G. Darrel Jenerette
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Research Interests
Landscape ecology • Ecosystem ecology • Ecohydrology • Drylands • Sustainability

Academic Appointments
Professor 2017 - present
Associate Professor 2013 – 2017
Assistant Professor 2008 – 2013
Department of Botany and Plant Sciences, University of California Riverside

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

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

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

B.S. Virginia Polytechnic Institute and State University, Blacksburg, VA. 1995

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

Tony Gonzales Excellence in GIS Scholarship. Arizona Geographic Information Council. 2004

Outstanding Poster. Central Arizona Phoenix Long Term Ecological Research Poster Symposium. 2000

Publications (*Lab members in **bold**)* ISI H Index = 24
Total Refereed Publications 97; Review 6; Technical 77; Other 14

Review and Synthesis Articles

(6) Groffman PM, ML Cadenasso, J Cavender-Bares, DL Childers, NB Grimm, JM Grove, SE Hobbie, LY Hutyra, **GD Jenerette**, T McPhearson, DE Pataki, STA Pickett, RV Pouyat, E Rose-Marshall, BL Ruddell. 2017. Moving towards a new urban systems science. *Ecosystems* 20:38-43

(5) **Jenerette GD**, GA Barron-Gafford, AJ Guswa, JJ McDonnell, and JC Villegas. 2012. Organization of complexity in water limited ecohydrology. *Ecohydrology* 5:184-199

(4) **Jenerette GD** and W Shen. 2012. Experimental landscape ecology. *Landscape Ecology* 27:1237-1248

(3) Pataki DE, CG Boone, TS Hogue, **GD Jenerette**, J McFadden, and S Pincetl. 2011. Socio-ecohydrology and the urban water challenge. *Ecohydrology* 4:341-347

(2) **Jenerette GD** and R Lal. 2005. Hydrologic sources of carbon cycling uncertainty throughout the terrestrial-aquatic continuum. *Global Change Biology* 11:1873-1882

(1) Ptacnik R, **GD Jenerette**, AM Verschoor, AF Huberty, AG Solimini, and JD Brookes. 2005. Applications of ecological stoichiometry for sustainable acquisition of ecosystem services. *Oikos* 109:52-62

Technical Journal Articles

2017

(77) Chen J, G Xiao, Y Kuzyakov, **GD Jenerette**, Y Ma, W Liu, Z Wang, W Shen. *In Press*. Soil nitrogen transformation responses to seasonal precipitation changes are regulated by changes in functional microbial abundance in a subtropical forest. *Biogeosciences*

(76) **Eberwein JE**, W Shen, **GD Jenerette**. *In Press*. Michaelis-Menten kinetics and soil respiration feedbacks to nitrogen deposition and climate change in subtropical forests. *Scientific Reports*

(75) Gillespie TW, J de Goede, L Aguilar, **GD Jenerette**, GA Fricker, ML Avolio, S Pincetl, T Johnston, **LW Clarke**, DE Pataki. 2017. Predicting tree species richness in urban forests. *Urban Ecosystems* In Press

(74) Oikawa PY, **GD Jenerette**, SH Knox, C Sturtevant, J Ferfaillie, I Dronova, C Poindexter, E Eichelman, DD Baldocchi. 2017. Evaluation of a hierarchy of models reveals importance of substrate limitation for predicting carbon dioxide and methane exchange in restored wetlands. *Journal of Geophysical Research - Biogeosciences*

(73) **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

(72) Lu X, **LL Liang**, L Wang, **GD Jenerette**, MF McCabe and DA Grantz. 2017. Partitioning of evapotranspiration using a stable water isotope technique in an arid and high temperature agricultural production system. *Agricultural Water Management* 179:103-109

2016

(71) **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

(70) Declet-Barreto J, K Knowlton, **GD Jenerette**, and A Buyantuyev. 2016. Estimation of the effects of vegetation on regulating the surface urban heat island of Cleveland, OH. *Weather, Climate, and Society* 8:507-524

(69) **Crum S**, **LL Liang**, **GD Jenerette**. *2016*. Landscape position influences soil respiration variability and sensitivity to physiological drivers in mixed-use lands of southern California, USA. *Journal of Geophysical Research – Biogeosciences* 121:2530-2543 doi:10.1002/2016JG003469

(68) Shen W, **GD Jenerette**, RL Scott, and D Hui. 2016. Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers.

