

SARAH JACK HINNERS

Center for Ecological Planning + Design Dept. of City + Metropolitan Planning
University of Utah
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EDUCATION

McGill University, Montreal, Canada. Geography and Environmental Studies, **BA** 1996
University of Colorado, Boulder. Ecology & Evolutionary Biology, **PhD** 2008
Dissertation title: “Pollinators in an urbanizing landscape: Effects of suburban sprawl on a grassland bee assemblage” Advisors: Dr. Carol A. Wessman, Dr. Carol A. Kearns

APPOINTMENTS

Director, Center for Ecological Planning + Design, U. of Utah 2017-
Associate Director, Global Change & Sustainability Center, U. of Utah 2017-
Acting Director, Ecological Planning Center, U. of Utah 2013-2017
Research Assistant Professor, City & Metropolitan Planning, U. of Utah 2012-
Senior Research Analyst, Metropolitan Research Center, U. of Utah 2011-2012
Instructor, Ecology & Evolutionary Biology, CU-Boulder 2008-2009
Research Associate, Ecology & Evolutionary Biology, CU-Boulder 2008
Graduate Assistant, University of Colorado Museum Entomology Collection 2005, 2008
Lead Graduate Teacher, Ecology & Evolutionary Biology, CU-Boulder 2006
Graduate Fellow in Science Education, NSF-GK-12 program 2003-2005
Teaching Assistant, Ecology & Evolutionary Biology, CU-Boulder 2000-2007
Facilitator, Biological Sciences Initiative, Seminar for Science Educators 2002
Research Internship in Ecological Agriculture, The Land Institute, Salina, Kansas 1997

PUBLICATIONS

Hinners, S.J. Designing cities for nature and people. In *Wild Wasatch*. Timber Press. (In press).
Pataki, D.E., C.G. Santana, **S.J. Hinners**, A.J. Felson, and J. Engebretson. Ethical considerations of urban ecological design and planning experiments. (in revision).
Follstad Shah, J.J., R. Bares, B.B. Bowen, G.J. Bowen, D.R. Bowling, D.P. Eiriksson, B. Fasoli, R.P. Fiorella, A.G. Hallar, **S.J. Hinners**, J.D. Horel, A.A. Jacques, L.R. Jamison, J.C. Lin, D.L. Mendoza, L.E. Mitchell, D.E. Pataki, S.M. Skiles, R.M. Smith, M.A. Wolf, and P.D. Brooks. The Wasatch Environmental Observatory: A mountain to urban research network in the semi-arid Western US. (in revision)
Tagore, P. and **S.J. Hinners**. The roles of civic engagement versus political leanings in resource conservation behavior: are conservatives willing to conserve? (in review)
Hinners, S.J., J.N. Rose, D. Choi, K. Park, E.C. Guffin and K.C. Mauldin. Geographically evaluating urban-wildland juxtapositions across 36 United States urban areas. (in revision).
Cobley, L.A.E., D.E. Pataki, F.R. Adler, and **S.J. Hinners**. Understanding the link between atmospheric pollutant concentrations and median household income using traffic density and *Convolvulus arvensis* chemistry in Salt Lake Valley, UT. (in review)

- Stoker, P., **S.J. Hinnners**, D. Jackson-Smith, M. Buchert, Z. Levine. (2019). Neighborhood effects on parcel level water use. *Sustainable Water Resources Management* 5(3): 1303-1313.
<https://doi.org/10.1007/s40899-019-00306-5>
- Hinnners, S.J.**, A.C. Nelson and M.P. Buchert. (2018). Streetcars and Economic Development: Do Streetcars Stimulate Economic Growth? *Transportation Research Record* 1-12.
<https://doi.org/10.1177/0361198118790096>
- Hinnners, S.J.** (2017). The cosmopolitan ecology of suburbia. In *Infinite Suburbia*, A. Berger and J. Kotkin, eds. Hudson, NY: Princeton Architectural Press.
- Hale, R.L., A. Armstrong, M.A. Baker, S. Bedingfield, D. Betts, C. Buahin, M. Buchert, T.Crowl, R.R. Dupont, J. Ehleringer, J. Endter-Wada, C. Flint, J. Grant, **S.J. Hinnners**, J.S.Horsburgh, D. Jackson-Smith, A.S. Jones, C. Licon, S.E. Null, A. Odame, D.E. Pataki, D. Rosenberg, M. Runburg, P. Stoker, C. Strong. (2015). iSAW: Integrating Structure, Actors, and Water to study socio-hydro-ecological systems. *Earth's Future* 3(3): 110-132.
- Hinnners, S.J.**, C.A. Kearns and C.A. Wessman. (2012). Roles of scale, matrix and native habitat in supporting a diverse suburban pollinator assemblage. *Ecological Applications* 22(7): 1923-1935.
- Hinnners, S.J.** and M. Hjelmroos-Koski. (2009). Receptiveness of foraging wild bees to exotic landscape elements. *American Midland Naturalist* 162(2): 253-265.
- Tillberg, C.V., M.D. Breed and **S.J. Hinnners**. 2007. *Field and Laboratory Exercises in Animal Behavior*. Elsevier: Amsterdam.

