

# REID RICHARDS COFFMAN

## Associate Professor

Kent State University, College of Architecture and Environmental Design  
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## GENERAL

- Education** The Ohio State University, Ph.D., Urban Ecology and Environmental Horticulture 2007  
*Dissertation Topic: Ecosystem Services of Vegetative Roofs*  
University of Colorado, Master of Landscape Architecture 1998  
University of Missouri, B.S. Human Health and Physical Education 1993
- Membership** Council of Educators in Landscape Architecture (CELA)  
Green Rooftops for Healthy Cities (GRHC)  
American Society of Landscape Architects (ASLA)
- Leadership** Coordinator, Master of Science and Environmental Design Program, Kent State University, College of Architecture and Environmental Design, 2018 – present  
Executive Director, Greater Ohio Living Architecture Center, 2018-present  
Executive Board Member, Green Roofs for Healthy Cities, Toronto, Canada 2017- present  
Editor in Charge, Journal of Living Architecture, 2013-current  
Research Liaison, College of Architecture and Office of the Vice President of Research, University of Oklahoma, 2010-2012
- Academics** Associate Professor, Kent State University, College of Architecture and Environmental Design, 2012-present  
Associate Professor, University of Oklahoma, Division of Landscape Architecture, 2011-2012  
Assistant Professor, University of Oklahoma, Division of Landscape Architecture, 2004-2011  
Graduate Assistant, The Ohio State University, Department of Horticulture 2002-2004  
Adjunct Faculty, The Ohio State University, Landscape Architecture Section 2001  
Graduate Research Assistant, University of Colorado, Department of Landscape Architecture 1997
- Professional** Principal, Geographica, Denver, CO 1998-2002, Norman, OK 2006-12, Ohio 2012+

## ACADEMIC CAPACITY BUILDING

### GREATER OHIO LIVING ARCHITECTURE CENTER

*Founder and Executive Director* 2018-present, Consortia of 19 Faculty members, 3 institutions, 12 disciplines with designation by the international trade organization (GRHC) for research, training and teaching of living architecture.

### JOURNAL OF LIVING ARCHITECTURE

*Editor in Charge*, 2013-present, 15 member international editorial board, 2 staff, 25 submissions/yr, 2-4 issues/yr.

### NOVEL ECOLOGY DESIGN LAB

*Founder and Director* 2013-present, collaborative living architecture projects, funding, and teaching.

# SYMPOSIA ORGANIZER

## LIVING ARCHITECTURE

*Organizer and Host* May 21 2019 (planned), gathering of 16 regional speakers, ~60 attendees, presenters, meetings, and trade exhibit.

## CLEVELAND GREEN ROOF SYMPOSIUM

*Organizer and Host* Aug. 23 2016, gathering of 12 national speakers, 58 attendees, presenters, panels, and trade exhibit.

## NATURAL | DESIGNED ECOLOGIES SYMPOSIUM

*Organizer and Host* Oct. 04 2017, gathering of 15 speakers, 350 attendees for presentations and special sessions.

## OKLAHOMA GREEN ROOF SYMPOSIUM

*Organizer and Host* Aug 7 2012, 23 Speakers, 550 attendees, international speakers, research panel, and tours.

# FUNDED RESEARCH PROJECTS

*Led \$849,400 as PI on a total of \$1,013,900 in interdisciplinary team funding.*

## Biodiversity Roofs as Novel Ecosystems

*Speculative Living Architecture*

This project investigates living architecture's role in wildlife assembly and ecological service synergies and tradeoffs. Coffman, R., Bahlai, C., and G. Stroh, with the Cleveland Metroparks, (\$12,000) (60%) ESDRI, Kent State University, June 2018-Aug 2019

## River Dredge Reuse

*Living Architecture and Green Infrastructure*

These projects examine the potential beneficial reuse of river dredge for living architecture and green infrastructure applications in two phases. *Dredged Material for Stormwater Management*, Lake Erie Protection Fund, Liu, R. and Coffman, R., (\$14,970 PHASE 1 - 50%) Jan-Dec 2015. *Dredge Materials for Green Infrastructure*, (\$60,000 PHASE 2 - 50%) July 2016-2018

## Green Infrastructure

*Stormwater Design Tool*

This project is the creation of an interdisciplinary green infrastructure design tool based on ecological service synergies and tradeoffs theory. Cleveland Metroparks, Jefferson, A., Coffman, R., and L. Kinsman-Costello, (\$90,000) (30%) Jan. 2015-Dec. 2016

## Surface Reclamation

*Testing the (Storm) water: Techniques for surface reclamation on urban brownfields*

This project created a moveable form of green infrastructure deployable for temporary (and permanent) installation to help sites meet local stormwater compliance. (Provisional patent pending) US Environmental Protection Agency; P3 program, Coffman, R., Lui, R., Jefferson, A., and Blackwood, C., (\$14,685) (40%) Aug. 2014-Aug. 2015

## Bike Box | Living Lab

*High Profile Green Infrastructure*

The Bike Box | Living Roof Lab project demonstrates the ability of green infrastructure to mitigate non-point source storm water runoff, while providing a continuous examination of the role novel ecosystems may play in the city. Located in the high profile Gordon Square District on Cleveland's West Side, the project aims to inform local citizens of the benefits provided by a vegetative roof system, while investigating ways to increase productivity of native species on extensive green roofs in Northeast Ohio. Northeast Ohio Regional Sewer District, S3PD program, Coffman, R. and Peckham, G. (\$11,700) (100%) Jul. 2013-Jul. 2014

