

# E. D. DASCHER

## Curriculum vita

edascher@ewu.edu

(267) 242-4627

### EDUCATION

Doctor of Philosophy Environmental Geography, August 2017

Texas State University, San Marcos, TX

Dissertation: Dams, Dam Removals, and Freshwater Mussel Conservation

Master of Science Interdisciplinary Sustainability Studies, May 2013

Texas State University, San Marcos, TX

Thesis: Residential Water Use and Conservation: a Texas drought perspective

Post-Baccalaureate Certificate Environmental Protection & Safety Mgmt., May 2011

Saint Joseph's University, Philadelphia, PA

Bachelor of Science Applied Forensic Science, May 2009

Mercyhurst College, Erie, PA

Minors: Biology, Archaeology, Russian Language

### PROFESSIONAL APPOINTMENTS

#### Department Chair

2023 - present

Eastern Washington University

Department of Geosciences

#### Associate Professor

2023 - present

Eastern Washington University

Department of Geosciences

#### Assistant Professor

2017 - 2023

Eastern Washington University

Department of Geosciences

#### Doctoral Research Assistant

2017

Texas State University, Department of Geography

Supervisor: Kimberly Meitzen

#### Instructor of Record

2015 - 2016

Texas State University, Department of Geography

Courses Taught: Introduction to Physical Geography

<b>Doctoral Teaching Assistant</b> Texas State University, Department of Geography Supervisor: James F. Peterson	2014 – 2015
<b>Graduate Research Assistant</b> Texas State University, Department of Geography Supervisor: Kimberly Meitzen	2013 - 2014
<b>Graduate Teaching Assistant</b> Texas State University, Department of Biology Supervisor: Eric Nierth Simpson	2012 - 2013
<b>Graduate Assistant</b> Texas State University, Graduate College Supervisor: Dr. Williamson (Dean)	2011-2012
<b>PROFESSIONAL EXPERIENCE</b>	
<b>NRCS National Wetlands Inventory Training</b> National Fish and Wildlife Service	November 2020
<b>Fish Passage: Inventory and Assessment Training</b> Washington Department of Fish and Wildlife	Fall 2020
<b>Workshop Organizer and Host</b> Barrier Removal Assessment Workshop (BREW)	May 2017
<b>Graduate Fellowship</b> RCN CE3SAR – Global Marine Sustainability Workshop	September 2015
<b>Volunteer Organizer</b> Applied - SWAAG 2015 Joint Conference Advisory Board	2014 - 2015
<b>Dam Safety Workshop for Owners and Operators</b> Texas Commission on Environmental Quality, Huston, TX	Summer 2015
<b>Vice President</b> Association for Women in Science, Central Texas Chapter	2012 – 2013
<b>Grassroots Organizer Intern</b> Greenpeace, Philadelphia, PA	2010 – 2011

## Student Fellowship

Summer 2009

Mercyhurst Archaeological Institute Summer Research Fellowship

## REFEREED ARTICLES

- Dascher, E. D., E. Zavar, A. Greer, S. B. Brokopp. 2023. Biophilia as Climate Justice for Post-Buyout Land Management. *Applied Geography* 158.
- Dascher, E. D and K. M. Meitzen. 2020. Dams are Coming Down, but Not Always by Choice: The Geography of Texas Dams, Dam Failures, and Dam Removals. *Texas Water Journal*, 11(1):89-129.
- Dascher, E. D. 2019. Modeling river connectivity using the Barrier Assessment Tool and available data on registered dams in the Guadalupe - San Antonio River System, Texas. *The Professional Geographer*, 71(4), 616-630.
- Dascher, E.D., L. E. Burlakova, A. Y. Karatayev, D. F. Ford, A. N. Schwalb. 2018. Distribution of unionid freshwater mussels and host fishes in Texas. A study of broad-scale spatial patterns across basins and a strong climate gradient. *Hydrobiologia*. 810(1), 315-331.
- Lavy, B. L., **E. D. Dascher**, R. Hagelman. 2016. Media portrayal of Gentrification and redevelopment on Rainey Street in Austin, Texas (USA), 2000-2014. *City, Culture and Society*, 7(4), 197-207.
- Dascher, E. D. and H. Flores-Ortiz. 2015. Recharge Estimations for Laguna Pond at Freeman Ranch, San Marcos, TX. *Papers in Applied Geography*, 1(3), 212-216.
- Dascher, E. D., J. Kang, & G. Hustvedt. 2014. Water Sustainability: Environmental Attitude, Drought Attitude, and Motivation. *International Journal of Consumer Studies*, 38(5), 467-474.

