High Sierra Ultras 100km (2024); 1st place, Machete Trail Madness 100km (2023); 1st place and women's course record, Born to Run 100-mile Ultramarathon (2022); 1st place and course record, Pine & Cedar Pain Cave Ultramarathon (2019); 2nd place, Yukon Do It Marathon (2019); 3rd place, Tromsø Mountain Challenge 50k (2019); 1st place, Gulch Countdown (2020); 2nd place, Bridle Trails 50k (2020). 1st place, Wallace Falls Trail 50k (2021).
- Mountaineering and rock climbing in the Canadian Rockies, Cascades, Norway, Svalbard, Alaska, Peru, and Mexico. Experienced with glacier traverse and crevasse rescue.

FIELD EXPERIENCE (88.5 weeks)

- 2022-2025** Yukon & Koyukuk Rivers, Alaska [16 weeks] *How does permafrost affect river meandering dynamics and geochemical fluxes?* Used a combination of terrestrial and drone-derived photogrammetry, stereo timelapse imaging, river measurements (ADCP, sonar, and depth-profile sampling), and stratigraphic observations of bank sediments to better understand how Arctic rivers—and their associated sediment and organic carbon fluxes—will respond to permafrost thaw.
- 2023** Quinn River, Nevada [1.5 weeks] *River meandering without plants and its signatures on Earth & Mars.*
- 2023-2024** Amargosa River, Death Valley [1 week] *Investigating the hydrodynamics and kinematics of unvegetated meandering rivers.*
- 2023** Long Valley Caldera, California [1 week] *Exploring Pleistocene fluvial, deltaic, and lacustrine deposits in the Long Valley Caldera, CA, as an Earth analog for sedimentary deposits at Jezero Crater (Mars).*
- 2023** Bob Marshall Wilderness, Montana [2 weeks] *Agoumon Geobiology Field School. Examining molar tooth and stromatolite structures in the middle-Proterozoic Helena Formation, Belt Supergroup.*
- 2022** Rocknest Formation, Nunavut, Canada [7.5 weeks] *How do stromatolites, Earth's oldest evidence of life, record the physics, chemistry, and biology of the ancient seafloor?* Measured detailed stratigraphic sections and documented stromatolite occurrences in the 1.9-billion-year old Rocknest formation. Using observations to constrain physics-based numerical models to help translate the morphology (e.g., size and shape) of stromatolites in the geological record into quantitative constraints on the chemical kinetics, biological activity, sedimentation, and hydrodynamics at the ancient seafloor.
- 2021-2022** Dragon's Back Pressure Ridge, California [2 weeks] *What is the geomorphic response to a transient pulse of tectonic uplift?* Used a combination of field mapping, UAV surveys, ground penetrating radar (GPR), and geotechnical analyses to investigate the links between uplift, erosion, and channel and hillslope morphology across a small transient mountain range along the San Andreas Fault.
- 2021** Bighorn Mountains, Wyoming [1.5 weeks] *Agoumon Geobiology Field School. How did the earliest rooted land plants change fluvial architecture?*
- 2021** Paradox Basin, Utah [2 weeks] *Investigating facies stacking patterns with the goal of deriving quantitative records of sea level change during the Late Paleozoic Ice Ages (LPIA).*
- 2021** Juneau Icefield, Alaska [7 weeks] *Field staff for the Juneau Icefield Research Program. Scientific objectives included monitoring glacier mass balance, measuring surface ice flow using dGPS, and analyzing firm thickness and thermal/hydrologic properties using shallow coring and ice penetrating radar.*
- 2019-2021** Ny-Ålesund, Svalbard [13.5 weeks] *Measuring mass balance on Svalbard glaciers.* Used ice-penetrating radar, differential GPS measurements, snow depth soundings, and classic glaciological stake measurements to quantify mass balance in NW Svalbard.
- 2020** Nevada, Wyoming, Montana, Oklahoma [6 weeks] *Measuring bed-by-bed thickness distributions and facies transitions in Ordovician and Mississippian shallow carbonate successions to identify quantitative signatures of eustatic sea level change vs. natural intrashelf variability.*
- 2019** Great Slave Lake, Northwest Territories, Canada [1.5 weeks] *Exploring stromatolite morphologies and facies transitions over paleobathymetric gradients in the Orosirian east arm of Great Slave Lake.*

- 2019** Yukon Territories, Canada [5 weeks] *Understanding the paleoecology of early Cambrian to Devonian reefs and the influence of resulting reef geometries on carbonate geochemistry.*
- 2019** Otavi Group, Namibia [3 weeks] *Geological mapping of an Ediacaran megakarst landscape that resulted from the interaction between a thick Neoproterozoic carbonate platform and subsequent pan-African mountain building.*
- 2016-2018** Spain, France, Utah, Nevada [4 weeks] *Student for [GEO201](#) and teaching assistant for [GEO201](#) and [FRS127/135](#)* As a student, conducted semester-long remote sensing research project to understand how elevation, slope, and vegetation type control the rate of forest recovery following fire. As a TA, guided field work during the day and reduced data at night to ensure successful hypothesis-based student research projects in Zumaia, Grottes de Bétharram, and Utah. Responsibilities included flying the [eBee](#) drone to acquire high-resolution imagery and DEMs of field areas, teaching students how to use photogrammetry to generate 3D models of sand dunes and caves, and measuring and interpreting $\delta^{13}\text{C}$, $\delta^{18}\text{O}$, and trace elements in speleothems.
- 2017-2018** Andros Island, Bahamas [8 weeks] *Bachelor's thesis research.* Traveled in an open 14 ft. boat and camped on unpopulated islands to collect a network of samples and observations to better understand how modern shallow carbonates record sea level and seawater chemistry.
- 2018** San Salvador, Bahamas [1 week] *Improving MIS 5e sea-level reconstructions from the Bahamian Archipelago.* Flew [eBee](#) drone to create real-time elevation and color base maps on which to study MIS 5e sea level from strand plains and banana holes.
- 2018** Shark Bay, Australia [2 weeks] *How do stromatolites, Earth's oldest evidence of life, record the seafloor environment?* Measured morphometric characteristics of ~1,500 modern stromatolites to investigate how size and shape record local water depth, wave energy, sedimentation, and microbial activity.
- 2017** Maynard Hills, Australia [3 weeks]. *Earth's early magnetic field recorded in Earth's oldest zircons.* Integrated geological mapping by foot and drone, while piecing together stratigraphic sections in interleaved metasediments and searching for paleomagnetic field tests.

INVITED SEMINARS

- November, 2026** Princeton University: Geosciences Department Seminar
- October, 2026** Stanford University: Geophysics Department Seminar
- May, 2026** Dartmouth College: Earth and Planetary Sciences Department Seminar
- October, 2025** UCLA: Geology & Planetary Science Seminar
- May, 2025** Caltech: Geoclub seminar, Division of Geological and Planetary Sciences