## Green Shield

*Low Impact Development Best Management Practice Demonstrations for the Little River Watershed*

This project investigates the effectiveness and sustainability of stormwater Best Management Practices at a watershed and neighborhood scale. This project is a five year multi-treatment collaborative investigation including constructed wetlands,

experimental neighborhood design, model code development, and public education. This grant supports the planning, design, and construction of urban stormwater practices and evaluates the various treatments. I serve as team leader and Prime Investigator. Sponsor is the Oklahoma Conservation Commission. \$705,472. P.I. 60%, Co-investigators include Boeck, D. (Architecture), Nairn, B. and Strevett, K. (Environmental Science), Warnken, C. (Regional and City Planning), and McManus, W. (Construction Science). Partners include City of Norman, Terra Verde Land Development, LLC., CH Guernsey Engineering. 2009-2015

### **Experimental Green Roof**

#### *Vegetative Roof System Investigation for Water and Energy Relationships in Extreme Climate Conditions*

This project investigated the viability of vegetated roof systems for coupled water and energy savings. A 1200 s.f. experiential roof was designed, installed and examined on the roof lab of the National Weather Center in Norman, Oklahoma. Findings suggest common green roof plant species used in temperate settings will not survive in the extreme climatic conditions present in the Southern Central Plains and future work should target regionally adapted prairie species. It appears that even limited plant coverages have positive effects on the energy balance of the roof. I am the project leader and Prime Investigator. Oklahoma Water Board P.I. 80%, \$86,400 Co-investigators include Klein, P. (Meteorology) and Fithian, L. (Architecture). Norman, OK 2009-2012

### **Green Roof Microcosms**

#### *Hydrology and Plant Performance in Vegetative Roofs*

This project investigated the hydrological retention, plant survival and growth of grasses, wildflowers and shrubs in vegetative roof microcosms. Results showed lower than predicted stormwater retention in severe events, viability for stormwater recycled irrigation, and high survival in grass-like plants. I led and executed the project as a part of my doctoral work. Sponsor was the Ohio Agriculture and Research and Development Center \$16,500 P.I. 80% Co-investigator/advisor M. Quigley (Horticulture). OSU Agricultural Farm, Columbus, OH, 2004-2007

### **Vegetative Roofs**

#### *Study of Biodiversity on Non-Habitat Oriented Roofs.*

This study investigated the faunal community of roofs designed without biodiversity goals to examine the 'field of dreams' hypothesis. Results showed distinct fauna communities developed in non-habitat oriented green roofs thus confirming the theory. I led and executed the project as a part of my doctoral work. Sponsored by the National Wildlife Federation \$2,400 P.I. 100% Ford Assembly Plant, Dearborn, MI and Wexner Center for the Performing Arts, Columbus, OH 2004-06.

## **PUBLICATIONS**

### **Refereed**

1. C Bhairappanavar, S., Liu, R. and Coffman, R., 2018. **Beneficial Uses of Dredged Material in Green Infrastructure and Living Architecture to Improve Resilience of Lake Erie.** *Infrastructures*, 3(4), p.42.
2. Coffman, R., Fithian, L. and Akins, E. 2017. **Deploying shipping containers for innovative living architecture education.** *Journal of Living Architecture*, Vol. 4 Issue 2, pp 1-16.
3. Liu, R., and Coffman, R. 2016. **Lightweight Aggregate Made from Dredge Material in Green Roof Construction for Stormwater Management,** *Materials*, 9(8).
4. Mitchell, K., Ladoceur, A., Lui, R., and Coffman, R., 2016. **Triple Bottom Line Cost-benefit Analysis of Green Infrastructure in Norman, Oklahoma.** *The International Journal of the Constructed Environment*, Vol 7, Issue 4, pp.1-15.
5. Vogel, Jason R., Moore, Trisha L., Coffman, Reid R., Rodie, Steven N., Hutchinson, Stacy L., McDonough, Kelsey R., McLemore, Alex J., and McMaine, John T. 2015. **Critical Review of Technical Questions Facing Low Impact Development and Green Infrastructure: A Perspective from the Great Plains.** *Water Environment Research* 87;9 849-862.
6. Klein, P., and Coffman, R., 2015. **Establishment and Performance of an Experimental Green Roof under Extreme Climatic Conditions.** *Science of the Total Environment* Volumes 512–513, 15 April, Pages 82-93, ISSN 0048-9697,
7. Chavez, R., Brown, G., Coffman, R. and Storm, D. 2015. **Design, construction and lessons learned from Oklahoma bioretention cell demonstration project.** *Applied Engineering in Agriculture*, 31 (1)

