

## ROSS, MICHAEL K

### CURRICULUM VITAE

#### EDUCATION

- Texas Tech University Lubbock, Texas  
**Master of Landscape Architecture** 2017  
Thesis Project: "Landscape Reimagined: The Chicago River and the Clybourn Industrial Corridor, Ecology as Design Intervention"
- The University of Texas at El Paso El Paso, Texas  
**Bachelor of Science in Biology** 2006  
Area of concentration: Evolutionary Ecology of Chihuahuan Desert Herpetofauna  
Minor: Anthropology

#### LICENSURE AND CREDENTIALS

- SITES AP 2018 - Present

#### AWARDS

- American Institute of Architecture Students - Educator Honor Award Honorable Mention 2022  
UTIA, William T. Miles M.D. Memorial Award for Community Service  
University Olmsted Scholar 2017  
Texas American Society of Landscape Architects (ASLA) Merit Award  
Graduate Research Poster 1<sup>st</sup> Place *Humans and Their Environment* division 2016

#### TEACHING EXPERIENCE

- University of Tennessee, Department of Plant Sciences + School of Landscape Architecture 2019 - Present  
**Assistant Professor**  
Courses taught:  
GEOG 443 / GEOL 443/590 Sustainable Cities / Urban Ecology  
LAR 535 Operative Landscape Tactics  
PLSC 380 Advanced Sustainable Landscape Design  
PLSC 280 Fundamentals of Sustainable Landscape Design  
PLSC 311 Management of Landscape Systems  
PLSC 350 Sustainable Landscape Construction  
PLSC 455/555 Advanced Sustainable Landscape Construction  
PLSC 485 Computer Aided Landscape Design  
PLSC 493/593 Problems in Horticulture & Plant Sciences | Green Infrastructure Theory & Application  
PLSC 501 Technical Communication Education in SLD  
PLSC 504 Graduate Seminar  
PLSC 569 Graduate Student Teaching Practicum  
UNHO 498 Senior Capstone College Honors Studies
- Texas Tech University, Department of Landscape Architecture 2017 - 2019  
**Instructor**  
Courses taught: Introduction to Landscape Architecture, Design Studio 3: Systems, Design Studio 4: Urban Design, Environmental Planning for Sustainable Development, Advanced Environmental Planning for Sustainable Development (graduate level)  
Development and delivery of online distance curriculum for LARC 1302 – Introduction to Landscape Architecture
- Premier High School of North Austin 2012 - 2013  
**Interim Campus Director / Principal**  
Led all facets of campus operations and academics; interfaced with central administration, faculty, students, staff, and parents; served as liaison between campus and community; led ecology field trips and expeditions
- Vice-Principal / Environmental Systems Lead Teacher** 2008 - 2012  
Assisted principal in all matters of campus academics, operations, and discipline; wrote and delivered environmental systems curriculum; mentored students; served as early college start advisor and campus legal representative in truancy court proceedings; led ecology field trips and expeditions

Premier High School of Austin

**Lead Teacher**

**2005 - 2008**

Established and maintained classroom culture, administered exams, maintained grades and student documents, handled all facets of classroom discipline, provided mentoring and guidance for students ranging from grades 9-12, supported fellow teachers and administrators, advocated for students and families, established and led ecology field trips and expeditions

RELATED EXPERIENCE

Independent Contractor

**Landscape Designer / Consultant**

**2007 - present**

Landscape design, native plant propagation, horticultural services, invasive species removal, establishment of native ecological plant assemblages, planting design, gardening for wildlife and pollinator health, ecosystem services and biodiversity

Texas Tech University

**Research Assistant**

**2015 - 2017**

Assisted lead researcher on National Park Service American Battlefield Protection Program grant seeking expansion of the National Historic Registry Boundary for Palmito Battlefield including community meetings, field trips, multimedia, brochure writing

The University of Texas at El Paso

**Field Technician / Restoration Ecologist**

**1998 – 2003**

Assisted in ecological restoration conducted at the Rio Bosque Wetlands Park, removed non-native and invasive species, established native plant communities, conducted faunal surveys of Herpetofauna and arthropods, built trail systems, maintained water delivery systems, assisted in the installation of ground monitoring wells, collected data, conducted public tours and outreach, interfaced with partners, volunteers, and law enforcement

