ELIZABETH JACQUELINE CATLOS

Curriculum vitae

Associate Professor Department website • Research and Teaching website

The University of Texas at Austin • Jackson School of Geosciences • Dept. Earth and Planetary Sciences 1 University Station C1100 Austin, TX 78712-0254, USA Phone: 512-471-4762 • Email: ejcatlos@jsg.utexas.edu or ejcatlos@gmail.com

RESEARCH INTERESTS

Developing and applying geochemical and geochronological 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. Developing and applying models for heat, mass, and fluid flow along fault systems.

EDUCATION

| 2000 | Ph.D. | University of California Los Angeles | Geochemistry |
|------|-------|--|--|
| | | (UCLA) | |
| | Ph.D. | Committee: Drs. Mark Harrison (Chair), Cra | aig E. Manning, Laurence Smith, An Yin |
| | | Title: Geochronolo | ogic and Thermobarometric Constraints |
| | | on the Evolution of the M | Iain Central Thrust, Himalayan Orogen |
| 1999 | Phil | UCLA | Geochemistry |
| | Cand | | |
| 1994 | B.Sc. | University of California, San Diego | Chemistry w/ Spec. Earth |
| | | | Science |

PROFESSIONAL APPOINTMENTS

| 2008- | Associate Professor | Dept. Earth and Planetary Sciences (EPS) |
|---------|---------------------------|--|
| | | Jackson School of Geosciences (JSG) |
| | | The University of Texas at Austin (UT Austin) |
| 2020- | Affiliate Faculty | Center for Planetary Systems Habitability, UT Austin |
| 2019- | Affiliate Faculty | Center for Russian & Eastern European Studies |
| | | UT Austin |
| 2001-08 | Assistant-Associate Prof. | School of Geology, Oklahoma State University (OSU) |
| 2001 | Postdoctoral research | UCLA-Smithsonian Museum of Natural History |
| (01-08) | | Dept. Mineral Sciences |
| | | Postdoctoral Mentor: Dr Sorena Sorensen |

VISITING APPOINTMENTS

| Summer 2022 | Online Professor for "The Dynamic | Soochow University International |
|---------------|---|--------------------------------------|
| & Winter 2023 | Earth" online introductory geology course | Programs, Taiwan |
| Fall | Max Kade Distinguished Visiting | Universität Heidelberg, Institut für |
| 2017 | Professor | Geowissenschaften, Germany |
| Summer | Visiting Researcher | Dept. of Earth and Space Sciences, |
| 2015 | | UCLA, USA |
| 2008-09 | Senior Lecturer | Fulbright Program, Middle East |
| | | Technical University, Ankara, Turkey |
| 2007-08 | Donald D. Harrington Fellow Visiting | EPS, UT Austin, USA |
| | Faculty | |

FELLOWSHIPS AND AWARDS

| Research | | |
|----------|---|---|
| 2017 | Max Kade Distinguished Visiting | Universität Heidelberg, Institut für |
| | Professorship | Geowissenschaften, Germany |
| 2013 | Notable Paper | American Mineralogist, |
| | | https://doi.org/10.2138/am.2013.4336 |
| 2008-09 | Fulbright Lecturing Award | Middle East Technical University, |
| | | Turkey |
| 2007 | Fellow | Geological Society of America |
| 2007 | Young Innovator | Smithsonian Magazine |
| 2007-08 | Donald D. Harrington Fellowship | UT Austin |
| 2006 | Young Scientist Award (Donath Medal) | Geological Society of America |
| 2000 | Fellow | Institute of Geophysics and Planetary |
| | | Physics, UCLA |
| 1997 | Predoctoral Fellowship | Smithsonian Institution |
| 1994 | Undergraduate Summer Research | NASA |
| | Fellowship | |
| Teaching | | |
| 2023 | Carolyn G. and G. Moses Knebel Teachin | g Award for Introductory Course |
| | (Geology of National Parks) | |
| 2019-21 | UT Austin Experiential Learning Ambassa | ador based on distinguished |
| | accomplishments in teaching, mentoring, | and service to the UT Austin community |
| 2015 | Carolyn G. and G. Moses Knebel Teachin | g Award for Introductory Course |
| | (Introductory Geology) | |
| 2011 | UT Austin Texas Exes Teaching Award (E | arth Materials) |
| Service | | |
| 2021-22 | Selected as a mentor for the JSG NSF fun | ded Champions of Diversity Program |
| 2013-17 | Elected Councilor for the Geological Soci | ety of America |
| 2017 | JSG Outstanding Service Award: Female I | Faculty as a teamwork towards improving |
| | the workplace environment | |
| 2015 | Outstanding Reviewer for Earth and Plane | etary Science Letters, Elsevier |
| 2006 | Oklahoma State University College of Art | s and Sciences Junior Faculty Award |
| 2006 | Outstanding Reviewer for the Geological | Society of America Bulletin |

RESEARCH PROJECTS

| Sponsored Resea | arch Funding –Serves as PI/co-PI/co-I |
|-----------------|---|
| 06/1/15 - | National Science Foundation, International (1460050). Amount \$250,000. |
| 07/31/21 | PI: E.J. Catlos, co-PIs: B. Elliott (UT Austin, Bureau of Economic Geology, BEG), |
| | R. Kyle (UT Austin, JSG, Dept. EPS) |
| | International: Research Experiences for Students: Closing Oceans: Assessing the |
| | Dynamics of Turkish suture zones |
| | Primary role in organization and development. |
| 01/01/15 - | TUBITAK (Turkish Research Council) (114Y055T). Amount 300,008YTL. |
| 12/31/18 | PI: Tolga Oyman (Dokuz Eylül Üniversitesi, Turkey), co-PIs: E.J. Catlos, Melanie |
| | Kaliwoda (Ludwig-Maximilians-Universität München, Germany) |
| | Link Between Mineralization in Magmatic-Hydrothermal Systems associated with |
| | Granitoid Intrusions in NE of Yenice (Çanakkale, Biga Peninsula). |
| | Consultation role. |
| 01/01/08 - | National Science Foundation, International (0728519). Amount \$150,000. |
| 12/31/12 | PI: E.J. Catlos, co-PIs: I. Çemen (OSU, presently at Univ. Alabama), E. Atekwana |