POPULAR MEDIA

- Contributing writer: The Nature of Cities, www.thenatureofcities.com see links to essays below:
<https://www.thenatureofcities.com/2019/09/16/smart-vs-green-technology-paradigms-battle-it-out-for-the-future-city/>
<https://www.thenatureofcities.com/2018/06/23/low-hanging-fruit-complex-systems-maybe-better-aim-higher-fruit/>
<https://www.thenatureofcities.com/2017/08/16/imagine-ecological-certification-urban-design-certifications-key-elements/>
<https://www.thenatureofcities.com/2017/01/24/terms-creating-better-cities-ecologists-landscape-architects-lot-common-sometimes-talk-past-perspective-one-critical-idea-profession/>

TECHNICAL PAPERS AND REPORTS

- Hinnners, S.J. and M.A. Larice. (2016). Assessing the Impacts of Streetcars on Economics, Equity, and Quality of Life. Submitted to the U.S. Department of Housing and Urban Development.
<http://mrc.cap.utah.edu/wp-content/uploads/sites/8/2015/12/Assessing-the-Impacts-of-Streetcars-on-Economics-Equity-and-Quality-of-Life-HUD-Sustainable-Communities-Grant-Deliverable-August-2016.pdf> (awaiting permanent url)

- Hinnners, S.J., J.N. Rose, D. Choi, K. Park, E.C. Guffin and K.C. Mauldin. (2019). Mapping and measuring the urban wildland juxtaposition. (awaiting permanent url).

GRANTS

- | | |
|---|------|
| Utah Division of Water Quality NonPoint Source Program, \$55,000 | 2019 |
| “Capture and treatment of street runoff at the Williams & Myriad Buildings, U. of Utah Research Park, using curb cuts and bioretention” | |

Global Change & Sustainability Center seed grant, U. of Utah, \$9,072	2019
“Spatial and temporal variability in the rhizome microbiome in stormwater green infrastructure for arid environments” (R. Smith, PI with S. Hinnners, R. Goel coPIs)	
Utah Division of Water Quality LID Demonstration Project Program, \$341,000	2018
“Stormwater Management Testing and Demonstration at the University of Utah: the Landscape Lab” (S. Hinnners, PI)	
Utah Division of Water Quality NonPoint Source Program grant, \$25,000	2017
“The Landscape Lab at the Williams Building, Phase II” (S. Hinnners, PI)	
College of Architecture + Planning, U. of Utah Scholarship Incentive Seed Grant, \$10,000	2017
"Mapping and measuring the urban-wildland interface: Laying the groundwork for quantitative studies of human-nature relationships in urban areas” with K. Terzano, J. Rose	
NITC Education Grant, \$94,880	2016
“Collaborative Scenario Planning: A Tool for Facilitating Sustainable Transportation Decisions in Gateway Regions?” (D. Rumore, PI, with D. Chandrasekhar, S. Hinnners, co-PIs)	
College of Architecture + Planning, U. of Utah Scholarship Incentive Seed Grant, \$10,000	2015
“Addressing Wicked Problems from the Inside Out: Stakeholder Assessment for Collaborative Resilience Planning in the Western Zion Corridor” with D.Rumore, D. Chandrasekhar	
EPA Water Scarcity and Drought, \$1,200,000	2015
“Prediction of Nonlinear Climate Variations Impacts on Eutrophication and Ecosystem Processes and Evaluation of Adaptation Measures in Urban and Urbanizing Watersheds. (M. Barber, PI, with S. Burian, R. Goel, B. Clark and S. Hinnners, co-PIs)	
HUD Sustainable Communities Transformation Initiative, \$138,000.	2013
“Assessing the impacts of streetcars on economics, equity, and quality of urban life” (S. Hinnners, PI, with M. Larice and A.C. Nelson, co-PIs)	
EPA Wetland Development Grant, \$103,000 (sub to Mid-America Regional Council)	2012
“Embedding ecological value in sustainable land-use planning”	
NASA-MSU Professional Enhancement Award, US-IALE Annual Symposium \$500	2008
PhD Research Fellowship, Dept. of Ecology & Evolutionary Biology, CU-Boulder	2006
Boulder County Parks and Open Space Small Grant \$6000	2004
Ecology and Evolutionary Biology Departmental Research Grant \$2000	2003
UGGS (United Government of Graduate Students) Travel Grant – Ecological Society of America 88 th Annual Meeting \$800	2003
Boulder Open Space and Mountain Parks Small Grant \$3000	2002
Edna Bailey Sussman Fund Award \$1000	2001

