

ELIZABETH JACQUELINE CATLOS**Associate Professor**[Department website](#)[Research website](#)

The University of Texas at Austin Jackson School of Geosciences Dept. Geological Sciences
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RESEARCH INTERESTS

Developing and applying petrochemical and geochemical techniques to the study of lithosphere dynamics. Investigating metamorphic processes, including advances in understanding mineral equilibria to estimate environmental conditions during dynamic recrystallization. Applying accessory mineral geochronology to broad questions about Earth's history. Models for heat, mass, and fluid flow along fault systems, primarily compressional and extensional.

EDUCATION

Ph.D. 2000	University of California Los Angeles	Geochemistry
Phil Cand 1999	University of California Los Angeles	Geochemistry
BSc 1994	University of California, San Diego	Chemistry w/ Spec. Earth Science

PROFESSIONAL APPOINTMENTS

2008-	Associate Professor, Dept. Geological Sciences, Jackson School of Geosciences, The University of Texas at Austin
2020-	Affiliate Faculty, Center for Planetary Systems Habitability
2019-	Affiliate Faculty, Center for Russian and Eastern European Studies (CREEES)
2001-2008	Oklahoma State University (Assistant-Associate Professor)
Jan. 2001-Aug. 2001	University of California, Los Angeles, Dept. Earth and Space Sciences/Smithsonian Museum of Natural History, Dept. Mineral Sciences (Postdoctoral research)

VISITING APPOINTMENTS

Summer 2022	Soochow University International Programs, Taiwan, Visiting Faculty "The Dynamic Earth" online course
Fall 2017	Max Kade Distinguished Visiting Professor, Univ. of Heidelberg, Germany
Summer 2015	Visiting Researcher, Dept. of Earth and Space Sciences UCLA
2008-2009	Senior Lecturer, Fulbright Program, Middle East Technical University (METU), Ankara, Turkey
2007-2008	Donald D. Harrington Fellow Visiting Faculty, UT Austin

FELLOWSHIPS AND AWARDS**Research**

2017	Max Kade Distinguished Visiting Professorship, Heidelberg University, Germany
2013	Notable Paper American Mineralogist Catlos, E.J. (2013) Generalizations about monazite: Implications for geochronologic studies. American Mineralogist, 98, 819–832. https://doi.org/10.2138/am.2013.4336
2008-09	Fulbright Lecturing Award, Middle East Technical University, Turkey
2007	Fellow of the Geological Society of America
2007	Young Innovator, Smithsonian Magazine
2007-08	UT Austin Donald D. Harrington Fellowship
2006	Geological Society of America's Young Scientist Award (Donath Medal)
2000	UCLA Fellow of the Institute of Geophysics and Planetary Physics
1997	Predoctoral Fellowship, Smithsonian Institution

1994 Undergraduate Summer Research Fellowship, NASA

Teaching

- 2019-21 UT Austin Experiential Learning Ambassador based on distinguished accomplishments in teaching, mentoring, and service to the UT community
 2015 Carolyn G. and G. Moses Knebel Teaching Award for Introductory Course (GEO401)
 2011 Texas Exes Teaching Award

Service

- 2021-22 Selected as a mentor for the JSG NSF Champions of Diversity Program
 2013-17 Elected Councilor for the Geological Society of America
 2017 JSG Outstanding Service Award: Department of Geological Sciences (DGS) Female Faculty as a team for their work towards improving the JSG workplace environment
 2015 Outstanding Reviewer for Earth and Planetary Science Letters, Elsevier
 2006 Oklahoma State University College of Arts and Sciences Junior Faculty Award
 2006 Outstanding Reviewer for Geological Society of America Bulletin

RESEARCH PROJECTS:

Funded External

- 11/18/18, 36 months, European Commission. Project IN-TIME: Developing a luminescence instrument for geochronology on Mars. U.S. partner collaborator. Amount \$15,000.
- 06/1/15-07/31/2021, National Science Foundation, International. IRES: Closing Oceans: Assessing the Dynamics of Turkish suture zones, PI Catlos with Co-PIs Elliott, Kyle. Amount \$250,000.
- 0/1/15, 36 months, TUBITAK (Turkish Research Council) Link Between Mineralization in Magmatic-Hydrothermal Systems associated with Granitoid Intrusions in NE of Yenice (Çanakkale, Biga Peninsula) PI Tolga Oyman with co-PIs Catlos and Melanie Kaliwoda. Amount 300,008YTL.
- 01/01/08-12/31/12: National Science Foundation, International. International: Research Opportunities in Extensional Dynamics for US Undergraduate and Graduate Geosciences Students in Western Turkey PI Catlos with collaborators Çemen, Atekwana, Amount \$150,000.
- 02/01/05-01/31/08: National Science Foundation, Tectonics. Collaborative Research: Extensional Unroofing of the Central Menderes Metamorphic Complex, Southwestern Turkey. PI Catlos with Co-PIs Çemen, Kohn, Amount: \$216,917.
- 8/1/02-8/31/05: National Science Foundation, International, International: Investigation of activity along the Himalayan Main Central Thrust: Present Geomorphology and past Slip, Garhwal, NW India PI Catlos with Co-PIs Marston, Dubey. Amount: \$36,000.
- 6/1/02-5/31/05, National Science Foundation, Astronomy. Subcontract from New Frontiers-Research Experience for Undergraduates in the Space and Planetary Sciences PI: Marston with Co-PI Catlos, Subcontract from Award 0138942. Amount: \$70,770.

Funded Internal

- 2020: UT Austin, VPR Research, Special Research Grant proposal titled "Vertebrate lies; arthropods were the first land animals." Amount \$1,000.
- 2019: UT Austin Faculty Innovation Center, Faculty DIY Award: Creating Videos on Site (at a dig in the UK) for an Introductory Geology Course. Amount \$500.
- 2018-2019: UT Austin, Faculty Innovation Center, Faculty Innovation Grant: Incorporating electron microbeam technology into geosciences undergraduate education. Amount \$9,100.
- 2018-2019: UT Austin, International Office, Global Classrooms Curriculum Integration Grant, with Axel Schmitt, Heidelberg University. Amount \$6,500
- 2014: JSG Seed Grant: Ion microprobe stable isotope analyses of fracture-filling Çement— implications for basin structural and pore fluid evolution in unconventional oil and gas reservoirs. PI Catlos with Eichhubl. Amount \$20,173.

- 2014: JSG Equipment Matching Program: Funds for the Repair of the Dept. of Geological Sciences Bench-Top Cathodoluminescence System. PI Catlos, Kyle, Milliken, Martindale, Kerans, Breecker, Quinn. Amount \$11,387.
- 2012: JSG Equipment Matching Program: Funds for the Repair of the Dept. of Geological Sciences Bench-Top Cathodoluminescence System. PI Catlos with Kyle and Milliken. Amount \$6,718.