RESEARCH INTEREST

Research interests center on the intersection of ecology and urbanism; design interventions that support and enhance biodiversity and ecosystem services; as well as the impacts and mitigation of post-industrial, post-production, and on-demand landscapes on cultural systems, biodiversity, ecosystem services, and ecosystem functions

**2018 - present**

MENTORING AND ADVISING

Master Student Co-advisor

**2022 - present**

Braden Coats, *Effects of Substrate Depth on Colonization and Biodiversity of Green Roof Ecosystems (proposal)*

Academic Advisor

Sustainable Landscape Design undergraduate students and Plant Sciences minors

**2019 - present**

Mentor/Co-advisor

Kaitlyn Knight, University Presidential Scholar majoring in Sustainability

**2021 - 2022**

Master Student Committee Member

**2019 - 2020**

Dustin Toothman, *Field Guide to Regulatory Regeneration Appalachia and the Anthropocene*

Master Student External Committee Member

**2018 - 2019**

Michael Hall, *Evaluating the Effects of Ecological Interventions in Parks in Semi-Arid Regions*  
Texas Tech University

GRANTS, AWARDS, AND EXTERNAL FUNDING

University of Tennessee (UTK) Office of Sustainability Design and Research Fund – awarded \$50,000

**2022 - 2023**

University of Tennessee Office of Sustainability Design and Research Fund – awarded \$81,100

**2022 - 2023**

University of Tennessee One Health Initiative Living Shoreline Seed Grant – awarded \$40,000	<b>2022 - 2023</b>
University of Tennessee Office of Sustainability Design and Research Fund – awarded \$30,000	<b>2021 - 2022</b>
UTK Office of Sustainability Green Fees – awarded \$8,750 UTK Office of Sustainability Design and Research Fund – awarded \$21,250	<b>2019 - 2020</b>
High Plains Water District Bushland Independent School District: Middle School Water Wise Learning Garden – awarded \$14,348	<b>2018 - 2019</b>

## SERVICE

Department of Plant Sciences Library Representative	<b>2023 - present</b>
WATeR Science Advisory Board	
Tennessee Department of Transportation (TDoT) Pollinator Habitat Program Expert	<b>2022 - present</b>
College of Architecture and Design (CoAD) Dean's Advisory Committee	<b>2021 - Present</b>
CoAD UTK Watershed Executive Committee Chair	
Campus Stormwater Advisory Committee	
Herbert College of Agriculture Scholarship Committee	
Herbert College of Agriculture Honors Committee	
Third Creek Initiative Working Group Chair	
School of Landscape Architecture, CoAD Admissions Committee	
School of Landscape Architecture, CoAD Awards Committee	
School of Landscape Architecture, Olmsted Scholar Awards Coordinator	
UT Gardens Garden Education and Discovery Center Programming Task Force	<b>2020 - Present</b>
McClung Museum Southern Foodways Garden Collaboration	
PLSC Seminar Committee (Co-Chair 2020, Chair 2021)	<b>2019 - Present</b>
EESRB Green Roof working group	
Consultation and supplemental management UTK/UTIA rain gardens and green infrastructure	
Bee Campus USA advisory committee (UTK)	
PLSC Graduate Poster Competition Judge	<b>2021</b>
ASLA Tennessee Chapter Student Scholarship Awards Panel	
PLSC Sustainable Landscape Design Alumni meeting committee	<b>2020</b>
Reviewer for Council of Educators in Landscape Architecture (CELA), Design Education and Pedagogy submission	<b>2018 - 2019</b>
Bee Campus USA advisory committee (TTU)	
TTU College of Agricultural Sciences & Natural Resources (CASNR) Recruiting, Retention & Career Development committee	
University Undergraduate Research and Scholarship Symposium advisory committee (TTU)	
Women and Gender Studies Affiliated Faculty (TTU)	
TTU Department of Landscape Architecture (DoLA) departmental recruiting: Undergraduate and graduate programs	
University Bonsai Society Faculty Advisor (TTU)	<b>2017 - 2019</b>
Department of Landscape Architecture Graduate and Undergraduate LAAB Accreditation Self-Evaluation Report preparation team member (TTU)	<b>2017</b>

