

CURRICULUM VITAE

Lisa L. Ely

Department of Geological Sciences, Central Washington University, Ellensburg, WA 98926.
Tel. (509) 963-2177; FAX (509) 963-2821; e-mail: lisa.ely@cwu.edu

Education

- Ph.D. Degree** University of Arizona, 1992. Geosciences, emphasis in Fluvial Geomorphology.
Minor: Ecology and Evolutionary Biology.
- M.S. Degree** University of Arizona, 1985. Geosciences.
- B.S. Degree** Principia College, Elsah, Illinois, 1982. Geology and Biology.
-

Professional Experience

- 2003-present Professor, Department of Geological Sciences, Central Washington University
- 2011-12; 2003-07; 1998-99; 1996 Chair, Dept. of Geological Sciences, Central Washington Univ.
- 2017-2023 Graduate Program Director, Dept. of Geological Sciences, Central Washington Univ.
- 2009 Visiting Research Professor, Universidad de Valparaiso, Chile
- 2002 Visiting Research Scientist, Laboratory of Tree-Ring Research, University of Arizona
- 1998-2003 Associate Professor, Dept. of Geological Sciences, Central Washington University
- 1994-98 Assistant Professor, Department of Geology, Central Washington University
- 1992-94 National Science Foundation Postdoctoral Research Fellow in Earth Sciences,
Earth System Science Center, Pennsylvania State University.
- 1988-92 Geomorphology consultant for Archaeological Consulting Services, Tempe AZ.
- 1985-86 Hydrologist II, Cella Barr Associates Engineering, Tucson, AZ
-

External Research Grants and Projects

- 2024-25 Washington State Department of Ecology, "Hydrogeology and Potential for Groundwater Recharge and Storage on Alluvial Fans in the Yakima Basin," **PI: Lisa Ely**, co-PI Carey Gazis, **\$142,412**
- 2023-24 Resources Legacy Fund, "Response of the Naches River to the Removal and Redesign of Nelson Dam," **PI: Lisa Ely**, **\$45,284**
- 2022-23 Washington State Dept. of Transportation, "Effects of Hydrology and Geomorphology on Aquatic Habitat Functionality WSDOT/USFS I-90 Project," **PI: Lisa Ely**; co-PI Carey Gazis, **\$29,480**
- 2022-24 Washington State Department of Ecology, "Evapotranspiration and Floodplain Aquifer Storage Capacity in Yakima Tributaries," **PI: Lisa Ely**, co-PI Carey Gazis, **\$112,272**
- 2020-23 Washington State Department of Ecology, "Strategies for groundwater storage in diverse settings of the Yakima River Basin: Headwater tributaries and lower basin irrigation districts," PI Carey Gazis, **co-PI Lisa Ely**, **\$139,901**
- 2016-22 National Science Foundation, "Collaborative Research: Quantifying Megathrust Earthquake Ruptures with Coastal Stratigraphy and Tsunami Simulations, South-Central Chile," **Lead PI: L. Ely**, co-PIs B. MacInnes (CWU), B. Horton, T. Dura (Rutgers), **Total = \$487,271, CWU portion = \$267,194**
- 2012-15 National Science Foundation, "Collaborative Research: Subduction Zone Segmentation over Multiple Seismic Cycles, South-Central Chile," **Lead PI: L. Ely**, collaborating PI B. Horton (Rutgers), **Total = \$361,025, CWU portion = \$198,109**
- 2012 U.S. Bureau of Reclamation, "Data Collection for Survey of Mills Reservoir Delta