Student Funding

- Geological Society of America (GSA) Student Research Grant, Hector Garza, graduate student (\$2,500).
- UT Austin, Center for Planetary Habitability, Hector Garza, graduate student. Support for one semester, travel and research (\$35,000).
- GSA South-Central Section Undergraduate Research Grants: Kimberly Aguilera (\$500); Stephanie Suarez (\$500), Daniel Lizzardo-McPherson (\$300); Gabriel Villasenor (\$300).
- UT Austin Undergraduate Research Fellowships with a match from the JSG (~\$2000 each): 2020: Shania Goodwin; 2019: Gabriel Villasenor; 2018: Theresa Perez; 2016: Emily Pease; 2015: Colin Sturrock; 2014, Bridget Pettit, Colin Sturrock, Abby Kenigsberg; 2012: Lindsey German, Pamela Speciale, 2010: Tim Shin
- UT Austin Center for Eastern European Studies: Daniel Campos (\$1,000)
- UT Austin International Office, Global Research Fellowship: Thomas Etzel (\$5,000)

PUBLICATIONS

^u author is an undergraduate student under my direct supervision

^g author is a graduate student under my direct supervision

Peer-reviewed publications

		All	Since 2018
	Citations	3818	1043
	h-index	23	18
	i10-index	39	29
1. Catlos, E.J. , Çemen, I. (2023) Chapter 1: When plates collide. In: Catlos, E.J., Çemen, I. <i>Compressional Tectonics: Plate Convergence to Mountain Building</i> , Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 3-20. DOI:10.1002/9781119773856.ch01, preprint DOI: https://doi.org/10.22541/essoar.167525181.10212724/v1			
2. Catlos, E.J. , Çemen, I. (2023) Chapter 4: A review of the dynamics of subduction zone initiation in the Aegean Region. Volume I. <i>Compressional Tectonics: Plate Convergence to Mountain Building</i> . In: Catlos, E.J., Çemen, I. <i>Compressional Tectonics: Plate Convergence to Mountain Building</i> , Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 87-117. DOI:10.1002/9781119773856.ch04, preprint DOI: https://doi.org/10.1002/essoar.10508919.1			
3. Catlos, E.J. (2023) Chapter 6: Records of Himalayan metamorphism and contractional tectonics in the central Himalayas (Daroni Khola, Nepal). In: Catlos, E.J., Çemen, I. <i>Compressional Tectonics: Plate Convergence to Mountain Building</i> , Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 155-201. DOI:10.1002/9781119773856.ch06, preprint DOI: https://doi.org/10.1002/essoar.10508670.1			
4. Catlos, E.J. , Dubey, C.S. Etzel, T.M. ^g (2022). Imbrication and erosional tectonics recorded by garnets in the Sikkim Himalayas. <i>Geosciences</i> . https://doi.org/10.3390/geosciences12040146			
5. Catlos, E.J. , Broska, I., Kohút, M., Etzel, T.M. ^g , Kyle, J.R., Stockli, D.F., Miggins, D.P., Campos, D. ^g (2022) Geochronology, geochemistry, and geodynamic evolution of Tatric granites from crystallization to exhumation (Tatra Mountains, Western Carpathians). <i>Geologica Carpathica</i> , 73(6), 517-544. https://doi.org/10.31577/GeolCarp.73.6.1			
6. Catlos, E.J. , Etzel, T.M. ^g , Çemen, I. (2022) Extensional Tectonics in Western Anatolia, Turkey: Eastward continuation of the Aegean Extension. AGU Books project Volume II. <i>Extensional Tectonics: Continental Breakup to Formation of Oceanic Basins</i> . https://doi.org/10.1002/essoar.10508671.1			