## GUEST LECTURES, INVITED TALKS, DEMONSTRATIONS, AND CRITIQUES

Smoky Mountains Chapter Wild Ones (virtual). <i>Strategies for Sustainability and Resilience in the Designed Landscape</i>	<b>2023</b>
TTU CASNR DoLA LARC 1302 Introduction to Landscape Architecture, <i>Materials Matter</i>	<b>2022</b>
LAR 554/556 – Tennessee Territories @ The Cumberland Plateau design studio, Critic	
UT GEOL 454 Environmental Restoration, <i>Floating Treatment Wetlands</i>	
Tellico Village Garden Club, <i>Landscape + Ecology + Design: The Role of Resilience in Design and Planning</i>	
Cosby High School (virtual). <i>Ecological Landscape Design</i>	
Knox County Master Gardeners. <i>Strategies for Sustainability and Resilience in the Designed Landscape</i> .	
UT Gardens' EcoLOGICAL Gardening Symposium. <i>Of Biodiversity and Butterflies</i>	
Tennessee Extension Master Gardener Collaborative Intern Training (virtual). <i>Designing the Residential Landscape</i>	
Knox County Master Gardeners Intern Training. <i>Designing the Residential Landscape</i>	

AIA Students Grassroots Leadership Conference, <i>Landscape + Ecology + Design: The Role of Resilience in Design and Planning</i>	<b>2021</b>
AIA Students National Sustainability Working Group, <i>Sustainable and Resilient Landscapes</i>	
UT Extension Horticultural Hot Topics, <i>Design and Engineering for Rain</i>	
TTU CASNR DoLA LARC 1302 Introduction to Landscape Architecture, <i>Materials Matter</i>	
TTU CASNR DoLA LARC 1302 Introduction to Landscape Architecture, <i>Talking the Talk: Aesthetics of Composition – Principles and Elements of Design</i>	
UT College Scholars: Honors 318 Seminar, <i>Sustainable Landscape Design</i>	
UT PLSC 333 Plant Physiology and Nutrition, <i>Considerations and Applications of Plant Physiology for Landscape Architecture and Design</i>	
Students Promoting Environmental Action in Knoxville (S.P.E.A.K.), <i>Third Creek Enhancement Initiative</i>	
University of Tennessee Arboretum Virtual Butterfly Festival, <i>Of Biodiversity and Butterflies: Planting Design and Conservation for Pollinators.</i>	
University of Tennessee Science Forum, <i>Floating Treatment Wetlands: Nature-Driven Options for Cleaner Water</i>	
Eastern Tennessee Region Garden Guest Series, <i>Power of Native Plants in Sustainable Landscape Design</i>	
LAR 552 – In Progress Calibrating Site Phasing for Indeterminacy design studio, Critic	
LAR 554/556 – Common Ground Normalizing the Working Landscape design studio, Critic	
LAR 553 – River Studio, Design Studio 3, Critic	<b>2019 - 2021</b>
UTIA Extension Green Industry Field Day, <i>Ecological Landscape Design</i>	<b>2020</b>
UTIA Extension In-Service Training, <i>Foundations of Sustainable Landscape Design</i>	
LAR 554/556 – Appalachia and Detroit: Sister Sites design studio, Critic	
GEOL 454 – Ecological Restoration, <i>Ecologically Driven Design</i>	<b>2019</b>
Go Green Home Summit, <i>Principles and Application of Sustainable Landscape Design, Management, and Construction</i> , Maryville College	
University of Tennessee Institute of Agriculture, Department of Plant Sciences - <i>Ecologically Driven Design: Moving Toward Sustainable Futures</i>	
Collaboration Studio, Guest reviewer for undergraduate and graduate students (TTU)	<b>2018</b>
West Texas ASLA CEU workshop, <i>Sustainable SITES Initiative</i>	
History of Landscape Architecture, Guest lecturer <i>Japanese Gardens and Cultural Landscapes</i> (TTU)	
The Art and Science of Restoration Ecology (transdisciplinary studio/lab), Guest reviewer for undergraduate and graduate students (TTU)	
LA Design Studio 2, Site Design, Guest lecturer <i>Field demonstration and Supervision, Ecological Transects and Site Inventory</i> (TTU)	
Collaboration Studio, Guest reviewer/charrette facilitator for undergraduate and graduate students	<b>2017</b>
History of Landscape Architecture, Guest lecturer <i>Japanese Gardens and Cultural Landscapes</i>	
LA Materials, Methods, Details 1, Guest lecturer <i>Planting Design: Biodiversity, Ecosystem Services, and Phytoremediation</i> (TTU)	
Master Planning, Guest reviewer for undergraduate and graduate students (TTU)	<b>2016</b>
LA Site Design, Guest lecturer <i>Bioswales and Urban Surface Hydrology</i> (TTU)	<b>2015</b>
Blanco County Master Naturalists, Guest lecturer <i>Herpetofauna of Blanco County Texas</i>	<b>2014</b>
Japan America Society of Greater Austin, Guest lecturer <i>Araki Mujinsai Ryu Iaido and the Koryu Martial Arts</i>	
<b>RESEARCH, PUBLICATIONS, PRESENTATIONS, AND PAPERS</b>	
Ludwig, A., <b>Ross, M.</b> , Roark, M., Choi, S. Rain Gardens for Tennessee: A Homeowner's Guide UT Extension W1137	<b>2023</b>
<b>Ross, M.</b> , Roark, M. Cleaner Water Through Site-Specific Floating Treatment Wetlands. Tennessee Greentimes 22(3) Fall 2021.	<b>2021</b>
<b>Ross, M.</b> , Roark, M. Cleaner Water Through Site-Specific Floating Treatment Wetlands.	