8. Coffman, R., Graves, D. and Vogel, J. 2015. **Vegetation in dryland bioretention.** *Landscape Research Record*, No. 4 Pages 58-71
9. Coffman, R., Cech, S. and Gettig, R. 2014. **Living architecture and biological dispersal.** *Journal of Living Architecture*, 1(5) Pages 1-9
10. Sutton, R., Harrington, J., Skabelund, L., MacDonagh, P., Coffman, R., and Koch, G. 2012. **Prairie-Based Green Roofs: Literature, Templates and Analogs.** *Journal of Green Building* Vol 7, No 1 pages 143-172
11. Coffman, R. and Waite, T. 2011. **Vegetated Roofs as Reconciled Habitats: Rapid Assays Beyond Mere Species Counts.** *Urban Habitats*, May
12. Oberndorfer, E., Lundholm, J., Bass, B., Connelly, M., Coffman, R., Doshi, H., Dunnett, N., Gaffin, S., Köhler, Liu, K., Rowe, B. 2007. **Green Roofs as Urban Ecosystems: Ecological Structures, Functions, and Services.** *Bioscience*, Vol. 57 , issue. 10, Nov

#### **In Prep**

- 'Novel Habitat: Eco-Industrial Recycling of River Dredge for Living Architecture' multi-author, *J. of Env. Management*  
 'Spontaneous vegetation in three media types' multi-author, *J. of Living Architecture*

#### **Edited**

- Coffman R. 2018 **"Elevating Nature: Milan's Bosco Verticale"** *Biophilic Cities Journal*, May  
 Coffman R. and Strosnider, K. 2009 **"Public rain gardens for water quality in extreme environments."** *Land and Water Magazine*, Nov-December pgs 37-40  
 Coffman, R. 2009 **"Elevating Habitat: Creating biodiversity through quasi-traditional green roof design."** *Landscape Architecture Magazine*, Vol 99, No 1, Jan pgs 72-77  
 Coffman, R. and Thurmond, A., 2008 **"Creating Habitat by Design"** *Living Architecture Monitor*, Vol. 10, No 1, Winter, pgs 32-33

#### **Conference Peer Reviewed**

1. Coffman, R. 2018 Living Architecture Performance Tool, Council of Educators of Landscape Architecture (CELA) Blacksburg VA March
2. Colwell, E., Coffman, R. and Ryan, R. 2015 Rain Water Harvesting Practitioners Most Influenced by Environmental Ethic, Council of Educators of Landscape Architecture (CELA) Manhattan, KS March
3. Mitchell, K., Ladoceur, A., Lui, R., and Coffman, R., 2014 Triple Bottom Line Cost-benefit Analysis of Green Infrastructure in Norman, Oklahoma Constructed Environment Conference, Pennsylvania Oct 16<sup>th</sup>
4. Markwardt, C., Coffman, R., Sharag-Eldin, A., and Graves, C. 2013 Parking Produce: Agricultural applications of car parks, in the Proceedings of the CitiesAlive Conference, San Francisco, CA Oct 21,
5. Coffman, R. Cocchiara, D. 2012 Green roof efficiency: Investigating Oklahoma's Winnie Mae House, Council of Educators of Landscape Architecture Annual Conference, Champaign Illinois, March
6. Kousiakis, F., Coffman, R. and M. Santamouris 2012 The Nursery School Green Roof of Athens, Greece Council of Educators of Landscape Architecture Annual Conference, Champaign Illinois, March
7. Coffman, R. 2008 **"A green toupee? Questioning the sustainability of vegetated roof systems"** blu+verde 2nd International Congress Milan, Italy Oct
8. Coffman, R. 2008 **"Understanding the green toupee: Selecting vegetated roof systems for urban development and sustainability goals,** Urban Design and Ecology Conf., IFLA, St Petersburg, Russia, June
9. Coffman, R. 2007 **"Ecoroofs as Habitat? Assessing biodiversity Across Green Roof Class."** In the proceedings of the Greening Rooftops for Sustainable Communities Conference, Minneapolis, MN, May
10. Coffman, R. and Davis, G. 2005 **"Insect and Avian Fauna Presence on Ford's River Rouge Plant."** In the proceedings of the Greening Rooftops for Sustainable Communities Conference, Washington D.C, May
11. Coffman, R. and Martin, J. 2004 **"The Sustainability of an Agricultural Roof Garden"** In the proceedings of the Greening Rooftops for Sustainable Communities Conference, Portland, OR, May

# PRESENTATIONS

## Keynote

- Oklahoma Clean Lakes and Watershed Associate, "Perspectives on LID" Annual conference, Oklahoma State University, Stillwater, OK (w/ J. Vogel) April 5, 2018
- University of Nebraska-Omaha, "Situating Research with Ecosystem Services". Great Plains Low Impact Development Conference, March 7, 2016
- The Ohio State University, Knowlton School of Architecture and Chadwick Arboretum, "Fuzzy Positioning: Vegetative roof system conceptualization in the age of emerging ecological theory", kick-off for the Experimental Roof Research Design Competition, March 5, 2010
- Oklahoma Clean Lakes and Watershed Associate, "Green Infrastructure" Annual conference, Oklahoma State University, Stillwater, OK (w/R. McKown) April 11, 2008