7. Brookfield, M.E., **Catlos, E.J.**, Suarez, S.E.^u (2022) Vertebrate lies; arthropods were the first land animals. *Geology Today* (UK). <https://doi.org/10.1111/gto.12383>
8. Etzel, T.M.^g, **Catlos, E.J.** (2021) Garnet chemical zoning based thermobarometry: Method evaluation and applications in the Menderes Massif, Western Turkey. *Geosciences*, <https://doi.org/10.3390/geosciences11120505>
9. Brookfield, M.E., Couto, H., **Catlos, E.J.**, Schmitt, A.K. (2021) U-Pb SIMS zircon ages for Ordovician rocks, Valongo Anticline, northwestern Portugal. *Journal of Mediterranean Earth Sciences*. <https://doi.org/10.13133/2280-6148/17274>
10. Villaseñor, G.^u, **Catlos, E.J.**, Broska, I., Kohút, M., Hraško, L., Aguilera, K.^u, Etzel, T.M.^g, Kyle, J.R., Stockli, D.F. (2021) Evidence for widespread mid-Permian magmatic activity related to rifting following the Variscan orogeny (Western Carpathians). *Lithos*, <https://doi.org/10.1016/j.lithos.2021.106083>
11. Villaseñor, G.^u, **Catlos, E.J.**, Broska, I., Kohút, M., Hraško, L., Aguilera, K.^u, Etzel, T.M.^g, Kyle, J.R., Stockli, D.F. (2021) Western Carpathian mid-Permian Magmatism: Petrographic, Geochemical, and Geochronological Data. Data-in-Brief, <https://doi.org/10.1016/j.lithos.2021.106083>
12. **Catlos, E. J.**, Perez, T.J.^u, Lovera, O.M., Dubey, C.S., Schmitt, A.K., Etzel, T.M.^g (2020). High-resolution P-T-Time paths across Himalayan faults exposed along the Bhagirathi transect NW India: Implications for the construction of the Himalayan orogen and ongoing deformation. *Geochemistry, Geophysics, Geosystems*, 21, e2020GC009353, <https://doi.org/10.1029/2020GC009353>
13. **Catlos, E.J.**, Mark, D.F., Suarez, S.E.^u, Brookfield, M.E., Miller, C.G., Schmitt, A.K., Gallagher, V., Kelly, A. (2020) Late Silurian zircon U–Pb ages from the Ludlow and Downton bone beds, Welsh Basin, UK *Journal of the Geological Society*, 178, jgs2020-107, <https://doi.org/10.1144/jgs2020-107>
14. Brookfield, M.E., **Catlos, E.J.**, Suarez, S.^u (2020) Myriapod divergence times differ between molecular clock and fossil evidence: U/Pb zircon ages of the earliest fossil millipede-bearing sediments. *Historical Biology*. <https://doi.org/10.1080/08912963.2020.1762593>
15. Etzel, T.M.^g, **Catlos, E.J.**, Çemen, I., Ozerdem, C.^g, Oyman, T., Miggins, D. (2020) Documenting exhumation in the central and northern Menderes Massif (western Turkey): New insights from garnet-based P-T estimates and K-feldspar 40Ar/39Ar geochronology. *Lithosphere*, 1, 8818289, <https://doi.org/10.2113/2020/8818289>
16. **Catlos, E.J.**, Pease, E.C.^u, Dygert, N., Brookfield, M., Schwarz, W.H., Bhutani, R., Pande, K., Schmitt, A. (2019) Nature, age and emplacement of the Spong tang ophiolite, Ladakh, NW India. *Journal of the Geological Society* 176 (2), 284-305, <https://doi.org/10.1144/jgs2018-085>
17. Etzel, T.M.^g, **Catlos, E.J.**, Atakturk, K.^g, Kelly, E.D., Lovera, O.M., Çemen, I., Diniz, E., Stockli, D. (2019) Implications for thrust-related shortening punctuated by extension from P-T paths and geochronology of garnet-bearing schists. *Tectonics* 38 (6), 1974-1998, <https://doi.org/10.1029/2018TC005335>
18. **Catlos, E.J.**, Lovera, O.M., Kelly, E.D., Ashley, K.T., Harrison, T.M., Etzel, T.M.^g (2018) Modeling High-resolution Pressure-Temperature Paths across the Himalayan Main Central Thrust (central Nepal): Implications for the Dynamics of Collision. *Tectonics*, 37, 2363-2388, <https://doi.org/10.1029/2018TC005144>
19. **Catlos, E.J.**, Miller, N.R. (2017) Speculations Linking Monazite Compositions to Origin: Llallagua Tin Ore Deposit (Bolivia). For Special Issue "Criticality of the Rare Earth Elements: Current and Future Sources and Recycling." *Resources*, 6(3), 36, <https://doi.org/10.3390/resources6030036>
20. Suarez, S.E.^u, Brookfield, M., **Catlos, E.J.**, Stockli, D. (2017). A U-Pb zircon age constraint on the oldest-recorded air-breathing land animal. *PLoS One* 12 (6), e0179262, <https://doi.org/10.1371/journal.pone.0179262>
21. Sturrock, C.P.^u, **Catlos, E.J.**, Miller, N.R., Akgun, A., Fall, A., Gabtov, R., Yilmaz, I.O, Larson, T., Black, K.^g (2017) Fluids along the North Anatolian Fault, Niksar Basin, north central Turkey: Insight from stable isotopic and geochemical analysis of calcite veins. *Journal of Structural Geology*, 101, 58-79, <https://doi.org/10.1016/j.jsg.2017.06.004>

22. **Catlos, E.J.**, Miller, N.M. (2016) Ion microprobe ²³²Th-²⁰⁸Pb ages from the high common Pb Amelia pegmatite monazite, Virginia: Implications for Alleghanian tectonics. *American Journal of Science*, 316, 470-503, <https://doi.org/10.2475/05.2016.03>
23. **Catlos, E.J.**, Reyes, E.^u, Brookfield, M., Stockli, D.F. (2016) Age and Emplacement of the Permian-Jurassic Menghai Batholith, Western Yunnan, China. *International Geology Review*, p. 1-27, <https://doi.org/10.1080/00206814.2016.1237312>
24. **Catlos, E.J.**, Friedrich, A.M., Lay, T., Elliott, J., Carena, S., Upreti, B.N., DeCelles, P., Tucker, B., Bendick, R. (2016) Nepal at Risk: Interdisciplinary Lessons Learned from the April 2015 Nepal (Gorkha) Earthquake and Future Concerns. *GSA Today*, <https://doi.org/10.1130/GSATG278GW.1>
25. Azizi, H., Najari, M., Asahara, Y., **Catlos, E.J.**, Shimizu, M., Yamamoto, K. (2015) U-Pb zircon ages and geochemistry of Kangareh and Taghiabad mafic bodies in northern Sanandaj-Sirjan Zone, Iran: Evidence for intra-oceanic arc and back-arc tectonic regime in Late Jurassic. *Tectonics*, <https://doi.org/10.1016/j.tecto.2015.08.008>
26. Speciale, P.^u, **Catlos, E.J.**, Yildiz, GO^u, Shin, T.A.^u, Black, K.N.[§] (2014) Zircon ages of the Beypazari granitoid pluton (north central Turkey): Tectonic implications. *Geodynamica Acta*. <https://doi.org/10.1080/09853111.2013.858955>
27. **Catlos, E.J.**, Huber, K.[§], Shin, T.A.^u (2013) Geochemistry and geochronology of meta-igneous rocks from the Tokat Massif, north-central Turkey: implications for Tethyan reconstructions. *International Journal of Earth Sciences*. <https://doi.org/10.1007/s00531-013-0918-0>
28. Shin, T.A., **Catlos, E.J.**, Jacob, L.[§], Black, K.[§] (2013) Relationships between very high pressure subduction complex assemblages and intrusive granitoids in the Tavşanlı Zone, Sivrihisar Massif, central Anatolia. *Tectonophysics*, 595-596:183-197, <https://doi.org/10.1016/j.tecto.2012.07.012>
29. Black, K.N.[§], **Catlos, E.J.**, Oyman, T. (2013) Timing Aegean extension: Evidence from in situ U–Pb geochronology and cathodoluminescence imaging of granitoids from NW. Turkey (Special Issue: Geodynamics and Magmatism). *Lithos*. <https://doi.org/10.1016/j.lithos.2013.09.001>
30. **Catlos, E.J.** (2013) Generalizations about monazite: Implications for geochronologic studies. *American Mineralogist* (Impact Factor: 2.2). 01/2013; 98:819-832. <https://doi.org/10.2138/am.2013.4336> [INVITED, Notable Paper Award]
31. **Catlos, E.J.**, Jacob, L.[§], Oyman, T., Sorensen S.S. (2012) Long-term exhumation of an Aegean metamorphic core complex granitoids in the northern Menderes Massif, western Turkey. *American Journal of Science*, 312, 534-571. <https://doi.org/10.2475/05.2012.03>
32. **Catlos, E.J.**, Baker, C.[§], Sorensen, S.S., Jacob, L.[§], Çemen, I. (2011) Linking microcracks and mineral zoning of detachment-exhumed granites to their tectonomagmatic history: Evidence from the Salihli and Turgutlu plutons in western Turkey (Menderes Massif), *Journal of Structural Geology*, 33, 951- 969. <https://doi.org/10.1016/j.jsg.2011.02.005>
33. **Catlos, E.J.**, Sayit, K., Sivasubramanian, P., Dubey, C.S. (2011) Geochemical and geochronological data from charnockites and anorthosites from India's Kodaikanal-Palani Massif, Southern Granulite Terrain, India. In: *Topics in Igneous Petrology: a tribute to Prof. Mihir K. Bose, Ray, J., Sen, G., Ghosh, B. (Eds.), Springer*, p. 383-417. https://doi.org/10.1007/978-90-481-9600-5_15
34. **Catlos, E.J.**, Baker, C.[§], Sorensen, S.S., Çemen, I., Hancer, M. (2010) Geochemistry, geochronology, and cathodoluminescence imagery of the Salihli and Turgutlu granites (central Menderes Massif, western Turkey): Implications for Aegean tectonics. *Tectonophysics*, 488, 110-130. <https://doi.org/10.1016/j.tecto.2009.06.001>
35. Belley, F., Ferre, E.C., Martin-Hernandez, F., Jackson, M.J., Dyar, M.D., **Catlos, E.J.** (2009) The magnetic properties of natural and synthetic (Fex, Mg1-x)2 SiO4 olivines. *Earth and Planetary Science Letters*, 284, 516-526. <https://doi.org/10.1016/j.epsl.2009.05.016>
36. **Catlos, E.J.**, Baker, CB[§], Çemen, I., Ozerdem, C.[§] (2008) Whole rock major element influences on monazite growth: examples from igneous and metamorphic rocks in the Menderes Massif, western Turkey. *Mineralogia*, 38, 5-18. <https://doi.org/10.2478/v10002-008-0002-8> [INVITED PAPER for first issue of the journal]