- 2010-11 Sediments, Elwha River Dam Removal/Restoration Project,” **PI: L. Ely, \$2400**
National Science Foundation, “RAPID: Tsunami deposits and coastal uplift near
Concepcion, Chile before and after the major earthquake of February 27, 2010,” **PI: L.
Ely, co-PI R. Wesson (USGS), \$26,200**
- 2009 Collaborative Research Major Research Instrumentation: Acquisition of Terrestrial Laser
Scanning System for Earth Science Research.; CWU PIs=C. Rubin, co-Pis **L. Ely** and B.
Pratt-Sitaula; collaborating PIs M. Miller and 2 co-Pis at UNAVCO; **Total = \$359,409,
CWU = \$213,656**
- 2008-09 National Geographic Society “Darwin and the Great 1835 Concepción Tsunami: Relying
on Geology and History to Avoid Future Catastrophes,” **PI: L. Ely, \$20,000**
- 2007-08 National Science Foundation “SGER: Salvaging Clues to Tsunami Recurrence in
Southern India,” **PI: L. Ely, \$19,835**
- 2007-12 National Science Foundation Science Talent Expansion Program (STEP), “Recruiting
and Retaining the Next Generation of STEM Professionals, College of the Sciences,
Central Washington University,” PI: W. Bohrson; **co-Pis Ely** and 4 others; **\$999,711**
- 2006-09 National Science Foundation “RUI and COLLABORATIVE RESEARCH: Impacts of
Extrafluvial Events on River Valley Evolution,” **Lead PI: L. Ely**; co-Pis K. House (U.
Nevada) and E. Safran (Lewis and Clark College), **Total = \$350,000, CWU = \$154, 665**
- 2005 National Geographic Research Grant “Geoarchaeology field studies in Michoacan,
Mexico,” T. Gabany-Guerrero, PI; **L. Ely: Research Scientist**
- 2002-05 U.S. Geological Survey Water Resources Grant “Hydraulics of cluster bedforms in
gravel-bed streams,” **PI: L. Ely**, collaborating PI: A. Papanicolaou (Washington State
U.) , **Total = \$110,000; CWU = \$53,000**
- 2003-05 National Science Foundation Science Talent Expansion Program “In Answer to a
National Challenge: A Pilot Program to Increase Participation in Science, Technology
and Mathematics (STEM) Fields, College of the Sciences, Central Washington
University.” PI: W. Bohrson, **co-Pis L. Ely** and 8 other CWU faculty, **\$249,987**
- 2001 Foundation for the Advancement of Mesoamerican Studies, Inc. “Geomorphology and
paleoenvironment of ancient cliff painting archaeological site, Michoacan, Mexico”
PI=T. Gabany-Guerrero, **L. Ely: Research Scientist**
- 2000-01 National Science Foundation International Supplement Grant, “Application of
Paleofloods to Flood Hazard Assessment in Hungary,” **PI: L. Ely \$7,550**
- 1998-2002 National Science Foundation Hydrologic Sciences, “Effects of regional climatology on
paleofloods in western U.S.” **CWU PI=L. Ely**, collaborating PI=P.K. House, **Total =
\$287,000; CWU portion=\$121,000**
- 1997-99 U.S. Geological Survey Water Resources Research Grant “Using paleofloods and climate
records for flood frequency assessment,” **Lead PI: L. Ely**, collaborating PI: P.K. House
(U Nevada), **Total = \$129,180; CWU portion = \$64,378**
- 1996 NSF Instructional Laboratory Instrumentation Grant “X-Ray Diffraction in Geology at
CWU,” PI: J. Hinthorne, **co-Pis: L. Ely, C. Rubin**, **\$63,000 with equivalent
institutional matching funds, Total = \$120,000**
- 1995-98 National Science Foundation Global Change Program “Holocene lacustrine records of
variations in the Indian Monsoon,” **Lead PI: L. Ely**, collaborating PI: V.R. Baker (U
Arizona), **Total = \$300,000; CWU portion=\$144,000**
- 1992-94 National Science Foundation Postdoctoral Research Fellowship in Earth Sciences,
Pennsylvania State University, “Modern hydroclimatology of extreme floods in monsoon
regions,” **\$70,000**
- 1992-94 National Geographic Society Research Grant, “Paleolakes in Baja California, Mexico,”
PI: Y. Enzel, **co-PI: L. Ely**
-

Professional Awards and Recognition

- 2022 Central Washington University Distinguished Faculty Member for Research
2015-16 Geological Society of America Thompson International Distinguished Lecturer
2009 Elected Fellow of the Geological Society of America
2001-present Association of Women Geoscientists Distinguished Lecturer
-