## Academic

- University of Oklahoma, "Exploring living Architecture" College of Architecture, April 4 2018
- Kent State University, "In the World of Living Architecture" Fifth Annual Water and Land Symposium: Natural | Designed Ecologies Oct. 5, 2017
- University of Toronto, College of Architecture, Landscape and Design, Arc 341 Building Systems, 'Coupling | Stacking | Bundling Green Infrastructure', Mar. 02, 2014
- University of Akron, Integrated Bioscience Speakers Series 'Investigating Ultra-Urban Ecological Infrastructure' Feb. 14, 2014
- University of Cincinnati, School of Design 'Recovering Vacant land' Vacant Land Occupied Charrette, Jan. 17, 2014
- Swedish University of Agricultural Sciences, Dept. of Ag. Eng. "Measuring the Sustainability of Green Roofs" (video lecture) Fall 2009
- Kansas State University "Fluffy Positioning: Vegetative roof system conceptualization in the age of emerging ecological theory" LA Program Lecture Series, Spr. 2009
- University of Texas at Austin "Fluffy Positioning: The presence of biophilia and ecosystem services theory in vegetated roof system conceptualization and implementation" LA construction course, (Graduate), Spr. 2009
- Arizona State University "Vegetative Roofs and Ecosystem Services" LDE 363 & 461 (Undergraduate Studios) Fall 2008
- University of Cincinnati "Ecoroof Habitat" in ARCH 754 Special Topics: Vegetated Roofs (Graduate Seminar) Spr. 2008
- LABASH Annual Meeting "Systems and Seres: Ecological design in the a.m." Sustainable Design Workshop at 2005

## Conference

- Coffman R., "Compartmentalizing Ecology for Living Architecture" EDRA Oklahoma City June 2, 2018
- Coffman R., "Living Architecture and Ecosystem Services Signature" Council of Educators of Landscape Architecture Annual Conference, Virginia Tech March 23, 2018
- Coffman R, and Grieser, J. 'The Team Tool' Ohio Storm water Conference, Sandusky, Ohio May 8 2017
- Coffman, R., Graves, D. and Vogel, J. "Vegetation in dryland bioretention", Council of Educators of Landscape Architecture (CELA) March 2015
- Coffman, R. and Shadid-Anvar, M. 'Establishing Dryland Plants in Semi-arid Rain Gardens', Great Plains Low Impact Development Symposium, Apr. 02, 2014.
- Frost, B., Coffman, R., Nairn, B., and Rice, M. 'Proactive Landscape Design Addressing Water Quality in Lake Thunderbird Watershed' Oklahoma Clean Lakes and Watershed Annual Meeting. Tulsa, OK April 15 2013
- Coffman 2010 "Promising ecology: The use of ecological theory in design education and professional practice of landscape architecture", Ecological Society of America, Pittsburgh, PA Presented Aug
- Coffman, R, Simmons, M. and Snodgrass, E. 2010 "How to avoid green roof failure: A critique of three vegetative roofs with compromised performance objectives" Council of Educators of Landscape Architecture Annual Conference, Maastricht, The Netherlands, Presented May
- Coffman, R. 2010 "Investigating creative potential within the ecosystem services theory" Council of Educators of Landscape Architecture Annual Conference, Maastricht, The Netherlands, Presented May
- Coffman, R 2009 "Silver bullet or green toupee? The sustainability of vegetated roof systems" CELA Tucson, AZ, Presented Jan
- Coffman, R 2008 "Understanding the green toupee: Measuring sustainability in vegetative roof systems" ECLAS Annual Conference, Malmo, Sweden, Presented Sept
- Coffman, R. 2007 "Understanding Assignments: Improving the Edge Condition of a Mitigation Wetland" Council of Educators of Landscape Architecture Annual Conference, State College, PA, Presented Aug

## Panels

- Coffman R., Russel, V., Sanchez, M., and L. Skabelund 'Living Architecture and Landscape Architecture: Adjacencies and Overlaps', Council of Educators of Landscape Architecture Annual Conference, Virginia Tech March 23, 2018
- Holthouse-Brennan, A. Wyss, R. and Coffman, R 2013 'Stormwater impacts and innovative solutions', The City Club of Cleveland, May 23<sup>rd</sup> <http://www.cityclub.org/Media/Audio/CityClubPodcast-130523.mp3>
- Hopman, D., Coffman, R. Dvorak, B and Flemming, W. 'Vegetative roof plant establishment in south central plains', Council of Educators of Landscape Architecture Annual Conference, University of Texas, Austin TX March 29, 2013
- Lanman, A., Bentley, J., Peterson, S., Callahan, M., Coffman, R., Fitzsimmons, K. 2008 "The sustainable home" Annual Conference of the Oklahoma Sustainable Network, Panel- member, Apr
- Dalton, D., Coffman, R., Conners, S., and Fithian, L. "Defining Sustainability" 2009 Oklahoma Association of American Public Workers Annual Conference, Norman, OK, Mar
- Lieder, C., Coffman, R. Fithian, L. and Rauhe. W. 2006 'Shifting Scales Sustainability at the Community Level' Council of Landscape Architects Conference Panel member. Presented Jul