## MANUSCRIPTS IN PROGRESS

- Yri, J\*. **E. D. Dascher**, C. Higbee\*\*, C. Brown\*\*, J. DeWitt\*\*, L. Johnston\*\*, W. Stevens\*\*, K. Magori, M. Rules, J. Joyner-Matos. **In Preparation.** NEWS FROM THE SCABLANDS: Investigating the impacts of non-native brook stickleback (*Culaea inconstans*) on managed wetlands during the 2015 WA drought. *Wetland Ecology and Management*. \*Graduate Student  
\*\*Undergraduate Student

## FUNDED RESEARCH GRANTS

- 2019 Seattle City Lights Wildlife Research Program Skagit River Hydroelectric Project Grant. PIs: Rebecca Brown and Joseph Weirich. Co-PIs: **E. D. Dascher**, Paul Spruell, Lily Cryster, and Rob Rees. *Beaver Moderated Fire Resiliency in the North Cascades*. \$14,537.37

- 2018 Faculty Grants for Research and Creative Works, EWU: \$9,010
- 2017 Doctoral Research Support Fellowship, TxSU: \$4,151.42
- 2016 Rising Scholarly Travel Activity and Research (S.T.A.R.) Grant TxSU: \$500
- 2015 Rising Scholarly Travel Activity and Research (S.T.A.R.) Grant TxSU: \$500
- 2014 Rising Scholarly Travel Activity and Research (S.T.A.R.) Grant TxSU: \$500

**NON-FUNDED GRANTS**

- 2019 Start Something Big Grant, EWU. PI: Dascher, E.D. Co-PIs: L. Stachowiak, S. Tsikalas, E. Budsberg. *Developing New Curriculum in Support of Undergraduate Research in Geography and Sustainability.*

**GRADUATE COMMITTEES**

CHAIR

- In progress Lewan, Mary. Masters of Geographic Information and Public Anthropology, conc. GIS, Eastern Washington University. *INVESTIGATIONS INTO THE IMPACTS OF URBANIZATION ON STREAM CONNECTIVITY ALONG THE I-90 CORRIDOR IN THE SPOKANE RIVER BASIN, WA*
- 2019 Berg, Christy. Masters of Geographic Information and Public Anthropology, conc. Cultural Resource Management, Eastern Washington University. *ARCHAEOLOGY SITES AT RISK DUE TO SEA LEVEL RISE IN THE PUGET SOUND WATERSHED*

COMMITTEE MEMBER

- In progress Garvey, Megan. Masters of Biology, Eastern Washington University. *FAIRY SHRIMP (ANOSTRACA) HATCHING IN THE VERNAL POOLS OF EASTERN WASHINGTON*
- 2023 Killoy, Katelin. Masters of Biology, Eastern Washington University. *BASELINE DATA FOR ASSESSING BEAVER DAM ANALOGS AS A RESTORATION TOOL IN FIRE AFFECTED TRIBUTARIES OF THE METHOW AND OKANOGAN WATERSHEDS*
- 2021 Weirich, Joseph. Masters of Biology, Eastern Washington University. *BEAVER MODERATED FIRE RESILIENCE IN THE NORTH CASCADES*
- 2020 Clinkenbeard, Jade. Masters of Biology, Eastern Washington University. *COMPARISON OF WETLAND RESTORATION TECHNIQUES IN AND AROUND TURNBULL NATIONAL WILDLIFE REFUGE, CHENEY, WA*
- 2020 Hansen, Elijah. Masters of Geographic Information and Public Anthropology, conc. GIS, Eastern Washington University.

*'AMAGEDDON': THE UNHOLY TRINITY OF CLASS MONOPOLY  
RENT IN THE EMERALD CITY*

- 2018 Thomas, Cody. Masters of Biology, Eastern Washington University.  
*RIPARIAN VEGETATION AND THE SOIL SEED BANK 5 YEARS  
AFTER DAM REMOVAL ON THE ELWHA RIVER, WASHINGTON*

**SUPERVISED STUDENT CONFERENCE PRESENTATIONS**

- 2020 Lewan, Mary. *Using the Barrier Assessment Tool (BAT) to Examine River  
Connectivity in Four Sub-Watersheds of the Spokane River Basin*,  
Women in Science Technology, Engineering, and Math (WiSTEM),  
Cheney, WA
- 2019 (Poster) Lewan, Mary. *Advancing Technologies and Retreating Glaciers: A  
Review of Research Methods for Studying Glaciers*. EWU Student  
Research and Creative Works Symposium, Cheney, WA.
- 2019 (Poster) Christy Berg. *Archaeology and Climate Change: Sites at Risk in  
Washington's Puget Sound*. EWU Student Research and Creative Works  
Symposium, Cheney, WA
- 2018 Zobrist, Will. *The Geomorphology of Mars* EWU Student Research and  
Creative Works Symposium, Cheney, WA
- 2018 Berg, Christy. *The Role of Geomorphology in Archaeology*. EWU Student  
Research and Creative Works Symposium