| | (OSU, presently at UC Davis). |
|-------------------|---|
| | International: Research Opportunities in Extensional Dynamics for US |
| | Undergraduate and Graduate Geosciences Students in Western Turkey |
| | Primary role in organization and development. |
| 02/01/05 - | National Science Foundation, Tectonics (0440169). Amount: \$216,917. |
| 01/31/08 | PI: E.J. Catlos, co-PIs: I. Çemen (OSU), M. Kohn (Boise State University). |
| | Collaborative Research: Extensional Unroofing of the Central Menderes |
| | Metamorphic Complex, Southwestern Turkey. |
| | Primary role in organization and development. |
| 8/1/02 - | National Science Foundation, International (Standard Grant). Amount: \$36,000. |
| 8/31/05 | PI E.J. Catlos, co-PI: R. Marston (OSU, presently at Kansas State University). |
| | Investigation of Activity along the Himalayan Main Central Inrust: Present |
| | Geomorphology and Past Slip, Garnwal, NW India. |
| 6/1/02 | National Science Foundation Astronomy (0138942) |
| 5/31/05 | PI: R Marston co-PI: E I Catlos |
| 5/51/05 | Subcontract from New Frontiers-Research Experience for Undergraduates in the |
| | Space and Planetary Sciences |
| | Primary role in student supervision and minor role in organization and |
| | development. |
| Sponsored Resear | rch Funding –Serves as Key Personnel Role |
| 11/18/18- | European Union Programme Horizon 2020 MSCA-RISE #823934. |
| 10/30/23 | Amount \$15,000. |
| | PI: Alessio di Iorio, Alma Sistemi Srl (Italy); with co-PIs and collaborators at |
| | Cyprus Space Exploration Organisation, Universita degli Studi "Gabriele D'Ampungio" (Italy), Università degli Studi di Soccori (Sordino, Italy), Universidad |
| | Complutence Madrid (Spain): Space System Solutions (Cyprus): Sensia Solutions |
| | (Spain) |
| | Project IN-TIME: Developing a Luminescence Instrument for Geochronology on |
| | Mars. |
| | U.S. partner collaborator. Organized a conference at UT Austin regarding Martian |
| | geochronology, participated in project discussions and provided lectures at |
| | international conferences regarding research in planetary habitability. |
| Internal Research | h Funding (UT Austin) – Serves as PI/co-PI/Co-I |
| 2023 | JSG Equipment Matching Program. Amount \$1,545. |
| | PI: E.J. Catlos, co-PIs R. Kyle, K. Milliken (UT Austin, JSG) |
| | Funds for the Repair of the Dept. of Earth and Planetary Sciences X-ray |
| | Diffaction Instrument. Repaired and upgraded the EPS Dept. YPD system, which is of use for several |
| | student and researcher projects in the electron microbeam facility |
| 2020 | Vice President for Research (VPR) Office Special Research Grant |
| _0_0 | PI: E.J. Catlos Amount \$1,000. |
| | Vertebrate Lies; Arthropods were the First Land Animals. |
| | Provided funding for geochronological analyses. |
| 2019 | Faculty Innovation Center, Faculty DIY Award Amount \$500. |
| | PI: E.J. Catlos |
| | Creating Videos on Site (at a dig in the UK) for an Introductory Geology Course. |
| 2010 10 | Provided funding for a GoPro to take videos in the field for Virtual Field Trips. |
| 2018-19 | Center for Teaching and Learning, Faculty Innovation Grant Amount \$9,100. |
| | FI: E.J. Callos Incornorating Electron Microbeam Technology into Consciences Underson durity |
| | incorporating Election Microbeam lechnology into Geosciences Unaergraduate |