PROFESSIONAL DEVELOPMENT

U. of Utah Leadership Development Program (completed) 2017-18

AWARDS

APA Utah Outstanding Achievement Award for Regional Planning (as part of the Wasatch Choice for 2040 Partnership.) 2014

Sigma Xi Graduate Research Award 2008

Graduate Teacher Certification, CU-Boulder 2008

Best Should Teach Award, Graduate Teacher Program, CU-Boulder 2006

Teaching Excellence Award , Ecology and Evolutionary Biology, CU-Boulder	2004
Teaching Assistant Award : United Gov't of Graduate Students, CU-Boulder	2004

PRESENTATIONS and INVITED TALKS

“Carbon and the built environment: becoming net negative?” AIA Utah webinar, December 2020.

“Campus as a Living Lab: embedded research for sustainability innovation in the built environment” Global Change and Sustainability Center (GCSC) seminar series, U. of Utah, November 2020.

“The potential for carbon capture in the built environment” Architectural Nexus brownbag lunch series, June 2020.

“For the love of carbon: imagining cities that function like forests” EPiC Think, Center for Ecological Planning & Design, U. of Utah, February 2020.

“People, Place, Design: Social and ecological perspectives on stormwater green infrastructure for urban landscapes in the semi-arid west” Environmental Engineering seminar series, University of Nevada Reno, February 2020.

“People, Place, Design: Can we achieve thriving, life-sustaining urban landscapes in the hot, dry west?” Natural History Museum of Utah Science Salon, January 2020.

“Ecology and Buildings” ASHRAE Student Chapter presentation, U. of Utah, November 2019.

“Me, Us, Them – Convening planners, ecologists and designers to build long-term collaborations”, with Diane Pataki and Katie Coyne. SEED Session at The Nature of Cities Summit, Paris, June 2019.

“The Landscape Lab – Research Program Development” with Laura Bandara, to Salt Lake City Sustainable Infrastructure Committee, January 2019.

“Foundations of a Green Infrastructure Research Network Along Red Butte Creek and Beyond” (poster) with Diane Pataki and Rose Smith, at the Red Butte Creek Symposium, Salt Lake City, December 2018.

“Situation Assessment of Water Quality Issues in the Jordan River” with Brett Clark and Debolina Banerjee, Salt Lake County Watershed Symposium, November 2018.

“Portals: Investigations in Pollinators, Process, Planning, People & Place” in the Investigating Careers in the Environment seminar series, University of Colorado Boulder, October 2018.

“Rediscovery and Revitalization of Red Butte Creek Through Integrated Processes of Science, Planning, and Design” at the International Symposium on Society and Resource Management, Snowbird, Utah, June 2018.

“Streetcars and Economic Development: Do Streetcars Stimulate Economic Growth?” with Arthur C. Nelson at Transportation Research Board Annual Meeting, Washington, DC, January 2018.

“A Process Model for Ecological Planning and Design” at the College of Architecture + Planning Research Symposium, University of Utah, October 2017.

“Pollinators as a Portal to Ecological Planning” at SACNAS (Society for the Advancement of Chicanos/Hispanics and Native Americans in Science) annual conference, Salt Lake City, Oct. 2017.

“Integrating ‘Ways of Knowing’ and ‘Ways of Doing’ to Develop an Ecological Planning Approach to Urban Wildlife” at The International Urban Wildlife Conference, San Diego, June 4-7 2017.