**SUPERVISED STUDENT RESEARCH**

- 2022 Osgood, Jalyn. Internship with the Upper Columbia River  
Group, Sierra Club. *Osgood Interviews Summer 2022*.
- 2020 Lundberg, Astrid. Senior Project. *Assessing Connectivity  
Effects on Freshwater Mussels in River Basins of Ontario  
Canada*.
- Summer 2019 Stark, Sam. *Grant Supported GIS internship. Instream  
Barrier Identification in the Spokane River Basin*.

**CONFERENCE PRESENTATIONS**

- 2023 Dascher, E.D. *Role of Stakeholder Engagement in Shared Water  
Governance: Drafting a TMDL for PCBs in the Spokane River*. 2023 APA  
WA Annual Conference, Spokane, WA.
- 2023 (Poster) Dascher, E. D. *To the Grave: A geographic analysis of  
conservation burial grounds in the United States*. Association of American  
Geographers, Denver, CO.
- 2023 Dascher, E. D., B. Lavy. *Take me down to the River: An investigation of*

- Wild and Scenic River gateway communities. River Management Society Symposium, San Antonio, TX.
- 2022 Bennett, M.\*\* , **E.D. Dascher**. An Exploration of Land Use and River Connectivity in the Dragoon Creek Watershed, Spokane County, WA. Society for Range Management Chapter Meeting, Cheney, WA.
- 2022 Dascher, E. D. *Digitally Unearthed: Urban Stream Deserts in the Spokane Watershed*. Joint Aquatic Science Meeting, Grand Rapids, MI. (virtual)
- 2021 Dascher, E. D. *Investigating Potential Urban Stream Deserts in the Spokane Watershed*. Society for Freshwater Science, Pacific Northwest Annual Chapter Meeting, Virtual.
- 2021 Lewan, M.\* , **E. D. Dascher**. *How the River Runs: Measuring stream fragmentation in urban and non-urban watersheds* Association of American Geographers, Virtual.
- 2020 Dascher, E. D. *An Evaluation of Stream Connectivity in the Upper Yakima Watershed*. Association of American Geographers, Denver, CO. –accepted (Cancelled due to COVID-19)
- 2020 (Poster) Lewan, M.\* , S. Stark\*\* , **E.D. Dascher**. *Functional Stream Connectivity and Land Use in the Spokane River Basin, WA*. Association of American Geographers, Denver, CO –accepted (Cancelled due to COVID-19) \*Graduate Student \*\*Undergraduate Student
- 2019 Dascher, E. D. *Prioritizing Dam Removal for Freshwater Mussel Conservation in the Guadalupe – San Antonio River System*. Freshwater Mollusk Conservation Society 2019 Symposium, San Antonio, TX
- 2018 (Poster) Dascher, E. D. *An Assessment of Functional River Connectivity in the Spokane River Basin*. Restoring Resilient Communities in Changing Landscapes, Joint Pacific Northwest Regional Conference (Society for Ecological Restoration and Society of Wetland Society), Spokane, WA
- 2018 Dascher, E. D. *Modeling dam removal prioritization for the purpose of freshwater mussel conservation in a central Texas river basin*. Association of American Geographers, New Orleans, LA
- 2016 (Poster)Dascher, E. D. *An Assessment of Dam Removals in Texas*. Annual Meeting of the Southwestern Division of the Association of American Geographers, Denton, TX
- 2016 (Poster) Dascher, E. D. *A Temporal Assessment of Functional River Network Connectivity in the San Antonio River Basin*. Annual Meeting Association of American Geographers, San Francisco, CA
- 2015 (Poster) Dascher, E. D. *Assessment of Functional River Network Connectivity in Regionally Diverse Texas Watersheds*. Annual Meeting Association of American Geographers, Chicago, IL