## Posters

- Nelson, M., Laffay, E., Coffman, R. and R. Liu, Analog Habitats using Riverine Dredge Materials, CitiesAlive, Seattle, New York, NY Sept. 22, 2018
- Droz, A., Coffman, R., and Blackwood, C., Green Roof of the Great Lakes Region: Quantifying Interactions between Plants and Soils, CitiesAlive, Seattle, New York, NY Sept. 22, 2018
- Tawk,L., Coffman, R., Rennie, J, and C. Bahlai Baseline Measures for Vegetative Roofs, CitiesAlive, Seattle, New York, NY Sept. 22, 2018
- Droz, A., Coffman, R., and Blackwood, C., 'Spontaneous Vegetation in Three Green Roof Media', CitiesAlive, Seattle, WA Sept. 27, 2017
- Laffay, E. and Coffman, R. 'Rare Plant Establishment in the Great Lakes', CitiesAlive, Seattle, WA Sept. 27, 2017
- Bhairappanavar, S Coffman, R., Liu, R., and Sharag-Eldin, 'Ecological Green Wall Built Using Dredged Material', CitiesAlive, Seattle, WA Sept. 27, 2017
- Jansinski, J., Coffman, R., and Wagner, M. 'Bike Box Living Roof Project', CitiesAlive, Nashville, TN November 14-16 2014
- Jansinski, J., Coffman, R., and Wagner, M. 'Bike Box Living Roof Project', Kent State University Water Symposium, Oct. 31, 2014
- Mitchell, K., Ladoceur, A., Lui, R., and Coffman, R., 'Triple Bottom Line Cost-benefit Analysis of Green Infrastructure in Norman, Oklahoma' Constructed Environment Conference, Pennsylvania Oct 16<sup>th</sup> 2014
- Reindell, N., Nester T. and Coffman R. 'Communicating Non-point Source Practices through Distilled Graphic Representation' 21<sup>st</sup> Annual National Non-point source pollution conference, Cleveland OH Oct 28 2013
- Dohar, C. and Coffman, R 'Emerging Stormwater Management for Brownfields' Kent State University Water Symposium, Kent State Hotel, November 14, 2013
- Reindell, N., Nester T. and Coffman R. 'Communicating Non-point Source Practices through Distilled Graphic Representation' Kent State University Water Symposium, Kent State Hotel, November 14, 2013
- Novonty, L. and Coffman, R. 'Constructing Rain Gardens', Oklahoma Governors Water Conference, Norman OK 2011
- Coffman, R. Klein, P. Fithian, L. and Vogel, J. 2011 'Atmospheric and Energy Studies in a Semi-Arid Experimental Station', GroWest: Western Green Roofs Annual Conference, Poster presentation June
- Coffman, R. Klein, P. and Fithian, L. 2010 'Atmospheric and Energy Studies in a Semi-Arid Experimental Station', CitiesAlive Annual Conf. Vancouver, BC Canada poster presented Dec
- Phelan, M and Coffman, R. 'Trailwoods Greenstreet' Oklahoma Governors Water Conference, Norman OK 2010
- Thurmond, A. and Coffman, R. 2008 'How to Save a Bird Species: Ecoroofs, Reconciliation Ecology and the Dickcissel' Poster Presentation, Greening Rooftops for Sustainable Communities Conference, Baltimore, MD Presented May
- Coffman, R. and Johnson, K. 2007 'Creating Habitat: Soils Properties and the Swiss Ecoroof Biodiversity Movement' Environmental Design Research Association Annual Conference, Sacramento, CA, poster Presented Jun

## ADDITIONAL CAPACITY/FUNDING

External Charity/Sponsorship	2017	Cleveland Metroparks, Natural   Design Ecologies Symposium, (\$500)
	2017	MKSK Landscape Architecture and Urban, Natural   Design Ecologies Symposium, (\$500)
	2016	Firestone Corporation, Rare Species Study (\$1500)

2016 Environmental Design Group, Student Travel Fund (\$2500)  
 2015 Environmental Design Group, Student Travel Fund (\$1500)  
 2010 City of Moore, Design Charrette (\$2500)  
 2007 City of Norman, Green Infrastructure Workshop (\$300)

#### Internal Funding

2010 COA International Travel Support for two presentations at the Annual CELA conference, Maastricht Netherlands May (\$3,100)  
 2008 Faculty Senate, Faculty Development Grant: "Understanding the Green Toupee" Travel to St. Petersburg, Russia (\$2,314)  
 2007 COA, Bryan Funding for travel to present "Ecoroof habitat? Assessment of biodiversity across green roof class" at the Greening Rooftops for Sustainable Communities Conference (\$1000)  
 - Office of Research, Travel Grant for "Ecoroof Habitat? Assessment of biodiversity across green roof class" at the Greening Rooftops for Sustainable Communities Conference (\$500)  
 - COA, General funding for travel to present "Creating Habitat: Soils Properties and the Swiss Ecoroof Biodiversity Movement" (w/ Kristina Johnson) Poster Presentation Environmental Design and Research Conference) (\$1000)  
 - Honors College, Research Assistantship, "Reconciliation ecology in green roofs" 2007 (\$600)  
 2006 COA Bryan Funding for travel to present "Shifting Scales Sustainability at the Community Level" Council of Landscape Architects Conference (\$1000),  
 2005 COA Bryan Funding for travel to present "Insect and Avian Fauna Presence on Ford's River Rouge Plant." Greening Rooftops for Sustainable Communities Conference, Washington D.C (\$700)  
 - Office of Research Travel Grant for "Systems and Seres" LABASH, The Ohio State University Columbus, OH (\$340)  
 - Faculty Senate, Faculty Development Grant: "Biodiversity in European Ecoroofs" P.I. (\$2,300)

#### Books/Videos

Dunster, K. and Coffman, R. 2015 "Placing green roofs in time and space" in Green Roof Ecosystems by Sutton, R. Springer. pages 357-390  
<http://www.springer.com/gp/book/9783319149820>  
 Selected Photography in "Green Roofs in Sustainable Landscape Design" by Steven Cantor, Sept 2008  
 "Ecoroofs and the Prairie Plinths" Video lecture/interview. Permanent collections. Wexner Center for the Performing Arts. Columbus Ohio Apr 2005