| | Education. |
|-----------------|---|
| | Provided funding for experiential learning for UT Austin students in the EPS |
| | Electron Microbeam facility who were taking GEO416K: Earth Materials. |
| 2018-19 | Texas Global, Global Classrooms Curriculum Integration Grant. Amount \$6,500. |
| | PI: E.J. Catlos, co-PI Axel Schmitt, Universität Heidelberg, Institut für |
| | Geowissenschaften Germany |
| | Integrating the Analysis of Silver Ore from a German Mine into the Education of |
| | Students in CE0/16K: Earth Materials |
| | Browided funding for international opportunities for learning for UT Austin students |
| | who were taking CEO/16V. Earth Materials |
| 2017 | Who were taking GEO410K. Earth Materials. |
| 2017 | JSG Equipment Matching Program. Amount \$5,775. |
| | PI: J. Maner, co-PIS E.J. Catlos, J. Gardner (UT Austin, EPS) |
| | A Request for Cost-Sharing Financial Support for the Electron Microbeam |
| | Laboratory |
| | Repaired and upgraded the EPS Electron Microprobe and Scanning Electron |
| | Microscope systems, which are of use for several student and researcher projects in |
| | the electron microbeam facility. |
| 2017 | JSG Equipment Matching Program. Amount \$22,600. |
| | PI: EJ Catlos, co-PI: D. Zhao, J. Gardner, Behr, W. |
| | Request for Funds for the Dept. Geological Sciences Electron Microbeam Facility |
| | Service Agreements |
| | Provided funds for service agreements on instruments in the electron microbeam |
| | facility. |
| 2014 | UT Austin, JSG Seed Grant Amount \$20,173. |
| | PI: E.J. Catlos, coPI: P. Eichhubl (Bureau of Economic Geology, JSG, UT Austin) |
| | Ion Microprobe Stable Isotope Analyses of Fracture-filling Cement—Implications |
| | for Basin Structural and Pore Fluid Evolution in Unconventional Oil and Gas |
| | Reservoirs |
| | Provided funding for stable isotopic analyses of calcite cements using a large-radius |
| | ion microprobe for preliminary data for a proposal Supported students and |
| | generated data for a paper and proposal |
| 2014 | ISG Equipment Matching Program |
| 2014 | Di E L Cotlog og Dig D Kulo K Millikon D Martindalo C Korong D |
| | Processor T. Ovinn (UT Austin ISC) |
| | Europe for the Bongin of the Dont of Coological Sciences Banch Ten |
| | Funds for the Repair of the Dept. of Geological Sciences Bench-lop |
| | Cathodoluminescence (CL) System |
| | Repaired and upgraded the EPS Dept. CL system, which is of use for several |
| 2012 | student and researcher projects in the electron microbeam facility. |
| 2012 | JSG Equipment Matching Program. Amount \$6,718. |
| | PI: E.J. Catlos, co-PIs R. Kyle, K. Milliken (UT Austin, JSG) |
| | Funds for the Repair of the Dept. of Geological Sciences Bench-Top |
| | Cathodoluminescence System. |
| | Repaired and upgraded the EPS Dept. CL system, which is of use for several |
| | student and researcher projects in the electron microbeam facility. |
| Student Funding | g External Research Awards, Mentorship Role |
| 2023 | Geological Society of America (GSA), Charles A. & June R.P. Ross Research Grant |
| | Graduate student (Ph.D.) Hector Garza Amount \$2,652. |
| | Applied towards the Ph.D. research. |
| 2022 | GSA, Student Research Grant Award |
| | Graduate student (Ph.D.) Hector Garza Amount \$2,500. |
| | Applied towards the Ph.D. research. |
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| 2019 | GSA South-Central Section Undergraduate Research Grant | A |
|-----------------|---|---|
| 2016 | Gabriel Villasenor | Amount: \$300. |
| 2010 | GSA South-Central Section Undergraduate Research Grant | 1 mounts \$500 |
| 2015 | Killiberty Aguilera | Allount: \$500. |
| 2013 | Stanhonia Suaraz | Amount: \$50 |
| 2015 | GSA South Control Socian Undergraduate Descerate Grant | Amount. \$50 |
| 2013 | Daniel Lizzerde, McDherson | 1 mount \$200 |
| 2014 | American Institute of Professional Goologists (AIPG) follow | Alloulli, \$500. |
| 2014 | Colin Sturrock | Amount: \$1000 |
| 2011 | Houston Geological Society Undergraduate Scholarshin Fou | Allount. \$1000. |
| 2011 | Pamela Speciale | Amount: \$2000 |
| Student Funding | I Internal Research Awards Montorshin Role | Amount. \$2000. |
| | Champions of Diversity program: Geosciences Empowermen | at Natwork |
| 2022-23 | Undergraduate Llewnosuke Priimak | $\frac{111101001K}{4000000000000000000000000000000000000$ |
| | Parspactives on the Development of the Himalayas | Amount \$5,100. |
| 2022 23 | Center for Eastern European Studies, Professional Developm | ont Award |
| 2022-23 | Graduate student Daniel Campos (M S) | A mount: \$750 |
| | Drovides for conference travel | Amount. 9750 . |
| 2021 22 | Center for Eastern European Studies, Professional Developm | ont Award |
| 2021-22 | Graduate student Daniel Campos (M S) | Amount: \$500 |
| | Dravides for conference travel and research | Amount. \$500. |
| 2021 | Center for Dianetary Systems Habitability | Amount \$28,958,50 |
| 2021 | Graduate student (Ph.D.) Hector Garza | Amount \$20,930.30. |
| | Support for one semester, travel, and research | |
| 2019-20 | Center for Eastern European Studies, Professional Developm | ent Award |
| 2017-20 | Graduate student Daniel Campos (M S) | Amount: \$1,000 |
| | Provides for research funding | Amount. \$1,000. |
| 2019-20 | Undergraduate Research Fellowships (UT Austin-URF) with | ISG match |
| 2017-20 | Undergraduate Research Fellowships (01 Austri-ORF) with | Amount: \$2 000 |
| | Dating silver are from the Anna-Flisabeth Mine Schriesheim | Germany |
| 2019 | UT Austin-URF with ISG match | Amount: \$1 500 |
| 2017 | Undergraduate Gabriel Villaseñor | 7 milount. \$1,500 |
| | Using Geochemistry and Geochronology to Understand the | Nature of an Ancient |
| | Ocean (Fastern Europe Slovakia) | indune of an incient |
| 2018 | Office of Undergraduate Research 2018 Research or Confere | nce Travel Scholarship |
| 2010 | Undergraduate Gabriel Villaseñor | Amount: \$350. |
| | Undergraduate Theresa Perez | Amount: \$350. |
| 2018 | Center for Eastern European Studies Professional Developme | ent Award |
| _010 | Undergraduate Theresa Perez | Amount: \$800. |
| | Undergraduate Thomas Ouintero | Amount: \$800. |
| 2018 | UT Austin-URF with JSG match | |
| | Undergraduate Theresa Perez | Amount \$1,100. |
| | Burial and Exhumation Events in High Tatra Mountains. Slo | vakia |
| 2017 | Texas Global, Global Research Fellowship | |
| | Graduate Student Thomas Etzel (Ph.D.) | Amount: \$5,000. |
| | Provided for travel and research funding. | |
| 2016 | UT Austin-URF with JSG match | |
| | Undergraduate Emily Pease | Amount \$1.940. |
| | Timing Ocean Floor Obduction during Plate Collision in the | Himalayas |
| 2015 | UT Austin-URF with JSG match | |

| | Undergraduate Colin Sturrock | Amount: \$2,000. |
|------|--|---------------------|
| | Fluids along the North Anatolian Fault, Niksar Basin, Nort | h Central Turkey: |
| | Insight from Stable Isotopic and Geochemical Analysis of Calcite | e Veins |
| 2013 | UT Austin-URF with JSG match | |
| _010 | Undergraduate Bridget Pettit | Amount: \$2,000 |
| | Understanding the Role of Strike-slip Faulting as Oceans Cla | ose (North Central |
| | Turkey | uter and the second |
| | Undergraduate Colin Sturrock | Amount: \$2,000. |
| | Stone Decay and Catastrophic Floods: Short-term Water Dan Tiles | nage of Limestone |
| | Undergraduate Abby Kenigsberg | Amount: \$2.000. |
| | Exploring the Potential of Tourmaline in the Evolution of the | e Himalavan Main |
| | Central Thrust | ,, j |
| 2012 | UT Austin-URF with JSG match | |
| | Undergraduate Pamela Speciale | Amount: \$2,000. |
| | The Relationship of ~6 Ma Zircons in the Beypazari granitoid | oluton to the North |
| | Anatolian Fault, central Turkey | |
| | Undergraduate Lindsey German | Amount: \$2,000. |
| | Deciphering the Dynamics of the Simav Fault in Western Turkey | |
| 2011 | UT Austin-URF with JSG match | Amount: \$2,000. |
| | Undergraduate Tim Shin | |
| | An Investigation of Granitoid Plutons and Blueschist/Eclog | ite Pods from an |
| | Exhumed Subduction Zone in Sivrihisar, Turkey | - |