“Landscape Lab: Merging Science and Design for a Landscape of Learning”, with Laura Bandara and Brenda Bowen, at the Salt Lake County Watershed Symposium, November 2016

“Public Support for Open Space Planning in the US” at Associated Collegiate Schools of Planning annual conference, Portland, OR, November 2016

“City Comforts: the Livable Urban Village and the Salt Lake Valley” Panel Presentation, US Green Building Council Utah Sustainability Summit, October 2016

“Bioretention in Arid Climates”, with Christine Pomeroy, at American Public Works Association, Utah chapter symposium, October 2016

“Models in Scenario Planning” at the Dialogue on Collaboration forum, UofU Environmental Dispute Resolution Program, June 2016

“The Nature of 2050” workshop at the Wasatch Choice for 2050 Consortium and Active Transportation and Public Health Summit, June 2016.

“Landscape Lab: Merging Science and Design for a Landscape of Learning” at the Spring Runoff Conference, Utah State University, April 2016

“Creating Faculty-Driven Catalysts for Sustainable Collaborations”, Feb 26, 2016 a2RU webinar

“Uncertainty in Future Water Quality and Quantity in the Jordan River” at Salt Lake County Watershed Symposium, November 2015.

“Scenario Planning with ET+” Rocky Mountain Land Use Institute Annual Symposium, March 2015

“Investing/Divesting for a Sustainable Future” UofU Senate/Hinckley Panel on Divestment, April 2015

“Weaving the Green and Blue” at Mayor’s Symposium: The Green-Blue City, Salt Lake City, April 2015

“Water Flows Through the City” at Salt Lake County Watershed Symposium, November 2014.

“Ecological Planning for Human Habitat on a Crowded Planet” at the Research Administration NAKAMA series (invited), University of Utah, July 2014.

“Science and Place: Finding oneself in an interdisciplinary landscape” at Graduate and Advanced Ladies in Science (GALS) seminar (invited), University of Utah, March 2014.

“Bringing the Mountains to the Valley: the role of nature in our city” with Diane Pataki, at the Mayor’s Symposium (invited), Salt Lake City, February 2014.

“Ecological Planning for Human Habitat on a Crowded Planet” in the Global Change and Sustainability Center seminar series (invited), University of Utah, January 2014.

“Envision Tomorrow Plus” at Wasatch Choice for 2040 trainings in Provo, Ogden, Farmington and Salt Lake City, Utah, November and December 2013.

“Envision Tomorrow Plus: Scenario Planning for the 21st Century” at the American Society of Public Administrators luncheon (invited), December 2012

“Envision Tomorrow Plus” at Utah League of Cities and Towns annual conference (invited), Sept. 2012

“Incorporating Ecosystem Services into an Urban Scenario Planning Package”, at Ecological Society of America 97th Annual Meeting, Portland, OR, August 2012

“Envision Tomorrow Plus” at the Wasatch Choice for 2040 regional consortium meeting (invited), 2012

“The ‘Burbs and the Bees: Wild Pollinators and Suburban Sprawl”, Biology Seminar Series, Utah State University (invited), 2010

“Pollinators in Denver’s Suburban Landscape” at *Café Botanique*, Denver Botanical Garden (invited) 2008

“Scale, habitat and fragmentation effects on a pollinator assemblage in an urbanizing landscape”, International Association of Landscape Ecology Annual Symposium, Madison, Wisconsin, 2008

“The ‘burbs and the bees: Pollinators and suburban sprawl; University of Colorado at Boulder, Ecology & Evolutionary Biology Colloquium series (PhD Exit talk), 2008

Guild of Rocky Mountain Ecologists and Evolutionary Biologists Annual Meeting 2005

Ecological Society of America 90th Annual Meeting, Montreal, Canada 2005

CU-Boulder, Ecology & Evolutionary Biology Brown Bag Lunch Series 2003

Front Range Student Ecology Symposium, Colorado State University 2002

Guest Lecturer: *Animal Behavior, Endangered Species, Evolutionary Biology, Landscape Ecology, Urban and Regional Modeling, Game Changers, Green Communities, Graduate Technical Writing Seminar, Architectural Research, Environmental Studies Capstone, Urban Design Studio, Business First Ascent Scholars Program, Global Changes & Society, Energy Systems Analysis, Site Planning, Design Contexts, Intro to the Environment & Sustainability.*