37. **Catlos, E.J.**, Dubey, C.S., Sivasubramanian, P. (2008) Monazite ages from carbonatites and high-grade assemblages along the Kambam Fault Southern Granulite Terrain, South India. *American Mineralogist*, 93, 1230-1244. <https://doi.org/10.2138/am.2008.2712>
38. **Catlos, E.J.**, Baker, C.B. [§], Sorensen, S.S., Çemen, I., Hancer, M. (2008) Monazite geochronology, magmatism, and extensional dynamics within the Menderes Massif, western Turkey. *IOP Conference Series, Earth and Environmental Sciences*, 2, 012013, <https://doi.org/10.1088/1755-1307/2/1/012013>
39. Baker, C.B. [§], **Catlos, E.J.**, Sorensen, S.S., Çemen, I., Hancer, M. (2008) Evidence for polymetamorphic garnet growth in the Cine (southern Menderes) Massif, Western Turkey. *IOP Conference Series, Earth and Environmental Sciences*, 2, 012020, <https://doi.org/10.1088/1755-1307/2/1/012020>
40. Çemen, I., **Catlos, E.J.**, Gogus, O., Diniz, E., Hancer, M. (2008) Cenozoic extensional tectonics of the Western Anatolia Extended Terrane, Turkey. *IOP Conference Series Earth and Environmental Science*, 2, 012009. <https://doi.org/10.1088/1755-1307/2/1/012009>
41. **Catlos, E.J.**, Dubey, C.S., Marston, R.A., Harrison, T.M. (2007) Geochronologic constraints across the Main Central Thrust shear zone, Bhagirathi River (NW India): Implications for Himalayan tectonics. In: *Convergent Margin Terranes and Associated Regions: A tribute to W. G. Ernst. Geological Society of America Special Paper*, (Eds.) M. Cloos, W. D. Carlson, M. C. Gilbert, J. G. Liou, and S. S. Sorensen. Vol. 419, pp. 135-151, [https://doi.org/10.1130/2006.2419\(07\)](https://doi.org/10.1130/2006.2419(07)) [INVITED]
42. Çemen, I., **Catlos, E.J.**, Gogus, O., Ozerdem, C. [§] (2006) Post-Collisional Extensional Tectonics and Exhumation of the Menderes Massif in the Western Anatolia Extended Terrane, Turkey. In: *Post-collisional Tectonics and Magmatism in the Eastern Mediterranean Region. Geological Society of America's Special Paper*, (Ed.) Y. Dilek., 409, 353-379, [https://doi.org/10.1130/2006.2409\(18\)](https://doi.org/10.1130/2006.2409(18))
43. Dubey, C.S., **Catlos, E.J.**, Sharma, B.K. (2005) Modeling P-T-t paths constrained by mineral chemistry and monazite dating of metapelites ion relationship to MCT activity in Sikkim, eastern Himalayas. In: H. Thomas (ed.) *Metamorphism and Crustal Evolution: Papers in Honor of Prof. R.S. Sharma*, Atlantic Publishers and Distributors, 250-282.
44. **Catlos, E.J.**, Çemen, I. (2006) Reply to Whitney and Regnier's comments regarding "Monazite Ages and the Evolution of the Menderes Massif, western Turkey" (*Int J Earth Sci* 94:204-217). *International Journal of Earth Sciences*, 95, 352-354, <https://doi.org/10.1007/s00531-006-0069-7>
45. **Catlos, E.J.**, Çemen, I. (2005) Monazite ages and the evolution of the Menderes Massif, western Turkey. *International Journal of Earth Sciences*, 94, 204-217, <https://doi.org/10.1007/s00531-005-0470-7>
46. **Catlos, E.J.**, Dubey, C.S., Harrison, T.M., Edwards, M.A. (2004) Late Miocene Movement within the Himalayan Main Central Thrust Shear Zone, Sikkim, NE India. *Journal of Metamorphic Geology*, 22, 207-226, <https://doi.org/10.1111/j.1525-1314.2004.00509.x>
47. Bollinger, L., Avouac, J.P., Beyssac, O., **Catlos, E.J.**, Harrison, T.M., Grove, M., Goffe, B., Sapkota, (2004) Thermal structure and exhumation history of the lesser Himalaya in central Nepal. *Tectonics*, 23, Art. No. TC5015, <https://doi.org/10.1029/2003TC001564>
48. Robinson, D.M., DeCelles, P.G., Garizone, C.N., Pearson, O.N., Harrison, T.M., **Catlos, E.J.** (2003) Kinematic model for the Main Central Thrust in Nepal. *Geology*, 31, 359-362, [https://doi.org/10.1130/0091-7613\(2003\)031<0359:KMFTMC>2.0.CO;2](https://doi.org/10.1130/0091-7613(2003)031<0359:KMFTMC>2.0.CO;2)
49. Robinson, D.M., DeCelles, P.G., Garizone, C.N., Pearson, O.N., Harrison, T.M., **Catlos, E.J.** (2003) Kinematic model for the Main Central Thrust in Nepal:Reply. *Geology*, 31, e41, <https://doi.org/10.1130/0091-7613-31.1.e41>
50. **Catlos, E.J.**, Sorensen, S.S. (2003) Phengite-based chronology of K- and Ba-rich fluid flow within two paleosubduction zones. *Science*, 299, 92-95, <https://doi.org/10.1126/science.1076977>
51. **Catlos, E.J.**, Gilley, L.D., Harrison, T.M. (2002) Interpretation of monazite ages obtained via in situ analysis. *Chemical Geology*, 188, 193-215, [https://doi.org/10.1016/S0009-2541\(02\)00099-2](https://doi.org/10.1016/S0009-2541(02)00099-2)
52. **Catlos, E.J.**, Harrison, T.M., Manning, C.E., Grove, M., Rai, S.M., Hubbard, M.S., Upreti, B.N. (2002) Records of the evolution of the Himalayan orogen from in situ Th-Pb ion microprobe dating of