PUBLICATIONS

Peer-Reviewed Journal and Book Articles

- Catlos, E.J., Çemen, I. (2023). Chapter 1: When plates collide. In: Catlos, E.J., Çemen, I. (Eds.), Compressional tectonics: Plate convergence to mountain building, Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 3-20. https://doi.org/10.1002/9781119773856.ch1
- Catlos, E.J., Çemen, I. (2023). Chapter 4: A review of the dynamics of subduction zone initiation in the Aegean Region. Volume 1. Compressional tectonics: Plate convergence to mountain building. In: Catlos, E.J., Çemen, I. (Eds.), Compressional Tectonics: Plate Convergence to Mountain Building, Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 87-117. https://doi.org/10.1002/9781119773856.ch4
- Catlos, E.J. (2023). Chapter 6: Records of Himalayan metamorphism and contractional tectonics in the central Himalayas (Darondi Khola, Nepal). In: Catlos, E.J., Çemen, I. (Eds.), Compressional tectonics: Plate convergence to mountain building, Volume 1, Geophysical Monograph 277, American Geophysical Union, John Wiley & Sons, Inc., 155-201 https://doi.org/10.1002/9781119773856.ch6
- Catlos, E. J., Dubey, C. S., Etzel, T. M. (2022). Imbrication and erosional tectonics recorded by garnets in the Sikkim Himalayas. Geosciences, 12(4), 146. https://doi.org/10.3390/geosciences12040146
- Catlos, E.J., Broska, I., Kohút, M., Etzel, T.M., Kyle, J.R., Stockli, D.F., Miggins, D.P., Campos, D. (2022). Geochronology, geochemistry, and geodynamic evolution of Tatric granites from crystallization to exhumation (Tatra Mountains, Western Carpathians). Geologica Carpathica, 73(6), 517-544. <u>https://doi.org/10.31577/GeolCarp.73.6.1</u>
- 6. Catlos, E.J., Etzel, T.M., Çemen, I. (2022). Extensional Tectonics in Western Anatolia, Turkey: Eastward continuation of the Aegean Extension. In: Catlos, E.J., Çemen, I. (Eds.), Extensional tectonics: Continental breakup to formation of oceanic basins, Volume 2, Geophysical Monograph

278, American Geophysical Union, John Wiley & Sons, Inc. https://doi.org/10.1002/essoar.10508671.1

- 7. Brookfield, M.E., Catlos, E.J., Suarez, S.E. (2022). Vertebrate lies; arthropods were the first land animals. Geology Today (UK), 38(2), 65-68. <u>https://doi.org/10.1111/gto.12383</u>
- Etzel, T.M., Catlos, E.J. (2021). Garnet chemical zoning based thermobarometry: Method evaluation and applications in the Menderes Massif, Western Turkey. Geosciences, 11(12), 505. https://doi.org/10.3390/geosciences11120505
- 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, 13. <u>https://doi.org/10.13133/2280-6148/17274</u>
- Villaseñor, G., Catlos, E.J., Broska, I., Kohút, M., Hraško, L., Aguilera, K., Etzel, T.M., Kyle, J.R., Stockli, D.F. (2021). Evidence for widespread mid-Permian magmatic activity related to rifting following the Variscan orogeny (Western Carpathians). Lithos, 290-391, 106083. <u>https://doi.org/10.1016/j.lithos.2021.106083</u>
- 11. Villaseñor, G., Catlos, E.J., Broska, I., Kohút, M., Hraško, L., Aguilera, K., Etzel, T.M., Kyle, J.R., Stockli, D.F. (2021). Western Carpathian mid-Permian magmatism: Petrographic, geochemical, and geochronological data. Data-in-Brief, 36, 107026. <u>https://doi.org/10.1016/j.dib.2021.107026</u>
- Catlos, E. J., Perez, T.J., Lovera, O.M., Dubey, C.S., Schmitt, A.K., Etzel, T.M. (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. <u>https://doi.org/10.1029/2020GC009353</u>
- Catlos, E.J., Mark, D.F., Suarez, S.E., 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. <u>https://doi.org/10.1144/jgs2020-107</u>
- Brookfield, M.E., Catlos, E.J., Suarez, S. (2020). Myriapod divergence times differ between molecular clock and fossil evidence: U/Pb zircon ages of the earliest fossil millipede-bearing sediments. Historical Biology, 33(10), 2014-2018. <u>https://doi.org/10.1080/08912963.2020.1762593</u>
- Etzel, T.M. Catlos, E.J., Çemen, I., Ozerdem, C., Oyman, T., Miggins, D. (2020). Documenting exhumation in the central and northern Menderes Massif (western Turkey): New insights from garnetbased P-T estimates and K-feldspar ⁴⁰Ar/³⁹Ar geochronology. Lithosphere,1, 8818289. <u>https://doi.org/10.2113/2020/8818289</u>
- Catlos, E.J., Pease, E.C., Dygert, N., Brookfield, M., Schwarz, W.H., Bhutani, R., Pande, K., Schmitt, A. (2019). Nature, age and emplacement of the Spongtang ophiolite, Ladakh, NW India. Journal of the Geological Society 176 (2), 284-305. <u>https://doi.org/10.1144/jgs2018-085</u>
- Etzel, T.M., Catlos, E.J., Atakturk, K., 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
- Catlos, E.J., Lovera, O.M., Kelly, E.D., Ashley, K.T., Harrison, T.M., Etzel, T.M. (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. <u>https://doi.org/10.1029/2018TC005144</u>
- 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. <u>https://doi.org/10.3390/resources6030036</u>
- Suarez, S.E., 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. <u>https://doi.org/10.1371/journal.pone.0179262</u>
- 21. Sturrock, C.P., Catlos, E.J., Miller, N.R., Akgun, A., Fall, A., Gabtov, R., Yilmaz, I.O, Larson, T., Black, K. (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. <u>https://doi.org/10.1016/j.jsg.2017.06.004</u>

- Catlos, E.J., Miller, N.M. (2016). Ion microprobe ²³²Th-²⁰⁸Pb ages from the high common Pb Amelia pegmatite monazite, Virginia: Implications for Alleghenian tectonics. American Journal of Science, 316, 470-503. <u>https://doi.org/10.2475/05.2016.03</u>
- Catlos, E.J., Reyes, E., Brookfield, M., Stockli, D.F. (2016). Age and Emplacement of the Permian-Jurassic Menghai Batholith, Western Yunnan, China. International Geology Review, 59(8), 919-945. <u>https://doi.org/10.1080/00206814.2016.1237312</u>
- 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, 26(6) 42-43. <u>https://doi.org/10.1130/GSATG278GW.1</u>
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- Catlos, E.J., Lovera, O.M., Kelly, E.D., Ashley, K.T., Harrison, T.M., Etzel, T.M. (2018). Modeling High-Resolution Pressure-Temperature Paths Across the Himalayan Main Central Thrust (Central Nepal): Implications for the Dynamics of Collision. Abstract V23B-06 presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec., <u>https://www.researchgate.net/publication/339513736</u>.
- Catlos, E.J., Tandon, S., Etzel, T., Kohut, M., Broska, I., Stockli, D., Elliott, B.A., Aguilera, K., Yin, Z. (2018). Comparing in situ U-Pb zircon and Th-Pb monazite ages from High Tatra granitoids, Slovakia. 5th Central-European Mineralogical Conference (CEMC) and 7th Mineral Sciences in the Carpathians Conference (MSCC), <u>https://www.researchgate.net/publication/331179106</u>.
- Etzel, T.M., Catlos, E.J., Kelly, E.D., Cemen, I., Atakturk, K.R. Ozerdem, C. (2018). Tectonometamorphic evolution of the Southern and Central Menderes Massif, western Turkey. Abstract T51F-0224, presented at 2018 AGU Fall Meeting, Washington, D.C., 10-14 Dec., <u>https://www.researchgate.net/publication/339513244</u>.
- 31. Etzel, T.M., Catlos, E.J., Kohut, M., Broska, I., Elliott, B.A., Stockli, D., Miggins, D., O'Brien, T., Tandon, S., Aguilera, K., Yin, Z. (2018). Dating the High Tatra Mountains, Slovakia: Tectonic Implications. 5th Central-European Mineralogical Conference (CEMC) and 7th Mineral Sciences in the Carpathians Conference (MSCC), <u>https://www.researchgate.net/publication/331179176</u>.