Internal Central Washington University Grants

- 2023 CWU Professional Leave Sabbatical Research Appointment, 2023-24
2015 CWU Professional Leave Sabbatical Research Appointment, 2015-16
2011 CWU College of the Sciences Faculty Summer Research Grant, "Geological Evidence of Predecessors to the 2010 Earthquake and Tsunami in South-Central Chile," \$3000.
2008 CWU Faculty Professional Leave Sabbatical Research Appointment, 2008-09
2008 CWU Equipment Grant, "Laser Particle-Size analyzer for Environmental and Chemical Applications", **Lead PI: L. Ely**, with 6 co-PIs. \$53,298.
2008 CWU Faculty Research Appointment (1 term salary & benefits): "Sediment Deposits from the 2004 Indian Ocean Tsunami and Pre-historic Tsunamis in Southeastern India."
2006 CWU Spheres of Distinction "CWU-STEP: A Science Talent Expansion Program for Freshman and Sophomore Students," **Lead PIs: M. Braunstein and L. Ely** with 7 co-PIs; \$53,000 in CWU annual base budget.
2004 CWU Essential Instructional/Research Equipment Grant Program--Mapping active geologic processes," **PIs: L. Ely** and C. Rubin, \$4,300.
2002 CWU Essential Instructional/Research Equipment Grant Program "Measuring and monitoring riverbank erosion: Developing and integrating new research techniques into the Geoscience curriculum," **PIs: L. Ely** and G. Aggett, \$9,955.
2001 CWU Professional Leave Sabbatical Research Appointment, 2001-02.
1998 CWU Faculty Research Appointment Grant, "Paleofloods on the Cauvery River, southern India," (1 term salary & benefits).
-

Teaching Awards and Activities

- 2022-present Director of AGU Bridge Program to increase diversity in CWU Geology Graduate Program; CWU is one of only 46 AGU Bridge University Programs nationwide
2018 Participant, NSF FIELD Workshop to increase diversity and accessibility in field courses
2012-present Supervisor CWU Thorp Mill Graduate Research Assistant. Oversee and mentor Graduate Assistant in community outreach, grant writing, research and museum displays.
2009 Faculty mentor and field research advisor, NSF G-K12 Internat. Suppl. Project, Nepal
2008 Participant, NSF Cutting Edge Workshop "Teaching Geomorphology"
2007-12 Faculty Mentor, National Science Foundation grant to CWU "Yakima Watershed Activities to Enhance Research in Schools (WATERS)". Mentored four graduate students in year-long science research and teaching collaborations with K-12 teachers.
2006-2008 Faculty mentor, CWU Science Honors Program
2004 Project Kaleidoscope Faculty for the 21st Century to promote science education
2003-present Faculty advisory committee and instructor, Science Talent Expansion Prog. (STEP)
2003 TIAA-CREF/CWU SOURCE Distinguished Faculty Award
1996 CWU Parents' Association Award for Excellence in Teaching

Student Research Advisor

- 1996-present Committee Chair and Advisor, 35 Graduate Student Thesis Projects

1996-present Faculty Supervisor, >100 Undergraduate Students in Independent Research Projects
1995-present Regular member of the Graduate Faculty, Central Washington University

Professional Service Activities

2023-25 Associate Editor, Journal of the Geological Society of India, Springer Press.
2020-24 Management Board Secretary, Quaternary Geology and Geomorphology Division, Geological Society of America (elected position)
2018 External Program Evaluator for NSF Research Experience for Undergraduates: Climate Change and Hazards in the Northwest, PIs Anne Egger and others, CWU.
2017-21 Member, U.S. National Committee for the International Union of Geological Sciences. National Academy of Sciences Committee to promote and advance geological sciences.
2018-19 External Program Evaluator for NSF REU Program: Hazards and Risks of Climate Change in the Pacific Northwest, PI Anne Egger.
2017-19 Editorial Board of Geological Society of America journal, *Geology*.
2016-19 External Program Evaluator for NSF IRES Project: Student Opportunities for Biological Research in México (SOBRE), PIs D. Beck and G. Strycker, CWU Biological Sciences.
2015-16 Geological Society of America Thompson Distinguished International Lecturer: Presentations in Spanish and English at 11 destinations in Central and South America
2015 Field Conference Co-leader, Friends of the Pleistocene Pacific Northwest Cells, Olympic Peninsula, WA [Elwha River], September 17-20, 2015.
2013-15 UNAVCO Education and Community Engagement Advisory Committee
2012 Field Conference Organizer, Friends of the Pleistocene Joint Rocky Mountain and Pacific Northwest Cells, Owyhee River, Oregon, August 23-26, 2012.
2011 Technical Program co-Chair, Geological Society of American Joint Rocky Mtn/Cordilleran Section Meeting, May 18-20, 2011.
2010-11 Proposal Review Panel: National Science Foundation Geomorphology and Land-Use Dynamics Program
2008 Invited Presenter/Workshop Leader: National Research Council/National Academy of Sciences Workshop, "Research and Applications Needs in Flood Hydrology Science", October, 2008.
2007-08 Chair, Quaternary Geology and Geomorphology Division, Geological Society of America (elected position)
Oct, 2007 External Program Review Team: Whitman College Department of Geology.
July, 2005 National Science Foundation Site Visit Review Panel for the National Center for Earth Surface Dynamics (NCED) NSF Science and Technology Center, St. Paul, Minnesota.
2003-present Review Panel: Washington State Water Resources Research Center Grants
2001-present Association of Women Geoscientists Distinguished Lecturer
1998-2008 GSA Annual Meeting Technical Program Organizing Committee for Quaternary and Geomorphology (2006-08); Pardee and Topical (2003); Paleoclimatology (1998-2002).
1996-2000 American Quaternary Association Board of Directors (elected position)
1995-98; 2005-07 Management Board, Quaternary Geology and Geomorphology Division, GSA
1996-present Various Geological Society of America Award Committees: Kirk Bryan Outstanding Paper Award, Geomorphology Distinguished Career Award, Howard Student Award; Mackin Student Award; Morisawa Student Award; Farouk El-Baz Student Award; Gladys Cole Award.
1996 American Quaternary Assoc. Panel: Denise Gaudreau Award
1994, 2014 NSF Proposal Review panel for Postdoctoral Research Fellowships in Earth Sciences.