- monazite: Eastern Nepal and Garhwal. *Journal of Asian Earth Sciences*, 20, 459-479, [https://doi.org/10.1016/S1367-9120\(01\)00039-6](https://doi.org/10.1016/S1367-9120(01)00039-6)
53. Harrison, T.M., **Catlos, E.J.**, Montel, J-M. (2002) U-Th-Pb Dating of Phosphate Minerals. In: J.M. Hughes, M. Kohn, J. Rakovan (Eds.) *Phosphates: Geochemical, Geobiological and Materials Importance*. Mineralogical Society of America, Washington DC, pp. 523-558, <https://doi.org/10.2138/rmg.2002.48.14>
 54. Kohn, M.J., **Catlos, E.J.**, Ryerson, F.J., Harrison, T.M. (2002) P-T-t path discontinuity in the MCT Zone, central Nepal: Reply. *Geology*, 30, 480-48, [https://doi.org/10.1130/0091-7613\(2002\)030<0480:R>2.0.CO;2](https://doi.org/10.1130/0091-7613(2002)030<0480:R>2.0.CO;2)
 55. **Catlos, E.J.**, Harrison, T.M., Kohn, M.J., Grove, M., Ryerson, F.J., Manning, C.E., Upreti, B.N. (2001) Geochronologic and thermobarometric constraints on the evolution of the Main Central Thrust, central Nepal Himalaya. *Journal of Geophysical Research*, 106, 16177-16204, <https://doi.org/10.1029/2000JB900375>
 56. Kohn, M.J., **Catlos, E.J.**, Ryerson, F.J., Harrison, T.M. (2001) P-T-t path discontinuity in the MCT Zone, central Nepal. *Geology*, 29, 571-574, [https://doi.org/10.1130/0091-7613\(2001\)029<0571:PTTPDI>2.0.CO;2](https://doi.org/10.1130/0091-7613(2001)029<0571:PTTPDI>2.0.CO;2)
 57. **Catlos, E.J.**, Sorensen, S.S., Harrison, T.M. (2000) Th-Pb ion-microprobe dating of allanite. *American Mineralogist* 85, 633-648, <https://doi.org/10.2138/am-2000-5-601>
 58. Harrison, T.M., Grove, M., Lovera, O.M., **Catlos, E.J.**, D'Andrea, J. (1999) The origin of Himalayan anatexis and inverted metamorphism: Models and constraints. *Journal of Asian Earth Sciences* 17, 755-772, [https://doi.org/10.1016/S1367-9120\(99\)00018-8](https://doi.org/10.1016/S1367-9120(99)00018-8)
 59. Harrison, T.M., Grove, M., Lovera, O.M., **Catlos, E.J.** (1998) A model for the origin of Himalayan anatexis and inverted metamorphism. *Journal of Geophysical Research* 103, 27017-27032, <https://doi.org/10.1029/98JB02468>
 60. Harrison, T.M., Ryerson, F.J., Le Fort, P., Yin, A., Lovera, O.M., **Catlos, E.J.** (1997) A Late Miocene-Pliocene origin for Central Himalayan inverted metamorphism. *Earth and Planetary Science Letters* 146, E1-E7, [https://doi.org/10.1016/S0012-821X\(96\)00215-4](https://doi.org/10.1016/S0012-821X(96)00215-4)

Edited Volumes and Books

Research

1. **Catlos, E.J.**, Liu, M., Göçmengil, G. (2023, in preparation) *Natural Resources - Energy Transition for a Sustainable Future*. All Earth (formerly *Geodinamica Acta*).
2. **Catlos, E.J.**, Çemen, I. (2003) *Compressional Tectonics: Plate Convergence to Mountain Building*, Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc. AGU Books project *Compressional Tectonics: Plate Convergence to Mountain Building - Volume I*.
3. Çemen, I., **Catlos, E.J.** (2023, in preparation) AGU Books project *Extensional Tectonics: Continental Breakup to Formation of Oceanic Basins - Volume II*.
4. Çemen, I., **Catlos, E.J.** (2023, in preparation) AGU Books project *Strike Slip Tectonics - Volume III*
5. Hunt, B.B., **Catlos, E.J.** (2013) *Late Cretaceous to Quaternary Strata and Fossils of Texas: Field Excursions Celebrating 125 Years of GSA and Texas Geology*, GSA South-Central Section Meeting, Austin, Texas, April 2013. *GSA Field Guides* 30, 2013. <https://doi.org/10.1130/9780813700304>
6. **Catlos, E.J.** (2008) *Donald D Harrington Symposium on the Geology of the Aegean*. IOP Conference Series Earth and Environmental Sciences, 2. <https://doi.org/10.1088/1755-1315/2/1/011001>

Teaching

1. **Catlos, E.J.** (2021) *Geology of National Parks for the University of Texas*, Austin, 2nd edition. Kendall Hunt Publishing. <https://he.kendallhunt.com/product/geology-national-parks-university-texas-austin> (electronic textbook)
2. **Catlos, E.J.** (2020) *GEO 416K Earth Materials Lab Guide*, 2nd edition. Kendall Hunt Publishing, <https://he.kendallhunt.com/product/geo-416k-earth-materials-lab-guide> (electronic lab manual)
3. **Catlos, E.J.** (2016) *Physical Geology Lab Manual*. Great River Learning. ISBN: 9781680751291, <https://www.greatriverlearning.com/product-details/984> (electronic lab manual)

4. **Catlos, E.J.** (2013) GEO 416K Earth Materials Lab Guide. Kendall Hunt Publishing, 196pp. ISBN-10: 1465219102.