- Parisi, A.F., Catlos, E.J., Brookfield, M., Miggins, D. (2018). Thermochronological insights on the timing of the Slate Islands impact structure, Lake Superior, Canada. GSA Abstracts with Programs, 50(6). <u>https://doi.org/10.1130/abs/2018AM-319612</u>.
- 33. Çiçek, M., Oyman, T., Palmer, M.R., Catlos, E.J., Selby, D., Michalik, A., Cooper, M.J. (2017). Geochronology and isotope (Sr, Nd and Pb) geochemistry of the Oligocene intrusions and associated hydrothermal mineralization in the northeast of Yenice, NW Turkey, 2017 Goldschmidt Conference, <u>https://goldschmidtabstracts.info/abstracts/abstractView?id=2017003173</u>.
- Etzel, T.M., Catlos, E.J., Kelly, E.D., Cemen, I., Ozerdem, C., Atakturk, K (2017). Defining conditions of garnet growth across the central and southern Menderes Massif, western Turkey. Abstract T41B-1342 presented at the 2017 AGU Fall Meeting, New Orleans, LA. <u>https://agu.confex.com/agu/fm17/meetingapp.cgi/Paper/245576</u>.
- 35. Pease, E.C., Dygert, N., Catlos, E.J., Brookfield, M. (2017). New geochemical and thermochronologic constraints on the tectonic affinity, cooling history, and timing of obduction of the Spongtang ophiolite, Northwest India. GSA Abstracts with Programs, 49(1). <u>https://doi.org/10.1130/abs/2017SC-289437</u>.
- Pease, E.C., Dygert, N., Catlos, E.J., Brookfield, M. (2017). Timing of obduction, tectonic affinity, and cooling history of the Spongtang ophiolite, northwest India. GSA Abstracts with Programs, 49(6). <u>https://doi.org/10.1130/abs/2017AM-305324</u>.
- Yin, Z., Tandon, S., Aguilera, K.N., Etzel, T.M., Catlos, E.J., Elliott, B., Kyle, R.J. (2017). Lessons learned from an international research experience from the underrepresented student perspective. GSA-South Central Section Meeting, Abstracts with Programs, 49(1). <u>https://doi.org/10.1130/abs/2017SC-289189</u>.

BLOGS AND MEDIA COVERAGE OF WORK

- 1. Catlos, E.J., Suarez, S.E., Brookfield, M.E. (2020). Behind the Paper: World's oldest bug is fossil millipede from Scotland. Springer Nature, Ecology & Evolution, https://ecoevocommunity.nature.com/posts/world-s-oldest-bug-is-fossil-millipede-from-scotland
- 2. Astronomer Rocks (Korean) (2020). The world's oldest bug fossil http://www.astronomer.rocks/news/articleView.html?idxno=88999
- 3. *Big Think (2020):* This might be the oldest creature to have ever lived on land: Scientists think an insect similar to the modern millipede crawled around Scotland 425 million years ago, making it the first-ever land-dweller.

https://bigthink.com/hard-science/first-creature-to-live-on-land/

- 4. *Cnet.com* (2020): Meet the world's oldest bug, a 425-million-year-old millipede fossil. https://www.cnet.com/science/meet-the-worlds-oldest-bug-a-425-million-year-old-millipede-fossil/
- 5. *Daily Mail (2020)*: World's oldest 'bug' is a fossilized 425-million-year-old millipede discovered on a Scottish Island that suggests the ancient creatures evolved from water to live on land in just 40 million years.

https://www.dailymail.co.uk/sciencetech/article-8367057/Worlds-oldest-bug-fossilized-425-million-year-old-millipede-discovered-Scottish-Island.html

- 6. *Der Standard (Austria) (2020):* Tausendfüßer ist das älteste Krabbeltier der Welt (Millipede is the oldest crawling animal in the world).
- https://www.derstandard.at/story/2000117856488/tausendfuesser-ist-das-aelteste-krabbeltier-der-welt 7. *FoxNews.Com* (2020): World's oldest bug discovered on Scottish island.
- https://www.foxnews.com/science/worlds-oldest-bug-scottish-island
- 8. *Futurity.org* (2020): Millipede fossil takes 'world's oldest bug title.' <u>https://www.futurity.org/millipede-fossil-worlds-oldest-bug-2376812/</u>
- 9. *Science Daily.com* (2020): World's oldest bug is fossil millipede from Scotland. https://www.sciencedaily.com/releases/2020/05/200528115831.htm

- 10. *The Times (2020)*: Hebridean millipede fossil is 'oldest bug on Earth. <u>https://www.thetimes.co.uk/article/hebridean-millipede-fossil-is-oldest-bug-on-earth-cfc9tq5kv?region=global</u>
- 11. *Technology Networks.com* (2020): Scottish Millipede Is World's Oldest Bug Fossil. https://www.technologynetworks.com/tn/news/scottish-millipede-is-worlds-oldest-bug-fossil-335452
- 12. *UT News, Science & Technology* (2020): World's Oldest Bug is Fossil Millipede from Scotland. <u>https://news.utexas.edu/2020/05/27/worlds-oldest-bug-is-fossil-millipede-from-scotland/</u>
- 13. Daily Mail (2017): Ancient Scottish millipede WASN'T the first air breathing land animal, Texas undergrad proves (and scientists admit they now don't know what was). <u>https://www.dailymail.co.uk/sciencetech/article-4669222/Ancient-millipede-not-air-breather-land.html</u>
- 14. *The Daily Texan (2017)*: Former Jackson School of Geosciences undergraduate rewrites geological history.

https://thedailytexan.com/2017/10/26/former-jackson-school-of-geosciences-undergraduate-rewrites-geological-history/

- 15. *Phys.Org* (2017): Ancient animal thought to be first air breather on land loses claim to fame. https://phys.org/news/2017-07-ancient-animal-thought-air-breather.html
- 16. *Science Daily.com* (2017): Ancient animal thought to be first air breather on land loses claim to fame. https://www.sciencedaily.com/releases/2017/07/170705132945.htm
- 17. UT Austin, Jackson School Newsletter (2017): Ancient Animal Thought to be First Air Breather on Land Loses Claim to Fame. <u>https://www.jsg.utexas.edu/news/2017/07/ancient-animal-thought-to-be-first-air-breather-on-landloses-claim-to-fame/</u>
- 18. *UT News, Science & Technology (2017):* Ancient Animal Thought to be First Air Breather on Land Loses Claim to Fame.