Biogeosciences 13:425-439

(67) **Tayyebi A** and **GD Jenerette**. 2016. Increases in the climate change adaption effectiveness and availability of vegetation across a coastal to desert climate gradient in metropolitan Los Angeles, CA, USA. *Science of the Total Environment* 548-549:60-71

(66) **Feyisa GL**, H Meilby, **GD Jenerette**, and S Pauliet. 2016. Separability-optimized indices for accurate land cover mapping and surface heat assessment: Environmental consequences of rapid urbanization in Addis Ababa, Ethiopia. *Remote Sensing of the Environment* 175:14-31

(65) **Liang LL**, DA Grantz, and **GD Jenerette**. 2016. Multivariate regulation of CO_2 and N_2O pulse emissions from agricultural soils. *Global Change Biology* 22:1286-1298

(64) **Jenerette GD**, SL Harlan, **A Buyantuev**, WL Stefanov, J Declet-Barreto, BL Ruddell, SW 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

2015

(63) **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

(62) **Chatterjee A** and **GD Jenerette**. 2015. Variation in soil organic matter accumulation and metabolic activity along an elevation gradient in the Santa Rosa Mountains of Southern California, USA. *Journal of Arid Land* 7:814-819

(61) Xie JB, GQ Xu, **GD Jenerette**, YF Bai, ZY Wang, and Y Li. 2015. Apparent plasticity in functional traits determining competitive ability and spatial distribution: a case from the desert. *Scientific Reports* 5:12174

(60) Avolio ML, DE Pataki, TW Gillespie, **Jenerette GD**, HR McCarthy, S Pincetl, and **LW Clarke**. 2015. Tree diversity in southern California's urban forest: the interacting roles of social and environmental variables. *Frontiers in Ecology and Evolution* http://dx.doi.org/10.3389/fevo.2015.00073

(59) **Eberwein JR**, **PY Oikawa**, **LA Allsman**, and **GD Jenerette**. 2015. Carbon availability regulates soil respiration response to nitrogen and temperature. *Soil Biology and Biochemistry* 88:158-164

(58) Bytnerowicz A, R Johnson, L Zhang, **GD Jenerette**, S Schilling, M Fenn, and I Gonzalez-Fernandez. 2015. An empirical inferential method of estimating nitrogen deposition to Mediterranean-type ecosystems: the San Bernardino Mountains case study. *Environmental Pollution* 203:69-88

(57) **Liang LL**, **JR Eberwein**, **L Allsman**, DA Grantz, and **GD Jenerette**. 2015. Regulation of CO_2 and N_2O fluxes by coupled carbon and nitrogen availability. *Environmental Research Letters* 034008

(56) Zhichun L, **GD Jenerette**, SX Zhan, WH Li, SX Zheng, and YF Bai. 2015. Testing the scaling effects and mechanisms of N-induced biodiversity loss: Evidence from a decade-long grassland experiment. *Journal of Ecology* 103:750-760

(55) Rossi RJ, DJ Bain, **GD Jenerette, LW Clarke**, and K Wilson. 2015. Responses of roadside soil cation pools to vehicular emission deposition in southern California. *Biogeochemistry* 131-44

(54) Shaffer SR, WTL Chow, M Georgescu, P Hyde, **GD Jenerette**, A Mahalov, M Moustaoui, and BL Ruddell. 2015. Multi-scale modeling and evaluation of urban surface energy balance

in the Phoenix metropolitan region. *Journal of Applied Meteorology and Climatology* 54:322-338

(53) Avolio ML, DE Pataki, S Pincetl, T Gillespie, **GD Jenerette**, and HR McCarthy. 2015. Understanding preferences for tree attributes: the relative effects of socio-economic and local environmental factors. *Urban Ecosystems* 18:73-86

(52) **Clarke LW** and **GD Jenerette**. 2015. Biodiversity and direct ecosystem service regulation in the community gardens of Los Angeles, CA. *Landscape Ecology* 30:367-653

(51) Riordan EC, TW Gillespie, L Pitcher, S Pincetl, **GD Jenerette**, and DE Pataki. 2015. Threats of future climate change and land use to vulnerable tree species native to Southern California. *Environmental Conservation* 2:127-138

(50) **Oikawa PY**, **GD Jenerette**, and DA Grantz. 2015. Offsetting high water demands with high productivity: Sorghum as a biofuel crop in a high irradiance arid ecosystem. *Global Change Biology Bioenergy* 7:974-983

(49) **Clarke LW**, **GD Jenerette**, and DJ Bain. 2015. Urban legacies and soil management affect the concentration and speciation of soil metals in Los Angeles community garden soils. *Environmental Pollution* 197:1-12

2014

(48) Chow WTL, TJ Volo, ER Vivoni, **GD Jenerette**, and BL Ruddell. 2014. Seasonal dynamics of energy balance in Phoenix, AZ. *International Journal of Climatology* 34:3863-3880

(47) Barron-Gafford GA, JM Cable, LP Bentley, RL Scott, TE Huxman, **GD Jenerette**, and K Ogle. 2014. Quantifying the time scales over which exogenous and endogenous conditions affect soil respiration. *New Phytologist* 202:442-454