INVITED PRESENTATIONS (since 2008 only)

Universities

- 2022 University of Nevada Las Vegas, Dept. Geoscience
University of Louisiana, Lafayette, School of Geosciences
UT Austin, Dept. Geological Sciences, Geosciences Leadership Organization for Women
UT Austin, Dept. Geological Sciences, Lithosphere Dynamics Seminar
- 2021 University of New Mexico, Dept. Earth and Planetary Sciences
- 2020 UT Austin, Faculty Innovation Center, Bringing the Field into Introductory Geosciences Classrooms
UT Austin, Faculty Innovation Center, Plans for moving forward after COVID: Recovering from the derailment
- 2019 UCLA, Dept. Earth, Planetary, and Space Sciences
- 2018 University of Houston, Dept. Earth and Atmospheric Sciences
UT Austin, Planetary Habitability Pop-Up Institute
- 2017 Heidelberg University, Germany, Institute of Earth Sciences
Ludwig Maximilian University of Munich, Germany, Dept. Earth and Environmental Sciences
- 2013 Louisiana State University, Dept. Geology and Geophysics
- 2011 UT Austin, Dept. Geological Sciences, Undergraduate Geological Society
- 2010 Pennsylvania State University, Geosciences Dept.
Pennsylvania NASA Space Grant Consortium
- 2008 University of Arkansas, Dept. of Geology
UT Austin, Texas Earth Science Revolution program

Invited Talks at Conferences

- 2022 Universidad Computense Madrid, Ages of Mars conference, Madrid, Spain
<https://ucm.es/agesofmars/>
- 2019 American Geophysical Union, Topical Session, Catlos, E.J., Etzel, T.M., Çemen, I., Lovera, O.M. (2019) Extensional dynamics of the Menderes Massif, western Turkey.
<https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/518254>
- 2018 American Geophysical Union, Topical Session, Catlos, E.J., Etzel, T.M., Dubey, C.S., Kelly, E.D., Marston, R.A., Perez, T.J., Schmitt, A.K. (2018) Deciphering the exhumation history of the crystalline core of the Himalayas: new insight from garnet-bearing assemblages.
<https://www.researchgate.net/publication/339513715>
- 2016 Geological Society of America Topical Session, Catlos, E.J., Etzel, T.M., Kelly, E.D., Ashley, K.T., Çemen, I., Oyman, T. (2016) Response to slab roll-back: Revealing the geodynamic history of western Turkey from the Biga Peninsula to the Menderes Massif.
<https://doi.org/10.1130/abs/2016AM-281551>
- 2015 Geological Society of America Topical Session, Catlos, E.J., Shin, T.A. (2015) Timing subduction processes via in situ (in thin section) zircon and baddeleyite geochronology: Examples from northern Turkey. In: Session T168. Subduction, Fluids, Accessory Minerals, and Trace Elements: A Celebration of Sorena Sorensen's Career,
<https://gsa.confex.com/gsa/2015AM/webprogram/Paper263129.html>
- 2005 15th Annual V.M. Goldschmidt Conference Abstracts, Accessory Minerals Geochemistry, Catlos E.J., Dubey, C., Marston, R. Harrison, T.M. (2005) Monazite Records of Deformation within the Himalayan Main Central Thrust Shear Zone, NW India. *Geochimica et Cosmochimica Acta*, 69(10) Supplement 28, <https://goldschmidtabstracts.info/abstracts/abstractView?id=2005002117>

POSTDOCTORAL OR SENIOR RESEARCH COLLABORATIONS

- Drs. Phil Orlandini, Donggao Zhao, and James Maner (Former Lab Managers, DGS Electron Microbeam Facility)
- Dr. Kyle Ashley (former Visiting Assistant Professor, Dept. of Geology and Environmental Science, University of Pittsburgh)
- Dr. Nick Dygert (now Assistant Professor, Dept. of Earth and Planetary Sciences, University of Tennessee Knoxville)
- Dr. Eric Kelly (Senior Data Scientist, SparkCognition)

TEACHING PHILOSOPHY

My teaching objectives are for my students to learn fundamental geoscience content and to develop their computational, writing, and critical thinking skills. In addition, I aim to help my students function as successful geologists or, in the case of non-majors, help them understand how geology affects society.

Courses Taught at UT Austin (scale is five highest)

Semester	Enrollment	Course Rating Average	Instructor Average Rating	Interested in Teaching	Class Participation Encouraged	Instructor Knowledge
Undergraduate Courses						
GEO416K Earth Materials						
Fall 2010	81	4.1	4.3	4.5	not measured (nm)	4.5
Fall 2012	98	4.1	4.2	nm	nm	nm
Fall 2014	95	4.2	4.4	4.7	4.7	4.6
Fall 2016	61	4.1	4.0	4.4	4.5	4.5
Fall 2018	48	3.8	3.9	4.3	4.2	4.5
Fall 2020-COVIDonline	6	5.0	5.0	5.0	5.0	5.0
Fall 2020-COVIDhybrid	40	4.3	4.5	4.9	4.6	4.9
GEO302K Geology of National Parks						
Fall 2019	21	4.1	4.3	4.5	4.6	4.7
Fall 2020-COVIDonline	42	4.1	4.1	4.6	4.4	4.5
Fall 2021	56	4.4	4.5	4.8	4.5	4.7
Spring 2021	48	4.5	4.6	4.9	4.9	4.8
Spring 2022	68	4.1	4.5	4.9	4.8	4.8
Fall 2022	88	4.23	4.38	4.87	4.65	4.85
GEO401: Physical Geology						
Spring 2014	231	4.1	4.4	4.7	nm	4.7
Spring 2015	152	4.2	4.6	4.8	4.7	4.8
Spring 2016	136	4.2	4.4	4.7	4.6	4.6
Sum 2017 First *	4	3.6	4.2	5.0	4.8	4.6
Sum 2017 First *	10	3.7	4.0	4.6	4.6	4.3
Spring 2018	126	4.0	4.4	4.7	4.8	4.7
Spring 2020-COVIDonline transition	164	4.3	4.5	nm	nm	nm
GEO302Q Gems and Gem Minerals						
Fall 2022	36	4.42	4.42	4.84	4.42	4.53
GEO303: Introduction to Geology						
Spring 2010 *	195	3.8	3.7	4.1	4.0	nm
UGS 302 (Rocks & Water of The Middle East)						
Fall 2011 *	18	3.6	4.3	nm	nm	nm