#### Fellowships/Awards

Teaching Grant, Landscape Architecture Foundation, Landscape Performance Series. 'Urban Ecological Systems', (\$2500) Spring 2016  
 Honor Award, Research Category, Central States American Society of Landscape Architecture (Seven state region), 'Construction of Rain Gardens with Expanded Clay', 2011  
 Pisces Award, US & Region 6 Environmental Protection Agency, 'Experimental Green Roof', (w/ L. Fithian and P. Klein) Oklahoma City 2011  
 Outstanding Research Faculty, College of Architecture, University of Oklahoma, 2010  
 Award of Excellence, Keep Oklahoman Beautiful, 'Experiment Green roof at the National Weather Center' (w/ L. Fithian and P. Klein) 2010  
 Big-12 Fellowship at the University of Texas Austin School of Architecture and The Ladybird Johnson Wildflower Center, Green Roof Research Project, OU Provost's Office 2008  
 Merit Award, Research Category, Central States American Society of Landscape Architecture (Seven state region), 'Vegetative Roof Systems; A Multi-study Investigation' 2008  
 Merit Award, OKASLA, Research Category, 'Ecoroof Research Paper Compilation' 2007  
 Campus Ecology Fellowship, National Wildlife Federation, "Vegetative Roofs' 2004  
 National Design Award, United Cerebral Palsy, Open Category, 'The Sea- A playground' 2000

## Mentored Student Awards

Honor Award, Student Category, Ohio Chapter ASLA, 'Bike Box|Living Roof Lab' group project 2014  
King Medal, Architectural Research Center Consortium, for 'Parking Produce: Assessment of Agricultural Applications on Car Parks' by Claire Markwardt 2014  
Merit Award, Central States American Society of Landscape Architecture (Seven state region), by Adam Fendrick, Brent Wall and Jonathan Garner, 'Updegraff Park' 2011  
Merit Award, Central States ASLA (Seven state region) Student Design Category, 'Beacon Elementary' by M. Phelan, C. Pham and C. Newsome, (w/L. Fithian) Developed in LA 5535 Studio III 2010  
Merit Award, OKASLA Student Design Category, 'Saxon Park' by B. Wall, Developed in LA 5535 Studio III 2009  
Honorable Mention, Oklahoma Water Resources Research Institute Research, Constructing, 'Rain Gardens for Oklahoma's Hydrology' by Adam Fendrick and Jared Shadid, 2009  
Merit Award, Central States ASLA (Seven state region) Student Design Category, 'Cross Park' by J. Wilson, Developed in LA 5535 Studio III 2008  
Merit Award, Central States ASLA (Seven state region) Student Design Category, 'Saxon Park' by B. Wall, Developed in LA 5535 Studio III 2008  
Award Winner, Architectural Research Centers Consortium, 'How to Save a Bird Species: Ecoroofs, reconciliation ecology and the dickcissel' by Allison Thurmond, 2008  
Merit Award, OKASLA Student Design Category, 'Cross Park' by J. Wilson, Developed in LA 5535 Studio III 2007  
Merit Award, OKASLA Professional Un-built category, 'Ox-Bow Park Phytoremediation' by S. Nieroda, Developed in LA 6990 Graduate Project 2006

## TEACHING

### Current Courses

Living Architecture (ARCH 56995/46995)  
Contrived Natures (ARCH 46995)  
Vegetated Roofs and Walls (planned 2019)  
Living Architecture Studio 5 (LARC 60201)  
Living Architecture Innovation (ARCH 56995)  
Urban Ecological Systems Spr. (UD65632)  
Methods of Inquiry (ARCH 60922)  
Urban Design Capstone (UD 60704)  
Individual Investigation (UD 66996)  
Thesis sequence (AED 5/6000)

### Previously Instructed Courses

Studio 1 Foundations (LARC 50101)  
Studio 4 Urban (LARC 60104)  
Plants and Planted Form (LARC 60601)  
Urban Ecology of Florence (ARCH 46995)  
Vegetative Roof System Design (LA 6990)  
Sustainable Sites Seminar (LA 6990)  
'Ecological Systems' Design Studio III (LA 5535)  
Research Methods (LA 5403)  
Plant Materials 2005 (LA 5713)  
Planting Design (LA 5924)  
Design Studio I 'Introduction to Design' (LA 5515)  
Design Studio IV 'Urban Design' (LA 5545)  
Design Studio III 'Human Factors' (LARCH 254)  
Planting Design Studio (LARCH 633)  
Landscape Plants (HCS 234)  
Landscape Ecology (LA 5530)