https://news.utexas.edu/2017/07/05/animal-thought-to-be-first-air-breather-loses-claim-to-fame/

INVITED PRESENTATIONS (SINCE 2008 ONLY)

External Universities

| 2022 | University of Nevada Las Vegas, Dept. Geoscience |
|--------------|---|
| | University of Louisiana, Lafayette, School of Geosciences New insights into the uplift of the Himalayas through Advances in Metamorphic Petrology (general geology seminar title) |
| 2021 | University of New Mexico, Dept. Earth and Planetary Sciences |
| 2019 | UCLA, Dept. Earth, Planetary, and Space Sciences |
| 2018 | University of Houston, Dept. Earth and Atmospheric Sciences |
| 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 |
| 2010 | Pennsylvania State University, Geosciences Dept. |
| | Pennsylvania NASA Space Grant Consortium |
| 2008 | University of Arkansas, Dept. of Geology |
| Societies an | d Conferences |
| 2023 | IN TIME project Final Conference, Roma, Italy; Sala Conferenze SPAZIO EUROPA "European Parliament delegation in Italy" Challenges in Dating Impact Craters on Earth |
| | Slovak Academy of Sciences Annual Meeting, Smolenice, Slovakia Exhumation of the High Tatra Mountains and implications for the Western Carpathians |

| | (Slovakia). |
|----------|---|
| | Be In-Time on Mars Conference, Summer School, Algehro, Sardinia, Italy |
| | Basic problems of dating terrestrial impact craters: example from the formation of the Ames |
| | Astrobleme, Oklahoma, USA |
| 2022 | Universidad Computense Madrid, Ages of Mars conference, Madrid, Spain |
| | Exploring the timing and dynamics of life terrestrialization on Earth |
| 2019 | American Geophysical Union, Topical Session |
| | Extensional dynamics of the Menderes Massif, western Turkey. |
| 2018 | <u>American Geophysical Union</u> Tenical Session |
| 2018 | Deciphering the exhumation history of the crystalline core of the Himalayas: new insight |
| | from garnet-bearing assemblages https://www.researchgate.net/publication/339513715 |
| 2017 | Geological Society of America-South Central Section, Panelist |
| | Geoscience Career Exploration |
| 2016 | Geological Society of America Topical Session |
| | 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 |
| | Geological Society of America 2016 Annual Meeting Moderator |
| | Women in Geology Career Pathways Reception |
| 2015 | Geological Society of America Topical Session: Subduction, Fluids, Accessory Minerals, |
| | and Trace Elements: A Celebration of Sorena Sorensen's Career. |
| | Timing subduction processes via in situ (in thin section) zircon and baddeleyite |
| | https://gsa.confex.com/gsa/2015AM/webprogram/Paper263129.html |
| | |
| | Geological Society of America, Talk to the On-to-the-Future Conort at the 2015 Annual Masting on the Future Student Engagement on CSA Committees |
| 2014 | Geological Society of America Talk to the On-to-the-Future Cohort at the 2014 Annual |
| 2014 | Meeting |
| | Future Student Engagement on GSA Committees |
| 2013 | Geological Society of America 2013 Women in Geology Mentor Program, sponsored by |
| | Shell and Subaru of America |
| 2005 | 15th Annual V.M. Goldschmidt Conference |
| | Accessory Minerals Geochemistry, Monazite Records of Deformation within the Himalayan |
| | Main Central Thrust Shear Zone, NW India. |
| | https://goldschmidtabstracts.info/abstracts/abstractView?id=2005002117 |
| Internal | Presentations (UT Austin only) |
| 2023 | DeFord Lecture: AFTERSHOCKS: New insights into the dynamics of Himalayan orogenesis |
| | provided by the 25 April 2015 NEPAL EARTHQUAKE (MW 7.8) Available at: https://www.youtube.com/wetch?y=dyrEDIt5p1s&footure=youtu.bo |
| 2023 | Champions of Diversity Seminar Series presentations to students |
| 2023 | Workshop on Attending a Scientific Conference for the First Time; Workshop on Conducting |
| | International Geoscience Fieldwork |
| 2022 | Lithosphere Dynamics Seminar; Stages in the development of the High Tatra Mountains |
| | (Slovakia, Western Carpathians): Implications models of extrusion tectonics Available at: |
| | https://www.youtube.com/watch?v=KhYDzobSmBE |
| | Geosciences Leadership Organization for Women |
| | Workshop on Conducting International Geoscience Fieldwork |

| 2020 | Center for Teaching and Learning Seminars |
|------|--|
| | Bringing the Field into Introductory Geosciences Classrooms |
| | Plans for moving forward after COVID: Recovering from the Derailment |
| 2018 | Planetary Habitability Pop-Up Institute |
| | Searching for Life from a Mineralogical and Geological Perspective |
| 2015 | Geosciences Leadership Organization for Women |
| | Rock of ages: Practicing field geology in challenging international environments |
| 2011 | Undergraduate Geological Society |
| | Rock of ages: Practicing field geology in challenging international environments |
| 2008 | Texas Earth Science Revolution program |

CONFERENCE ACTIVITTY/PARTICIPATION

Conferences Organized: Chair as Primary Role

| 2019 | European Union-IN-TIME RISE: Workshop on Geochronology and Mars Exploration. |
|---------|---|
| | Location: Austin, TX, https://www.jsg.utexas.edu/eu-in-time-rise/ |
| | Chair and primary organizer with Alessio Di Iorio, ALMA SISTEMI S.r.l. (Italy) and |
| | Marcello Coradini, Director, Space Systems Solutions (Cyprus) |
| 2013 | Geological Society of America-South Central Section 47th Annual Meeting, Austin TX. |
| | Primary Meeting Chair, https://gsa.confex.com/gsa/2013SC/webprogram/start.html |
| 2008 | The Donald D. Harrington Symposium on the Geology of the Aegean, Austin, TX |
| | Primary Meeting Chair, https://iopscience.iop.org/article/10.1088/1755-1315/2/1/011001 |
| Confere | nce Sessions Co-chaired |
| 2022 | American Geophysical Union Meeting Fall 2022 |
| | Oceanic and Continental Extensional Tectonics |
| | with Ibrahim Çemen (University of Alabama). |
| 2021 | American Geophysical Union Meeting Fall 2021 |
| | Tectonic, Topographic, and Exhumation History of the Himalaya-Tibetan Orogen |
| | with Rasoul Sorkhabi (University of Utah). |
| 2020 | Geological Society of America-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 (Southern Methodist University) and J. Douglas Walker (Univ. Kansas) |
| 2017 | Geological Society of America-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 (Univ. Arkansas, Little Rock), Richard Hansen (Texas Christian |
| | Univ.) |
| 2016 | Geological Society of America-Annual Meeting |
| | Rates in Metamorphism and Tectonism: From Mineral Growth to Orogenesis |
| | with Thomas M. Etzel, Eric D. Kelly, and Kyle T. Ashley (UT Austin) |
| 2015 | Geological Society of America-Annual Meeting |
| | Special Nepal (Gorkha) Earthquake Session |
| | with Anke Friedrich (Ludwig-Maximilians-University of Munich, Germany) |
| 2012 | Geological Society of America- Annual Meeting |
| | Advances in Mineralogy and Petrology |
| | with John C. Ayers (Vanderbilt University) |

TEACHING EXPERIENCE

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.

