

Biographical Sketch – G. Darrel Jenerette

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Professional Preparation

B.S. Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, VA. Biology. 1995

Ph.D. Department of Plant Biology, Arizona State University, Tempe, AZ. Plant Biology. 2004

Postdoctoral Researcher. Carbon Management and Sequestration Center, School of Natural Resources, The Ohio State University, Columbus, OH. 2004 - 2005

Postdoctoral Fellow. Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ. 2005 - 2007

Appointments

Director, Center for Conservation Biology and Professor. Department of Botany and Plant Sciences. University of California Riverside 2017-Present

Associate Professor. Department of Botany and Plant Sciences. University of California Riverside 2013-2017

Assistant Professor. Department of Botany and Plant Sciences. University of California Riverside 2008-2013

Awards

Outstanding Paper in Landscape Ecology, United States Chapter of the International Association for Landscape Ecology 2017

Visiting Fellowship for Young International Scientists, Chinese Academy of Sciences. 2011-2012

Early Career Fellowship, Consortium of Universities for the Advancement of Hydrologic Science (CUAHSI) 2007

Biological Informatics Postdoctoral Fellowship, National Science Foundation. 2005-2007

Graduate Fellowship, Urban Ecology Integrative Graduate Education and Research Traineeship (IGERT), National Science Foundation. 2001-2004

Recent Publications From Lab (lab members in bold)

GD Jenerette. In Press. Ecological contributions to human health in cities. Landscape Ecology

Park IW, J Hooper, JM Flegal and **GD Jenerette**. 2018. Drivers of herbaceous cover throughout chaparral shrublands: Insights from a remote sensing method. Diversity and Distributions 24:497-508

Liang LL, RG Anderson, **SA Shiflett**, and **GD Jenerette**. 2017. Urban outdoor water use and response to drought assessed through mobile energy balance and vegetation greenness measurements. Environmental Research Letters 084007

Fertitta-Roberts C, S Spatari, DA Grantz, and **GD Jenerette**. 2017. Tradeoffs across productivity, carbon intensity, and pollutant loads from second generation sorghum bioenergy. Global Change Biology Bioenergy 9:1764-1779

Crum SM and **GD Jenerette**. 2017. Microclimate variation among urban land covers: The importance of vertical and horizontal structure in air and land surface temperature relationships. Journal of Applied Meteorology and Climatology 56:2531-2543

Eberwein JE, W Shen, **GD Jenerette**. 2017. Michaelis-Menten kinetics and soil respiration feedbacks to nitrogen deposition and climate change in subtropical forests. Scientific Reports 7:1752

Shiflett S, **LL Liang**, **S Crum**, **GL Feyisa**, J Wang, and **GD Jenerette**. 2017. Variation in the urban vegetation, air temperature, surface temperature nexus. Science of the Total Environment 579:495-505

Additional Significant Publications

- Jenerette GD**, SL Harlan, **A Buyantuev**, WL Stefanov, J Declet-Barreto, BL Ruddell, S Myint, S Kaplan, and X Li. 2016. Micro scale urban surface temperatures are related to land cover features and heat related health impacts in Phoenix, AZ USA. *Landscape Ecology* 31:745-760
- Jenerette GD**, **LW Clarke**, ML Avolio, DE Pataki, TW Gillespie, S Pincetl, J McFadden, D Nowak, L Hutyra, M McHale, and M Alonzo. 2016. Climate tolerances and trait choices shape continental patterns of urban tree biodiversity. *Global Ecology and Biogeography* 25:1367-1376
- Oikawa PY**, C Ge, J Wang, **JR Eberwein**, **LL Liang**, **L Allsman**, DA Grantz, and **GD Jenerette**. 2015. Unusually high soil nitrogen oxide emissions influence air quality in high temperature agricultural region. *Nature Communications* 6:8753 DOI: 10.1038/NCOMMS9753
- Jenerette GD**, GA Barron-Gafford, AJ Guswa, JJ McDonnell, and JC Villegas. 2012. Organization of complexity in water limited ecohydrology. *Ecohydrology* 5:184-199
- Jenerette GD** and **A Chatterjee**. 2012. Soil metabolic pulses: water, substrate, and biological regulation. *Ecology* 93:959-966
- Jenerette GD** and L Larsen. 2006. A global perspective on changing sustainable urban water supplies. *Global and Planetary Change* 50:202-211.

Synergistic Activities

Provided two invited briefings to the U.S. Congress and Senate on ecosystem responses and feedback to global changes sponsored by the Ecological Society of America and the Association of Ecosystem Research Centers

Leader of the Urban Terrestrial Observation System Sampling Designs for NEON Sites Working Group, 2013-2015

Member of the Editorial Boards for *Landscape Ecology* (2008-Present), *Frontiers in Ecology and Evolution* (2015-Present), *Landscape and Urban Planning* (2016-Present)

Workshop organizer: Beyond the Wildland Urban Interface, Riverside, CA 2018; Accelerating Research and Discovery with EcoInformatics: Cyberinfrastructure, Instrumentation, and Theory, Oracle, AZ 2008

Workshop Organizer for Collaborative Interdisciplinary Research for Graduate Students, sponsored by the LTER network. Blue River, OR. 2005

Graduate and Postdoctoral Advisors

Jianguo Wu (Arizona State University); Rattan Lal (The Ohio State University); Travis Huxman (University of California Irvine)

Advising

Postdoctoral Advising (12 total)

Julie Ripplinger 2016-2018; Jingli Yan 2016-2018; Isaac Park 2015-2017; Amin Tayyebi 2014-2016; Sheri Shiflett 2014-2015; Gudina Feyisa 2013-2014; Liyin Liang 2013-2015; Jongyoun Kim 2013; Alex Buyantuyev 2013; Patricia Oikawa 2011-2013; Karrin Alstad 2009-2010; Amitava Chatterjee 2008-2010

Ph.D. Student Advising

Completed (4 total): Cara Fertitta 2017 (GAANN Fellow); Steven Crum 2017; Jennifer Eberwein 2016 (EPA STAR Fellow); Lorraine Weller (NSF EAPSI Fellow) 2014

In Progress (6 total): Stuart Schwab 2018; Stephanie Piper 2017; Asma Ayyad 2017 (Eugene Cota-Robles Fellow); Dion Kucera 2016; Peter Ibsen 2015 (GAANN Fellow); Holly Andrews 2015 (NASA FIELDS Fellow, NSF EAPSI Fellow)