Fall 2013	18	4.1	4.0	nm	nm	nm
GEO171T International Learning Seminar						
Spring 2016	3	4.0	4.3	4.7	5.0	5.0
Spring 2018	5	5.0	5.0	5.0	5.0	5.0
Graduate Courses						
GEO386: Metamorphic Petrology						
Spring 2015	4	5.0	5.0	5.0	5.0	5.0
Spring 2017	7	4.0	4.2	4.5	4.8	4.5
GEO390R: Analytical Methods: Electron Microbeam Technology						
Spring 2021	5	5.0	5.0	5.0	5.0	5.0
GEO391: Thermodynamics of Petrological Systems						
Fall 2018*	11	3.4	3.6	4.3	4.7	4.5
GEO341F Microstructures and Rock Rheology						
Spring 2022	6	5.0	5.0	5.0	5.0	5.0
GEO391: Geology of The Middle East						
Spring 2011	7	4.6	4.7	4.9	-	4.7
Spring 2012	5	4.2	4.6	4.8	-	4.6

* team-taught the course

Courses Elsewhere

- 2022 Soochow University International Programs, Taiwan, Visiting Faculty to teach "The Dynamic Earth" online course
- 2008-09 Middle East Technical University, Dept. of Geological Engineering, GEOE105: Introduction to Geological Engineering; GEOE213: Mineralogy; GEOE210: Petrography
- 2001-07 Oklahoma State University, Dept. of Geology, GEOL1014: Geology and Human Affairs; GEOL2254: Practical Mineralogy; GEOL2364: Elementary Petrology; GEOL5263: Electron Microprobe Analysis; GEOL4990: Planetary Geology (team taught)

STUDENT RESEARCH ADVISED

Primary graduate supervisor, UT Austin

Theses are available at Texas Scholar Works, <https://repositories.lib.utexas.edu>

- 2020-present Hector Garza, PhD
- 2019-present Daniel Campos, MS
- 2020 Thomas M Etzel, Ph.D., Garnet chemical zoning thermobarometry: method evaluation and application in the Menderes Massif, Turkey
- 2017 Andrew Parisi, MS, Geochronological Constraints on the Timing of Proposed Ordovician Meteorite Event Impact Structures in North America
- 2014 Kate Ataktürk, MS, Deciphering the P-T-t conditions of garnet-bearing metamorphic rocks in the Southern Menderes Massif, SW Turkey
- 2013 Tim Shin, MS, Tectonic evolution of Aegean metamorphic core complexes, Andros and Tinos Islands, Greece (co-supervised)
- 2012 Karen Black, MS, Geochemical and geochronological relationships between granitoid plutons of the Biga Peninsula, NW. Turkey
- 2011 Kathryn Huber, MS, Geochemistry and geochronology of meta-igneous rocks from the Tokat Massif, north-central Turkey
- 2011 Lauren Jacob, MS, Remote sensing, geochemistry, geochronology, and cathodoluminescence imaging of the Egrigoz, Koyunoba, and Alacam plutons, Northern Menderes Massif, Turkey

Oklahoma State University (direct supervision only, OSU had an MS program only)

Theses are available at ShareOk, <https://shareok.org/handle/11244/10460>

- 2009 Courteney Baker, MS, Deciphering the Evolution History of the Salihli and Turgutlu Granites, Menderes Massif, Western Turkey Using the Electron Microprobe, Ion Microprobe and Cathodoluminescence
- 2004 Cenk Ozerdem, MS, Thermobarometric Constraints on the Evolution of the Menderes Massif (Western Turkey): Insights into the Metamorphic History of a Complexly deformed Region

Served, Graduate Committees (UT Austin only)

- 2020 Liam Norris, PhD
- 2019 Scott Eckley, PhD
- 2017 Natchanan (Mint) Doungkaew, PhD • Patrick D Boyd, MS
- 2015 Ahmed Alnahwi, PhD • Mehmet O. Gurbuz, MS
- 2014 Menal Gupta, PhD
- 2013 Migdalys Salazar, PhD • Corinne Wong, PhD
- 2012 Jessica Errico, MS
- 2011 Autumn Kaylor, MS

Undergraduate Student Research Supervision, start dates, UT Austin only

h = JSG Honor's Research Program Student

- 2022 Nicholas Adelberg • Llewnosuke Priimak
- 2020 Rebekah January (Austin Community College) • David Keith
- 2019 Shania Goodwin • Leah Lievrouw • Jackson Phillips
- 2018 Gabriel Villasenor • Thomas Quintero
- 2017 Xiafei Zhao • Tyler Fu • Theresa Perez
- 2016 Emily Pease • Zoe Yin • Ashley Zare • Saloni Tandon
- 2015 Enrique Reyes • Kimberly Aguilera • Stephanie Suarez • Daniel Lizzardo-McPherson
- 2014 Colin Sturrock^h • Bridget Pettit • Chelsea H. Jones
- 2013 Pamela Speciale^h • Isis Garber
- 2012 Lindsey German^h • Abby Kenigsberg^h • Tyson McKinney
- 2011 Tim Shin^h • Heather Flynn

SERVICE

Editorial Work

- 2020-present Associate Co-Editor of AGU Books project Volume I. Compressional Tectonics: Plate Convergence to Mountain Building.
Associate Co-Editor of AGU Books project Volume II. Extensional Tectonics: Continental Breakup to Formation of Oceanic Basins.
Associate Co-Editor of AGU Books project Volume III. Strike-Slip Tectonics
- 2022- Editorial Board Member for the journal *Frontiers in Earth Science*
- 2017- Editorial Board Member for the journal *Episodes*
- 2015- Editorial Board Member for *Geodinamica Acta*, now *All Earth* (Taylor and Francis)

Conference Chair

- 2019 European Union-IN-TIME RISE: Workshop on geochronology and Mars exploration in Austin, TX (<https://www.jsg.utexas.edu/eu-in-time-rise/>)
- 2013 GSA-South Central Section Meeting in Austin TX
- 2008 The Donald D. Harrington Symposium on the Geology of the Aegean, Austin, TX (<https://iopscience.iop.org/article/10.1088/1755-1315/2/1/011001>)

Conference Session co-Chair

- 2022 AGU Fall 2022 "Oceanic and Continental Extensional Tectonics," with Ibrahim Çemen (University of Alabama).