<b>PhD Committees</b>	<b>(Member)</b>	<p>Lama Tawk, (co-advisor) 'Cliff ecology for living architecture' Biology Department, Kent State University, current</p> <p>Katherine Manning 'Adaptive natural templates for living architecture' Biology Department, Kent State University, current</p> <p>Elena Stachew 'Biomemetics of shoreline stabilization', Integrated Bioscience Program, University of Akron, current</p> <p>Anna Droz, 'Biological co-benefits of green infrastructure', Biology Department, Kent State University, current</p> <p>Lee Fithian, 'Greening double walled facades', Civil and Environmental Engineering Department, University of Oklahoma, current</p> <p>Michael Harris, 'Exogenous Influences upon commercial real estate land values' Geography Kent State University, current</p> <p>Rachel Moser, 2011 'The Assessment of Low Impact Street Design' College of Engineering, University of Oklahoma</p>
<b>Master's Thesis</b>	<b>(Member)</b>	<p>Shruti Bhairappanavar 'Ecological Green Wall Built Using Dredged Material' MSAED, Kent State University, current</p> <p>Kimm Jarden, current 'Hydrologic performance of rain gardens' Geography Kent State University 2015</p>
<b>Masters Project Committees</b>	<b>(Chair)</b>	<p>Tawk, Lama, current 'Moss ecology for living architecture'</p> <p>Flick, Heather 2016. 'Ecomimicry in Urban Social Infrastructure'</p> <p>Fishbaugh, Colin 2015 'The Biophilic City'</p> <p>Russell, Catlin 2015 'Collective Body: Urban brownfield redevelopment'</p> <p>Markwardt, Claire 2014 'Car Parks as Ecological Hubs' (Urban Green Infrastructure)</p> <p>Dohar, Chris 2014 'Envisioning brown field hydrology' (Brownfield Reclamation)</p> <p>Kousiakis, Fotis 2012 (Vegetative Roof)</p> <p>Phelan, Megan 2011 (Urban Green Infrastructure)</p> <p>Shadid, Jarod 2011 (Urban Green Infrastructure)</p> <p>Pierce, Mark 2010 (Environmental Golf Course Design)</p> <p>Deaton, Chad 2010 (Conservation Development)</p> <p>Wall, Brent 2009 'Healing a Healthcare Campus' (Sustainable Site Design)</p> <p>Wilson, Jord 2009 'Westwood Community' (Urban Design)</p> <p>Griffin, Iyla 2009 'Making Tracks' (Streams/Greenway Design)</p> <p>Strosnider, Kristina 2008 'Changing Paradigms' (Greenway and Park Design)</p> <p>Wilson, Craig 2008 'Living Communities Park' (Phytoremediation/Streams Design)</p> <p>Driscoll, Kelly 2007 'Divergent Theory in Urban Waterways' (Streams/Park Design)</p> <p>Mabry, John 2007 'DOC Memorial Garden' (Garden Design)</p> <p>Nieroda, Steve 2006 'Contemporary Landscape Architecture' (Phytoremediation/Park Design)</p> <p>Pokhrel, Namrata 2005 'OKC Farmers Market District' (Urban Design)</p>
	<b>(Member)</b>	<p>Taylor, R. 2012 Green roofs In Urban Design (Architecture)</p> <p>Leach, J. 2012 Sustainable Hydrologic Systems in Mixed Used Development (Architecture)</p> <p>Yowell, J 2010 Biomimicry and Building Skins (Architecture)</p> <p>Fendrick, A. 2010 Mine Reclamation (Landscape Architecture)</p> <p>Sugimato, W. 2010 Planning an Ethnic Community from the Ground Up: A Case Study of the Oklahoma City Asian District (Regional and City Planning)</p> <p>Cook, A. 2009 Master Plan for the campus of Addis Ababa University</p> <p>Faulkner, E. 2009 Brownfield's Redevelopment: A guide of Oklahoma's Communities (Regional and City Planning)</p> <p>Hewett, J. 2008 Frontier City Park</p> <p>Arora, C. 2008 Oklahoma City River walk</p>

Wimer, L. 2007 Celebrating the Past Redesigning Washington Park  
Blackburn, E. 2007 Creating a Legacy Community for Norman, Oklahoma  
Friese, S. 2006 The Cottonwood Re-imagined

## SERVICE

### Professional

#### Editor

Editor-in-charge, **Journal of Living Architecture** Nov. 2016- current  
Co-Editor-in-charge, **Journal of Living Architecture** Jan 2014-16

#### Member

Executive Board of Directors, Green Roofs for Healthy Cities, 2017- current

#### Chair

Chair, Research Committee, Green Roofs for Healthy Cities, 2017-current  
Vice-Chair, Research Committee, Green Roofs for Healthy Cities, 2013 -2017

#### Juror

- Ohio ASLA, Professional Awards, 2014
- Great Plains LID Design Competition, 2014
- Prairie Gateway Chapter ASLA Annual Awards 2011
- Prairie Gateway Chapter ASLA Annual Awards 2008

#### Grant reviewer

- Ohio Water Resource Center and National Institutes for Water Resources 104(b) Grant program Dec 2012 and 2013
- Canadian Academy of Arts and Sciences, 1 Grant proposal 2009
- Canada Foundation for Innovation, 1 Grant Proposal 2008

#### Peer reviewer

- Chapter on design for Urban Ecology text by Springer Mar. 2013
- Council of Educators of Landscape Architecture- Annual Conference. 5 Abstracts 2 papers 2013
- Landscape Architecture of the Netherlands Program on Research Apr. 2013
- Urban Forest and Urban Greening (2 manuscript) 2009, 2011
- Journal of Environment Management (3 manuscripts) 2005, 2006, 2008
- HortTech (1 manuscript) 2006
- CELA Annual Conf. abstracts 2010, 2011
- Green roof biodiversity assessment protocols, Greening Rooftops for Healthy Cities 2008(39 abstracts, 2 papers)
- Greening Rooftops for Sustainable Communities Conf. Proceedings (34 abstracts) 2007
- Greening Rooftops for Sustainable Communities Conf. Proceedings (32 abstracts, 2 manuscripts) 2006
- Greening Rooftops for Sustainable Communities Conf. Proceedings (30+ abstracts, 2 manuscripts) 2005