TEACHING

UNIVERSITY OF UTAH

CMP6280 *Graduate Workshop-Agri-conservation development in Layton UT* – fall 2020
CMP3200 *Ecology of Human Settlements* (prev. *Principles of Ecology for Planners*)- annually since 2014
CMP4460/6660 *Green Infrastructure* - fall semesters 2015, 2017, 2018, 2019, spring 2021
SUST6800 *Global Change and Sustainability Seminar* - 2015-2017
CMP 6371 *Complexity and Systems Thinking* - fall 2016, spring 2020
CMP7401 *Metropolitan Research Design* – spring 2019

UNIVERSITY OF COLORADO BOULDER

Instructor: *General Biology II* – 2008, 2009

Teaching Assistant: *General Biology I; General Biology II ; Environmental Biology; Animal Behavior; Evolutionary Biology* – 2000-2007

ACADEMIC, PROFESSIONAL, and COMMUNITY SERVICE

CA+P ad hoc committee on operations under Yellow restrictions	2020
Jordan River TMDL Technical Advisory Committee (Utah Div. of Water Quality)	2020-
Jordan River Blueprint Update consultant team (pro bono)	2020
Undergraduate Program Director, City & Metropolitan Planning, U. of Utah	2019-
Juror, <i>On The River's Edge</i> Ideas Competition, Salt Lake Co. & Jordan River Found.	2019
University Interdisciplinary Teaching Program Committee, U. of Utah	2019-
Research Park Master Plan Advisory Steering Committee, U. of Utah	2019-2021
Search Committee Chair (Asst. Prof. Lect.), City & Metropolitan Planning, U. of Utah	2019
Search Committee (Asst. Prof.), City & Metropolitan Planning, U. of Utah	2019
Content Expertise, <i>Nature All Around Us</i> exhibit, Utah Museum of Natural History	2018-2019
Red Butte Creek Committee, U of Utah	2018-
Organizer, Red Butte Creek Symposium	2018
Organizer, EPiC Collaborative	2018-
Executive committee/jury, <i>Stories of the Nature of Cities</i> global flash fiction contest	2018
Resulting book: <i>A Flash of Silver Green</i> . 2019. Publication Studio Guelph.	
Campus Water Committee, U. of Utah	2017-
Member, Point of the Mountain Small Advisory Group on Recreation, Environment and Entertainment, State of Utah	2017-2018
PhD Program Committee, City & Metropolitan Planning, U. of Utah	2016-2018
Chair, Red Butte Creek/Williams Building Re-landscaping Design Team	2015-2017
University Research Committee, Office of the VPR, U. of Utah	2015-2018
Academic Senate, CA+P career-line representative, U. of Utah	2015-2018
Landscape Master Plan Steering Committee, U. of Utah	2015-2017
Organizer, Mayor's Symposium: The Green-Blue City	2015
Red Butte Creek Strategic Vision Steering Committee, U. of Utah	2015
Member, Governor's Task Force on Agriculture, Recreation and Natural Lands, Your Utah Your Future initiative	2014-2015
Chair, Steering Committee and Founder, NatureWorks Alliance	2014-2018
Executive Committee, Global Change and Sustainability Center, U. of Utah	2013-2015, 2017-
Ecological Planning Curriculum Committee, City & Metro. Planning, U. of Utah	2013-
Curriculum Committee (undergraduate), City & Metropolitan Planning, U. of Utah	2012-
Ecological Planning Center, U. of Utah	2012-

Seminar Committee, Global Change and Sustainability Center, U. of Utah	2012-2013
	2015-2016
Ecology Search Committee, Ecology & Evolutionary Biology, CU-Boulder	2004-2005
Chair, Spring Symposium Committee, Ecol. & Evol. Biology, CU-Boulder	2004
Colloquium Committee, Ecology and Evolutionary Biology, CU-Boulder	2001-2003
Society Memberships: American Planning Association, Association of Collegiate Schools of Planning, Ecological Society of America	
Journals Refereed: <i>American Journal of Botany</i> , <i>Animal Behaviour</i> , <i>Annals of Botany</i> , <i>Ecological Applications</i> , <i>Ecological Restoration</i> , <i>Grana</i> , <i>Integrative Zoology</i> , <i>Journal of the American Planning Association</i> , <i>International Journal of Plant Sciences</i> , <i>Journal of Applied Ecology</i> , <i>Journal of Water Resources Planning and Management</i> , <i>Oecologia</i> .	