THE UNIVERSITY OF TEXAS AT AUSTIN

| Year(s) Taught | Course |
|--|---|
| Undergraduate Courses | |
| Fall 2010, 2012, 2014, 2016, 2018, [2020] | Earth Materials |
| Fall 2019, [2020], [2021], 2022, 2023 | Geology of National Parks |
| Spring 2021, 2022, 2023 | |
| Spring 2014, 2015, 2016, 2018, [2020] | Physical Geology (taught to geology majors) |
| Summer 2017 | |
| Spring 2010 | Introduction to Geology (taught to non-majors) |
| Fall 2022, 2023 | Gems and Gem Minerals |
| Fall 2011, 2013 | Rocks & Water of The Middle East |
| Spring 2016, 2018 | International Learning Seminar |
| Graduate Courses | |
| Spring 2015, 2017 | Metamorphic Petrology |
| Spring [2021] | Analytical Methods: Electron Microbeam Technology |
| Fall 2018 | Thermodynamics of Petrological Systems |
| Spring 2022, 2023 | Microstructures and Rock Rheology |
| Spring 2011, 2012 | Geology of The Middle East |
| Fall 2015, 2016, 2017, 2018, 2019, [2020], | Technical Lecture Series |
| [2021] | |
| Spring 2017, 2018, 2019, [2020], [2021] | |
| [year] = made major adjustments to teaching du | ring COVID |

SOOCHOW UNIVERSITY INTERNATIONAL PROGRAMS, TAIWAN

Undergraduate Course

Summer 2022, The Dynamic Earth (4-week online introductory geology course) Winter 2023 (planned)

MIDDLE EAST TECHINCAL UNIVERSITY, ANKARA, TURKEY

Undergraduate Course

| Spring 2009 | Petrography |
|-------------|--|
| Fall 2008 | Introduction to Geological Engineering |
| Fall 2008 | Mineralogy |
| | |

OKLAHOMA STATE UNIVERSITY, STILLWATER. OKLAHOMA

Undergraduate Courses

| Various | Geology and Human Affairs |
|----------------|---|
| semesters from | Practical Mineralogy |
| 2001-2007 | Elementary Petrology |
| | Electron Microprobe Analysis (also graduate enrollment) |
| | Planetary Geology |

SENIOR RESEARCH COLLABORATIONS AND OVERSIGHT

| 2022-2023 | Daniel Campos, Electron Microbeam Lab Oversight |
|-----------|--|
| 2019-2022 | Dr. Phil Orlandini, Electron Microbeam Lab Manager |
| 2019 | Dr. Priyanka Periwal, Interim Electron Microbeam Lab Manager |
| 2017-2019 | Dr. James Maner, Electron Microbeam Lab Manager |
| 2017 | QiQi Wang, Interim Electron Microbeam Lab Manager |
| 2017 | Dr. Nick Dygert, Interim Electron Microbeam Lab Manager |

SERVICE TO PROFESSION

Journal Editorial Board Member

| 2022 | | |
|--|---|--|
| 2022- | Frontiers in Earth Science | |
| 2017- | | |
| <u>2015-</u> | Geodinamica Acta, now All Earth (Taylor and Francis) | |
| Service to Fund | ing Agencies | |
| 2000- | Review proposals for National Science Foundation-Tectonics, Petrology and Geochemistry, International, Continental Dynamics, Sedimentary Geology and Paleobiology, and Geography and Regional Science Divisions | |
| | Review proposals for the Austrian Science Fund | |
| 2017 | Review proposals for the Research Grants Council of Hong Kong NASA Review Panel on Planetary Science and Technology from Analog Research | |
| 2013-16 2011 2010 | NASA Review Panel on Solar System Workings Lead Science Reviewer, Standing Review Board for NASA Mars Organic Molecule Analyzer–Mass Spectrometer (MOMA-MS). NASA Review Panel on Mars Science Laboratory Participating Scientist Program NASA Independent Review Team for the Mars Organic Molecule Analyzer-Laser Desorption Mass Spectrometer | |
| | NASA Review Panel on ROSES 2010 Solicitation for the Astrobiology Science | |
| 2010 | NASA Review Panel on <i>Technology for Exploring Planets (ASTEP)</i> Invited participant to 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 | National Institutes of Health Reviewer, <i>Challenge Grants in Health and Science Research</i> | |
| 2007 | NASA Review Panel for the instruments UREY: Mars Organic and Oxidant Detector and Mars Organic Molecule Analyzer | |
| 2005 | NASA Review Panel on <i>Planetary. Instrument Definition and Development Program</i> NASA Lead Science Reviewer for the <i>Planetary. Instrument Definition and</i> <i>Development Program</i> | |
| | NASA Lead Science Reviewer for Mars Science Laboratory/Sample Analysis at Mars | |
| | NASA Review Panel on Interdisciplinary Exploration Science | |
| 2004 | NASA Review Panel on Mars Science Laboratory | |
| 2003 | NASA Review Panel on Mars Instrumentation and Development Panel | |
| 2002 | NSF Review Panel, EAR-Tectonics Division | |
| Service to the Geological Society of America (GSA) (since 2011 only) | | |
| 2009-20 | Member, Management Board of the GSA South-Central Section | |
| 2013-17 | Elected Councilor for the GSA | |
| | Liaison to the Mineralogy, Geochemistry, Petrology Volcanology Division Liaison to the Structural Geology and Tectonics Division Liaison to the Student Advisory Council | |
| 2014-17 | GSA Councilor/Conferee, Diversity in the Geosciences Committee | |
| 2014-16 | GSA Councilor, Doris M. Curtis Memorial Fund for Women in Science Committee | |

| 2013-16 | Councilor/Chair for the Arthur L. Day Medal Awards Committee |
|---|--|
| 2012-15 | GSA Member-At-Large, Committee for the Donath Medal (Young Scientist Award) |
| | Selection |
| 2015 | Member, Ad hoc GSA Committee focused on interest groups and divisions |
| 2012-13 | Vice Chair and Chair, Management Board of the GSA South-Central Section |
| 2011 | Invited Participant on the GSA Council Retreat: Strategic Planning Sessions |
| Reviews of manuscripts, publishers, and textbooks | |
| 2000- | Routinely review manuscripts for various peer-reviewed publications |
| 2019 | McGraw Hill, review two chapters in an introductory geoscience textbook |
| 2014, 2011 | Served on a Pearson Education focus group for MasteringGeology TM |
| 2009 | Reviewed art for each chapter of "Living with Earth," AGI, Prentice Hall Publishers. |
| | Developed test bank 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 |