- 2015 Dascher, E. D. & K. M. Meitzen. 2015. *Assessment of Current Spatial and Temporal Trends in Available Data on Texas Dams: A Tale of Ten Basins*. SWAAG – Applied Joint Meeting, San Antonio, TX
- 2015 Dascher, E.D., J. Olson, L.E. Burlakova, A.Y. Karatayev, T. Bonner, A.N. Schwalb. 2015. *How does the distribution of unionid freshwater mussels in Texas relate to the distribution of fishes?* 2nd International Meeting on Biology and Conservation of Freshwater Bivalves, Buffalo, NY
- 2015 Lavy, B., **E. D. Dascher**, and R. Hagelman. *The Shifting Landscape of Rainey Street, Austin, TX: An Analysis of the News Media's Portrayal of an Urban Renewal Effort*. Association of American Geographers, Chicago, IL
- 2015 Lavy, B., **E. D. Dascher**, and R. Hagelman. *Putting Gentrification in Context: News Media Coverage and Neighborhood Transformation*. Alpha Chi National Convention, Chicago, IL
- 2014 Dascher, E. D. & H. Flores-Ortiz. *Recharge Estimations for Laguna Pond at Freeman Ranch, San Marcos, TX*. Applied Geography Conference, Atlanta, GA
- 2014 Dascher, E. D., R. A. Earl, J. Petersen. *Some Hydrologic Implications of Climate in Texas*. Annual meeting of the Association of American Geographers, Tampa, FL
- 2012 Dascher, E. D. & G. Hustvedt. *Wasting Away: Consumer ecological knowledge and drought response*. 4th International Research Conference, San Marcos, TX
- 2012 Dascher, E. D. & G. Hustvedt. *Wasting Away: Consumer ecological knowledge and drought response*. 4th International EcoSummit, Columbus, OH
- 2012 Dascher, E. D. & G. Hustvedt. *Will you miss it when it's gone? Texas household water use and willingness to pay for residential water quality*. Women in Science and Engineering Conference, San Marcos, TX

### **INVITED TALKS**

- 2022 Medical Lake Planning Commission Meeting, Medical Lake, WA: *Wetlands: Considerations for Management*
- 2018 University of Idaho, Geography Department Colloquium, Moscow, ID: *Prioritizing Dam Removals for Freshwater Mussel Conservation: A Texas Tale*.
- 2018 Biology Department Seminar, EWU, Cheney, WA: *Applications of Mapping River Connectivity and Fragmentation*.

## **INVITED PANEL SESSIONS**

2023 Annual Meeting of the Association of American Geographers. *Teaching Introduction to Physical Geography: Best Practices and Reflections*

## **ORGANIZED CONFERENCE SESSIONS**

2020 Restoration and Conservation in the Pacific Northwest I. Association of American Geographers, Denver, CO –accepted (Cancelled due to COVID)

2020 Restoration and Conservation in the Pacific Northwest II. Association of American Geographers, Denver, CO –accepted (Cancelled due to COVID)

## **TEACHING EXPERIENCE**

### EASTERN WASHINGTON UNIVERSITY

#### **Undergraduate Courses Taught**

Introduction to Environmental Science (Fall 2022)

Water Resources (Fall 2022)

Environmental Planning (Winter 2022)

Resource Management (Winter 2022)

Hell or Highwater: the geography of large-scale river regulation (*New, Fall 2020*)

Geographer's Capstone (Spring 2020, 2021)

Energy/Water Nexus (*New, Winter 2020*)

Rivers and Floods (*New, Spring 2019*)

Resources and Conservation (Fall 2018, 2019, Winter 2021, 2022)

Introduction to Field Research (Fall, 2018, 2019, 2020, 2021)

Fundamentals of Soil Science (Spring 2018, 2020, 2022)

Wetland Science I (Spring 2018, 2021, 2022)

Surface Hydrology (Winter 2018, 2019)

Earth's Weather and Climate (2017, 2018, 2019, 2020, 2021, 2022)

Geomorphology (Spring 2017, Fall 2018, 2019)

Discovering Geology (Fall 2017, Fall 2021)

Introductory Statistics (Fall 2017)

#### **Graduate Courses Taught**

Environmental Planning (Winter 2022)

Writing Seminar (Fall 2019)

#### **Graduate Independent Studies**

Applied GIS (Winter 2020)

Data Analysis (Winter 2020)

Advanced Environmental GIS (Spring 2020, 2023)

Advanced Topics in GIS (Winter 2019)

Applications in Statistics (Fall 2019)

Applied Topics in GIS (Spring 2019)



## **HONORS, SCHOLARSHIPS, AND AWARDS**

- 2019 College of Social Sciences Jeffers Chertok Influential Faculty Mentor  
2019 Scholarly & Creative Excellence in the College of Social Science,  
Nominee  
2016 Touchstone-Kimmel Scholarship Geographic Interpretation (\$1000)  
2016 Graduate Student Award for Outstanding Service  
2015 Wiley Outstanding Graduate Student in Geography  
2015 Joe and Jerry Moore Scholarship in Water Resources (\$1000)  
2014-2016 Detlefsen Doctoral Excellence Scholarship (\$1000)  
2014-2016 Graduate College Liberal Arts Scholarship (\$1000/yr)  
2013 School of Family and Consumer Sciences Graduate Research Award  
2006-2010 Mercyhurst College Egan Scholarship (\$10,000/yr)  
2009 Mercyhurst Archaeological Institute Summer Research Fellowship  
2006-2010 Mercyhurst College Dean's List Scholar