Tennessee Turfgrass August/September 2021. Reprinted with author's permission.

Nelson, K., **Ross, M.**, Sievers Ross, O., Park, S., Zhang, P. A National Survey Measuring Professional Attitudes Toward Sustainability and Sustainability Metrics. CELA Annual Conference.

Ludwig, A., **Ross, M.** Integrated Land Grant Missions to Prepare the Next Generation Practitioners for Sustainable Landscapes. Universities Council on Water Resources / National Institutes for Water Resources (UCOWR/NIWR) Annual Water Resources Conference.

Park, S., Currie, M., **Ross, M.**, Zhang, P. and Sievers Ross, O. Landscape Architectural Approach Toward Battlefield Preservation. CELA Annual Conference. **2020**

Ludwig, A., **Ross, M.**, Roark, M., Choi, S. Rain Gardens for Tennessee: Builder's Guide. UTIA Extension bulletin. In process.

**Ross, M.** Restoring Client Experience with the Natural World Tennessee Greentimes 21(4) Fall 2020.

Nelson, K., **Ross, M.**, Sievers Ross, O., Park, S. Professional Attitudes Toward Sustainability and Sustainability Metrics. CELA Annual Conference.

**Ross, M.**, Nelson, K. and Sievers Ross, O. Professional Attitudes Toward Sustainability and Sustainability Metrics. CELA Annual Conference. **2019**

Park, S., P. Zhang, **M. K. Ross**, and O. Sievers Ross. Landscape Architectural Approach on Battlefield Landscape Preservation, CELA Annual Conference.

**Ross, M. K.**, M. Kouhirostami, and M. Kouhirostamkolaei. The Effect of Road Intersection Angle on Ventilation: Urban Wind Corridor Simulation with Computational Fluid Dynamic Software, 2019 Book of Accepted Abstracts Association of Collegiate Schools of Planning (ACSP) Annual Conference.

Park, S. and **Ross, M.** Diversifying Collaborative Learning Experiences in Design Studio. CELA Annual Conference **2018**

Nelson, K., Horsford, J., Bernard, E., Park, S., Luo, Y., Klein, C., Currie, M, and **Ross, M.** Semester of Learning: A Qualitative Evaluation of the Development and Implementation of an Integrated Course Model. CELA Annual Conference.

**Ross, M.**, "Landscape Reimagined: The Chicago River and the Clybourn Industrial Corridor, Ecology as Design Intervention". MLA Thesis Project 2017 **2017**

**Ross, M.** & Park, S. "Landscape Reimagined: Ecology as Design Intervention. CELA Annual Conference. Beijing, China

National Park Service: American Battlefield Protection Grant Program (ABPP). Palmito Ranch Battlefield National Register Nomination. PI (80%): Sohyun Park, Co-PI: Charles Klein, Research Assistant: **Michael K. Ross** **2015 - 2017**

Laduc, T. J., D. Lannutti, **M. Ross**, and D. Beamer. 1996. "*Lampropeltis getula splendida* Diet." Herpetological Review 27:25 **1996**

#### MEMBERSHIPS

The American Society of Landscape Architects (ASLA)  
 Council of Educators in Landscape Architecture (CELA)  
 Society for Ecological Restoration (SER)  
 Sigma Lambda Alpha (SLA)  
 United States Green Building Council (USGBC)  
 Tennessee Native Plant Society (TNPS)  
 Native Plant Society of Texas (NPSOT)