SERVICE TO UNIVERSITY, SCHOOL, DEPARTMENT (UT AUSTIN ONLY)

| UT Austin | | |
|--|--|--|
| 2010- | Fulbright Student Review Committee | |
| 2022 | Committee of a Task Force to Review and Rewrite Course Evaluation Lab | |
| | Supplementary Form | |
| 2018 | Provost's Task Force on the Future of UT Austin Libraries | |
| 2013 | Review of the Faculty Activities Report (FAR) Electronic System | |
| 2013 | Selection Committee for UT Austin Faculty-Led Programs for Summer Abroad | |
| Jackson School | of Geosciences | |
| 2022- | Member, EPS-Bureau of Economic Geology Faculty Search in Earth Resources | |
| 2015- | Library Advisory Committee | |
| 2019-22 | Graduate Studies Committee, Committee on membership review | |
| 2019-21 | Graduate Studies Committee, Ad Hoc Committee on graduate admissions | |
| 2018-21 | Diversity Committee | |
| 2015-21 | Organized JSG Master's Saturday Events for graduating MS student presentations | |
| | each Fall and Spring | |
| 2014-17 | Member, Equipment Committee | |
| 2015 | Graduate Studies Committee, Ad Hoc Committee on Strategic Planning for MS and | |
| | MA Degrees | |
| 2012-13 | Undergraduate Advisor for Environmental Science Institute (ESI) Environmental | |
| | Science (EVS) program | |
| | Representative to the ESI-EVS Admissions Committee | |
| 2010-14 | Lead Instructor for GeoFORCE outreach program | |
| Department of Earth and Planetary Sciences | | |
| 2022-23 | Head Search Committee for the EPS Microbeam Facility Lab Manager | |
| 2019 | Head Search Committee for the EPS Microbeam Facility Lab Manager | |
| 2019- | Awards Committee | |
| 2015- | Faculty Oversight of the EPS Microbeam Facility | |
| 2019-22 | Graduate School Admissions Committee | |
| 2021-22 | Structural Geology Associate Professor Search Committee | |
| 2021-22 | Distinguished Postdoctoral Search Committee | |
| 2015-21 | Organize DeFord Lecture Series | |
| 2020 | Department Head Search Committee | |

| 2016-18 | Awards Committee | |
|---|--|--|
| 2017 | Search committee for the EPS Office Manager | |
| 2017 | Head Search Committee for the EPS Microbeam Facility Lab Manager | |
| 2012-13 | Undergraduate Advisor | |
| | Undergraduate Curriculum Review Committee | |
| | Undergraduate Academic Affairs Committee | |
| 2010 | Search Committee for a position in Tectonics and Geochronology | |
| | Search Committee for a position in Structural Geology and Tectonics | |
| | Oversaw the Petrography Contest | |
| Extracurricular University Service and Community Involvement/Outreach | | |
| 2020- | Mentor in the Geosciences Empowerment Network, Champions of Diversity | |
| | program | |
| 2009- | Campus Representative for the Fulbright Program | |
| 2010-17 | Elected Vice President, Austin Chapter of the Fulbright Alumni Association | |
| 2013 | Leader, On the Cutting Edge, Workshop for Early Career Geoscience Faculty | |
| 2013 | Presenter for GirlTalk, to promote STEM education/careers for girls | |
| 2010 | Expert Witness, deposed, 93rd Judicial District, Hidalgo Country, Texas | |

STUDENT RESEARCH ADVISED

Primary graduate supervisor, UT Austin

| Theses are avail | able at Texas Scholar Works, <u>https://repositories.lib.utexas.edu</u> |
|---|--|
| 2020- | Hector Garza, PhD (advanced to candidacy) |
| 2023 | Sarah O'Leary, MS |
| 2023 | Daniel Campos, MS, Exhumation of the High Tatra Mountains and Implications for the Western Carpathians (Slovakia) |
| 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 |
| | 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 Scott Fakley, PhD |
|----------------------|--|
| 2017 | Natchanan (Mint) Doungkaew. PhD |
| 2017 | |
| 2015 | 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 |
| 2022 | Llewnosuke Priimak |
| 2020 | Rebekah January (Austin Community College) |
| | David Keith |
| 2019 | Shania Goodwin |
| | Leah Lievrouw |
| | Jackson Phillips |
| 2018 | Gabriel Villaseñor |
| | 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 |
| 2014 | Daniel Lizzardo-McPherson |
| 2014 | Colin Sturrock (Jackson School Honor's student) |
| | Bridget Petiti |
| 2012 | Chelsea H. Jones Demole Speciale (Jeakson School Honor's student) |
| 2015 | Isis Gorbor |
| 2012 | Lindson Cormon (Jackson School Honor's student) |
| 2012 | Abby Kenigsberg (Jackson School Honor's student) |
| | Tyson McKinney |
| 2011 | Tim Shin (Jackson School Honor's student) |
| 2011 | Heather Flynn |
| Undergraduate | Student TA Supervision, start dates, UT Austin only |
| 2023 | Skye Hospod (Gems and Gem Minerals) |
| | Devon Jorgenson (Gems and Gem Minerals) |
| 2021- | Kaleigh Haynie (Geology of National Parks) |
| | |

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS:

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

WEBSITES/SOCIAL MEDIA

| WEDSTIES/SOCIAL WEDIA | |
|-----------------------|---|
| Twitter | @ElizabethCatlos |
| GoogleScholar | https://scholar.google.com/citations?user=jA-B4TsAAAAJ&hl=en&oi=ao |
| ResearchGate | https://www.researchgate.net/profile/Elizabeth-Catlos |
| ORCID | https://orcid.org/0000-0001-6043-3498 |
| LinkedIn | https://www.linkedin.com/in/ejcatlos/ |
| YouTube | https://www.youtube.com/channel/UC421U3vVtLotrkHkCCcx0Wg?view_as=subscriber |
| Shutterstock | https://www.shutterstock.com/g/lizicat |
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