## **SERVICE**

### UNIVERSITY

- 2022-2023 University Sustainability Committee, Committee Member  
2022-2023 Faculty Organization, Secretary (elected)  
2022 Research and Creative Works Symposium 2022, Committee  
Member  
2021 College of Science, Engineering, Technology and Math College  
Assessment Committee (CSTEM CAC)  
2019-2021 College of Social Sciences College Assessment Committee (CSS  
CAC), Committee Member/Department Representative  
2020-2021 CSTEM Symposium Committee (Member and Moderator)  
2020 SCI-Building Courtyard Renovation Committee  
2019-2020 Symposium 2020 Committee, Committee Member  
May 2019 22nd Annual EWU Student Research and Creative Works  
Symposium, Session Moderator  
May 2018 21st Annual EWU Student Research and Creative Works  
Symposium, Session Moderator

### DEPARTMENT

- 2022 Valley Fest 2022, Faculty volunteer  
2018 – Department of Geosciences Club, EWU. Faculty Advisor  
2020 – River Studies and Leadership Certificate Coordinator, EWU  
2017 – Wetlands Science and Management Certificate Coordinator, EWU  
2022 Hiring Committee for Administrative Assistant 3 Position, Chair  
2019-2022 University Academic Senate, EWU. Elected Department Senator

- 2018-2020 Fundamentals of the Physical Environment Lab Coordinator, EWU
- 2018-2020 Co-coordinator Sustainability Program Steering Committee, EWU
- 2020 GIS Certificate Revision Committee, EWU
- 2019-2020 Geosciences Curriculum Committee, EWU
- 2018 Hiring Committee for full-time Lecturer of Anthropology, EWU
- 2017-2020 Geography Curriculum Committee, EWU
- 2017-2020 Geography Laboratory Improvements Committee, EWU
- 2015-2016 Colloquium Committee, Geography Department, TxSU
- 2014-2015 Geography Graduate Forum, TxSU

### COMMUNITY

- 2022- Executive Committee Member, Upper Columbia River Group, Sierra Club (Elected)
- 2021 – Committee Member, Spokane River Team, Upper Columbia River Group, Sierra Club
- 2020-2022 Volunteer, Peace, and Justice Action League of Spokane (PJALS)
- 2018-2022 Volunteer, Spokane Lands Council
- 2018-2022 Volunteer, Spokane Riverkeeper
- 2019-2020 Outdoor Education Leader, West Valley Outdoor Learning Center

### PROFESSIONAL

- 2022 – Advisory Council Member, Center for Land Use and Sustainability (CLUS), Shippensburg University, Shippensburg, PA  
[Advisory Council - Center for Land Use and Sustainability](#)
- 2022 – 2023 Co-Chair Sponsorship & Exhibits Committee, Society of Wetland Scientists Annual Meeting, Spokane, WA.

### **MEDIA ACKNOWLEDGEMENTS**

- 2022 Cheney Free Press, Lucas Walsh. “EWU Doctor Presents on wetland Preservation”<https://www.cheneyfreepress.com/story/2022/11/03/news/ewu-doctor-presents-on-wetlands-preservation/30175.html>
- 2019 Fall 2019 Texas State University, College of Liberal Arts e-magazine – Human Inquiry. “Geography Graduate Makes Good with Study of Water Attitudes in Texas” <https://liberalarts.wp.txstate.edu/>
- 2012 Fall 2012 College of Applied Arts (CAA) Newsletter - News Release. “Sustainability Studies grad student presents analysis of 2011 drought”  
[http://www.txstate.edu/news/news\\_releases/news\\_archive/2012/October-2012/Sustainability100112.html](http://www.txstate.edu/news/news_releases/news_archive/2012/October-2012/Sustainability100112.html)

## **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS**

River Management Society

Association of American Geographers (AAG)

    AAG Water Resources Specialty Group

    AAG Biogeography Specialty Group

Association of Pacific Coast Geographers (APCG)

Fresh Water Mussel Conservation Society (FMCS)

River Management Society (RMS)

Society of Wetland Scientists (SWS)

Society of Freshwater Scientists (SFS)

Pacific Northwest Native Freshwater Mussel Workgroup