#### Member,

- Editorial Board, **Journal of Living Architecture** 2013-14
- Research Committee, Greening Rooftops for Healthy Cities GRHC, 2004-present
- American Society of Landscape Architects 1998-present
- Green Roofs for Healthy Cities 2004-present

#### Moderator

- Session V, International Perspectives: Urban and Ecological Design, St. Petersburg Russia 2008
- Break out session, Local Water Global Water, Dennison University 2004

#### Annual Conference Attendee

- CELA 1998, 2006, 2007, 2008, 2009, 2010
- ECLAS 2008
- Central States ASLA 2007, 2008, 2010
- OKASLA 2005, 2006, 2007, 2008, 2009, 2010
- National ASLA 1999, 2000, 2001

-Greening Rooftops for Sustainable Cities 2003, 2004, 2005, 2006, 2007

## Community

### Guest speaker

- “Vegetative Roofs” Architecture 2030, Cleveland, Sum. 2018
- “Urban Green Infrastructure”, Cleveland Co. Extension April 2010
- “Green Roofs- The Basics” Sierra Club OKC, Aug 2009
- “Green Roofs” Latino Community Development Center, OKC Nov 2008
- “Green Roofing Potential” Oklahoma Chapter of USGBC, OKC September 2008
- “LID Green Development” (w/Richard McKown) Norman Business Association, August 2008
- “Vegetative Roof Systems: Roof greening in Oklahoma” Oklahoma County Ext. Office, March, 2008
- “Green roofs: Layering Ecological infrastructure in Oklahoma” Tulsa Sierra club, 2007
- “Green roofs: Layering Ecological infrastructure” Cleveland County Extension, 2006

### Co-Chair

- Conservation Planning Working Group, Green Infrastructure Task Force, Oklahoma City Planning Department, 2008

### Member

- Green Infrastructure Task Force, Oklahoma City Planning Department, 2008-2010
- AIA SDAT Reno Corridor Environment Committee Oklahoma City Planning Department, 2005-2007
- Horticulture Program Advisory Board Member, Cleveland County Extension, 2005-2007
- Green Roof Committee, Mid Ohio Regional Planning Council 2004-06

### Advisor

- Civic Garden Center, Green roof research project Cincinnati Ohio 2008

## University

### Member

- Provost Advisory Committee 2014-15

### Mentor

- National Science Foundation, Research Education Undergraduate, with Kent State Biology Dept. Summer 2014

### Participant

- KSU/Cuyahoga Valley National Park MOU committee 2013

## College

### Chair

- Research and Information Committee AY 2013-15, new travel Policy/ Research plan.
- Search Committee, Landscape Architecture Coordinator Spr. 2017
- Search Committee, Landscape Architecture Coordinator AY2013-14
- LA Lecture Series ‘Water in the Landscape’ Fall 2011
- LA Division Curriculum committee 2009-2012
- Second year (gate) student review 2006-2010

### Advisor

Student Chapter of the American Society of Landscape Architects 2004- 08

Various activities included:

- Initiated a lunch speaker “Brown Bag” series approx. 8 guests per year 2004-08
- LABASH Annual Meeting, Univ. of Guelph, Canada, Spr 2008
- CSASLA, Annual Meeting, St. Louis, MO Spr 2008
- OKASLA Annual Meetings, 2005 - 2008
- Placed a student representative on OKASLA Exe. Committee.
- Secured UOSA speaker funding (~\$2,000 annually) 2004-08
- LA Week, OU Gould Gallery Spr 2008
- Exhibit of Student Work “S.O.D.- Sustainable, Organic, Degradable” Spr. 2008
- Mike Lin Graphics Workshop Fall 2007

- Division Graphic design competition Spr 2008
  - Campus Arbor Day Plantings Spr 2008
  - LA Graduation Reception with SPA Spr. 2008
- Innovator and Instructor (w/several COA faculty)
- COA Pre-collegiate Academy 2010
  - COA NPS GT Program 2009
  - COA Summer Horizons Program 2009
- Initiator and Co-Chair
- Second Year Review Committee Spr. 2005-2012
- Member
- Search Committee, Healthcare Des. Coordinator AY2013-14
  - CAED Deans Search Committee 2016
  - CAED College Advisory Committee 2012-17
  - CAED Promotion and Tenure Committee 2012-2017
  - Graduate Curriculum and Research Committee 2010-2014
  - Model Shop Committee 2010
  - PhD Committee 2010-2012
  - Undergraduate Curriculum Committee 2009-2012
  - Committee A 2004-2005
  - College Council Spr. 2004-2005
  - LA Faculty Search Committee Spr. 2005
- Faculty Marshall
- OU commencement, Spr. 2008
  - COA Convocation Spr. 2008
- Speaker/Panelist
- Speaker, Living Architecture, AIAS, Kent State Spr 2016
  - Speaker, 'Working in Systems' LA Brown Bag Spr. 2008
  - Key Note Speaker, AIAS Design week 'Green Roofs' COA Spr. 2008
  - Panelist- 'Green Roofs', LA week, Spr. 2008