Member: American Geophysical Union, American Quaternary Association, Geological Society of

America, Sigma Xi Scientific Research Society, National Association of Geoscience Teachers, Association of Women Geoscientists.

Professional Certifications

2002-present State of Washington Certified Professional Geologist

Community and Regional Service

2023- Teanaway River Restoration Scientific Advisory Board
2022 STEM Like Me Foundation Career Exploration activity leader for 7th grade students
2021-22 Yakima River Cottonwood Forest Advisory Committee, Mid-Columbia Fisheries
2020 Women in Science Lecture Series presenter, Ellensburg Public Library
2008-2019 Geology tours and rafting trips to benefit the Thorp Mill Historical Society
2009, 2015 Public town hall presentations in Talcahuano, Chile [in Spanish] on tsunami hazards.
2004-2016 Leader of local geology field trips: Kittitas County Environmental Education Network, Kittitas County Museum “Explore Kittitas County”
2012 Science Activity Leader, Harrah Elementary School Science Night (Yakama Nation)
2001-present Thorp Mill Town Historical Society, Board of Directors and Secretary
2001-2008 Washington State Boundary Review Board for Kittitas County
2004 Management Plan Advisory Committee, Yakima Subbasin Planning Board
2002-2004 Yakima County Critical Areas Scientific Advisory Board
1999-2019 Geology Workshop Leader, annual “Expanding Your Horizons” for 5th-8th grade girls

University and College Committees

2022 Graduate Studies and Research Task Force on the future of Graduate Studies
2019-2022 Chair, CWU Graduate Council Procedures Committee
2014-15; 2017-23 Graduate Program Coordinator, Geological Sciences Department
2014-15; 2017-23 CWU Graduate Council
2019-20 Faculty Coordinator, CWU Science Talent Expansion Program
2012-13; 1997-2003 Faculty Research and Development Committee
2012 College of the Sciences Task Force for future interdisciplinary programs
2006-08, 2011-13 Science Phase II Building Planning Committee
2006-08 Environmental Science/Studies Program Development Committee
2004-07 College of the Sciences Instrument Technician Advisory Committee
2003-present Science Talent Expansion Program (STEP) Committee
2004-05 Science Honors Program Student Selection Committee
2003-04 College of the Sciences Environmental Research and Education Program Committee
2002-05 University Campus Site and Development Master Plan Committee
2002-03 College of the Sciences Committee on Reappointment, Tenure and Promotion Policy
2001-pres. CWU Personnel Committees, Geology (2001-pres); Physics (2003-06); Chemistry (2008)
1999-02 University Graduate Council
1997-03 Faculty Senate Representative from Geological Sciences
1994-2004, 2008 McNair Scholars Program Advisory Board and Student Selection Committee
1995-2012 7 Administrative Search Committees; 8 Faculty Search Committees

Publications (see separate document)

40 peer-reviewed journal publications; over 150 abstracts at professional conferences