- 2021 AGU Fall 2021 "Tectonic, Topographic, and Exhumation History of the Himalaya-Tibetan Orogen", with Rasoul Sorkhabi (University of Utah).
- 2020 GSA South Central Section Meeting "The Role of Geochronology in Constraining the Development of Earth's Lithosphere: Focus on the US South-Central Region, Mexico, and Beyond." With Rita Economos and J. Douglas Walker
- 2017 GSA South Central Section Meeting "Advances in Understanding Precambrian to Cenozoic Magmatic and Metamorphic Processes and their Bearing on Lithospheric Evolution of Southern Laurentia" with Michael DeAngelis and Richard Hansen
- 2016 GSA Annual Meeting "Rates in Metamorphism and Tectonism: From Mineral Growth to Orogenesis" with Thomas M. Etzel, Eric D. Kelly, and Kyle T. Ashley
- 2015 GSA Annual Meeting "Special Nepal (Gorkha) Earthquake Session" with Anke Friedrich
- 2012 GSA Annual Meeting, "Advances in Mineralogy and Petrology."

Service to Funding Agencies

- 2000-present Routinely review proposals for NSF-Tectonics, Petrology and Geochemistry, International, Continental Dynamics, Sedimentary Geology and Paleobiology, and Geography and Regional Science Divisions; Routinely review proposals for the Austrian Science Fund and Research Grants Council of Hong Kong
- 2017 served on 2 Review Panels (PSTAR and Solar System Workings)
- 2013-16 LEAD Science Reviewer, Standing Review Board for NASA Mars Organic Molecule Analyzer–Mass Spectrometer (MOMA-MS).
- 2011 served on NASA's panel for Mars Science Laboratory Participating Scientist Program.
- 2010 served on the NASA ROSES 2010 Solicitation for the Astrobiology Science and Technology for Exploring Planets (ASTEP) panel.
- served on an Independent Review Team for the MOMA- LDMS
- 2010 INVITED participant of NSF's Office of International Science and Engineering Workshop Planning activity to highlight best practices that integrate across multiple dimensions of university internationalization, particularly in science and engineering.
- 2009 reviewer, NIH Challenge Grants in Health and Science Research
- 2007 served on NASA's panel for the instruments UREY and MOMA served on NASA's PIDDP Peer Review Panel
- 2005 LEAD Science Reviewer for NASA's PIDDP Peer Review Panel
LEAD Science Reviewer for Mars Science Laboratory/Sample Analysis at Mars served on NASA's Interdisciplinary Exploration Science Review Panel
- 2004 served on NASA's Mars Science Laboratory Panel.
- 2003 served on NASA's Mars Instrumentation and Development Panel
- 2002 served on NSF's Tectonics Panel

Selected Geological Society of America (since 2011 only)

- 2009-20 Member, Management Board of the South-Central Section
- 2013-17 ELECTED Councilor; Liaison, Mineralogy, Geochemistry, Petrology Volcanology Division, Structural Geology and Tectonics Division, and Student Advisory Council
- 2015 Member, Ad hoc Committee focused on interest groups and divisions
- 2014-17 Councilor/Conferee, Diversity in the Geosciences Committee
- 2014-16 Councilor, Doris M. Curtis Memorial Fund for Women in Science Committee
- 2012-15 Member-At-Large, Committee for the Donath Medal (Young Scientist Award) Selection
- 2013-16 Councilor/Chair, Arthur L. Day Medal Awards Committee
- 2012-13 Vice Chair and Chair, Management Board of the South-Central Section
- 2011 INVITED to participate in the GSA Council Retreat: Strategic Planning Sessions

UT Austin Service (selected responsibilities) University

2009-present	UT Austin Fulbright Student Review Committee
2022	UT Austin Committee of a Task Force to Review and Rewrite Course Evaluation Lab Supplementary Form
2018	UT Austin Provost's Task Force on the Future of UT Libraries
2013	Review of the Faculty Activities Report (FAR) Electronic System
2013	Served, Selection Committee for UT Austin Faculty-Led Programs for Summer Abroad
2014-17	Member JSG Equipment Committee

Department and School

2015-present	Faculty Supervisor of the DGS Microbeam Facility; since served as the head of four committees to search for a Facility Manager
2015-present	JSG Library Advisory Committee
2019-present	Member, DGS Awards Committee
2022	Member, DGS-Bureau of Economic Geology Faculty Search in Earth Resources
2020	Member, DGS Department Head Search Committee
2019-22	DGS, Graduate School Admissions Committee
2021-22	DGS, Structural Geology Associate Professor Search Committee
2021-22	DGS, Distinguished Postdoctoral Search Committee
2019-21	JSG Ad Hoc Committee on graduate admissions, Graduate Studies Committee
2019-22	JSG Committee on membership review, Graduate Studies Committee
2018-21	JSG Diversity Committee
2015-21	Organize DGS DeFord Seminar Series (GEO193T)
2015-21	Organize JSG Master's Saturday Events for graduating MS student presentations.
2015	JSG Ad Hoc Committee on Strategic Planning for MS and MA Degrees
2017	Search committee for DGS Office Manager
2016-18	Member, DGS Awards Committee
2012-13	Undergraduate Advisor for the DGS Undergraduate Committee • Undergraduate Curriculum Review Committee • Undergraduate Academic Affairs Committee • Undergraduate Advisor for Environmental Science Institute Environmental Science program • DGS Representative for the ESI-EVS admissions committee
2010	Member, DGS Search Committee for a position in Tectonics and Geochronology
2010	Member, DGS Search Committee for a position in Structural Geology and Tectonics
2010	Supervised the DGS Petrography Contest

Mentoring Organizations

2020-present	Mentor in the Geosciences Empowerment Network, Champions of Diversity program
2009-present	UT Austin Campus Representative for the Fulbright Program
2013	Workshop for Early Career Geoscience Faculty, On the Cutting Edge
2013	Presenter for GirlTalk, to promote STEM education/careers for girls
2010-17	ELECTED Vice President, Austin Chapter of the Fulbright Alumni Association
2010-14	Lead Instructor for GeoFORCE, JSG Outreach Program

Reviews

2000-present	I routinely review manuscripts for peer-reviewed publications.
2019	McGraw Hill, review two chapters in an introductory geoscience textbook
2011	Pearson Education focus group for MasteringGeology™
2014	Pearson Education focus group for MasteringGeology™
2009	Reviewed art for each chapter of "Living with Earth," AGI, Prentice Hall Publishers. • Developed testbank questions for each chapter of "Living with Earth" • Reviewed critical thinking questions for Prentice Hall Publishers. • Prentice Hall focus group on media and assessment in the classroom • Reviewed Prentice Hall's basic skills website application

Other

2010 Expert Witness, deposed, 93rd Judicial District, Hidalgo Country, Texas

MEMBERSHIPS IN PROFESSIONAL SOCIETIES:

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

WEBSITES/SOCIAL MEDIA

Twitter @ElizabethCatlos • Twitter @EbeamUT • [Google Scholar](#) • [ResearchGate](#) • [ORCID](#) •
[LinkedIn](#) • [YouTube](#) • [Shutterstock](#)