(46) **Oikawa PY**, DA Grantz, **A Chatterjee**, **JE Eberwein**, **LA Allsman**, and **GD Jenerette**. 2014. Unifying soil respiration pulses, inhibition, and temperature hysteresis through dynamics of labile carbon and soil O_2. *Journal of Geophysical Research Biogeosciences* 119:521-536

(45) **Clarke LW**, L Li, **GD Jenerette**, and Z Yu. 2014. Plant biodiversity and ecosystem service production in home gardens across the Beijing Municipality of China. *Urban Ecosystems* 17:741-760

(44) Scott RL, TE Huxman, GA Barron-Gafford, **GD Jenerette**, JM Cable, and EP Hamerlynck. 2014. When vegetation alters ecosystem water availability. *Global Change Biology* 20:2198-2210

(43) Potts DL GD Barron-Gafford, and **GD Jenerette**. 2014. Metabolic acceleration quantifies biological systems' ability to upregulate metabolism in response to episodic resource availability. *Journal of Arid Environments* 104:9-16

2013

(42) Barron-Gafford GA, RL Scott, **GD Jenerette**, EP Hamerlynck, and TE Huxman. 2013. Landscape and environmental controls over leaf and ecosystem carbon dioxide fluxes under woody plant expansion. *Journal of Ecology* 101:1471-1483

(41) **Jenerette GD**, **G Miller**, **A Buyantuev**, S Pincetl, DE Pataki, and TW Gillespie. 2013. Urban vegetation and income segregation in drylands: A synthesis of seven metropolitan regions in the southwestern United States. *Environmental Research Letters* 8 044001

(40) Pincetl S, S Prabhu, T Gillespie, and **GD Jenerette**, DE Pataki. 2013. Evolution of tree nursery offerings. *Landscape and Urban Planning* 118:10-17

(39) Pataki DE, HR McCarthy, T Gillespie, **GD Jenerette**, and S Pincetl. 2013. A trait based ecology of the Los Angeles urban forest. *Ecosphere* 4:72 doi:10.1890/ES13-00017.1

(38) **Clarke LW**, **GD Jenerette**, and A Davalia. 2013. The luxury of vegetation and the legacy of tree biodiversity in Los Angeles, CA. *Landscape and Urban Planning* 116:48-59

(37) Shen W, H Ren, **GD Jenerette**, D Hui, and H Ren. 2013. Atmospheric deposition and canopy exchange of anions and cations in two plantation forests under acid rain influence. *Atmospheric Environment* 64:242-250

2012

(36) **Jenerette GD** and **A Chatterjee**. 2012. Soil metabolic pulses: water, substrate, and biological regulation. *Ecology* 93:959-966

(35) Liu R, LP Pan, **GD Jenerette,** QX Wang, E Cieraad, and Y Li. 2012. Variation in annual precipitation alters structure, water use strategy, and efficiency of a desert halophyte community. *Agricultural and Forest Meteorology* 162-163:127-135

(34) Ogle K, RW Lucas, LP Bentley, JM Cable, GA Barron-Gafford, A Griffith, D Ignace, **GD Jenerette**, A Tyler, TE Huxman, ME Loik, SD Smith, and DT Tissue. 2012. Differential daytime and nighttime stomatal behavior in plants from North American deserts. *New Phytologist* 194:464-476

(33) Barron-Gafford GA, RL Scott, **GD Jenerette**, EP Hamerlynck, and TE Huxman. 2012. Temperature and precipitation controls over leaf- and ecosystem-level CO_2 flux along a woody plant encroachment gradient. *Global Change Biology* 18:1389-1400

(32) **Richardson J**, **A Chatterjee**, and **GD Jenerette**. 2012. Optimum temperatures for soil respiration along a semi-arid elevation gradient in southern California. *Soil Biology and Biochemistry* 46:89-95

2011 and Earlier

(31) McCarthy HR, DE Pataki, and **GD Jenerette**. 2011. Plant water use efficiency as a metric of urban ecosystem services. *Ecological Applications* 21:3115-3127

(30) **Chatterjee A** and **GD Jenerette**. 2011. Spatial variability of soil metabolic rate along a dryland elevation gradient. *Landscape Ecology* 26:1111-1123

(29) **Jenerette GD**, SL Harlan, W Stefanov, and C Martin. 2011. Ecosystem services and urban heat riskscape moderation: Water, green spaces, and social inequality in Phoenix, USA. *Ecological Applications* 21:2637-2651

(28) Shen W, YB Lin, **GD Jenerette**, and J Wu. 2011. Blowing litter across a landscape: effects on ecosystem nutrient flux and implications for landscape management. *Landscape Ecology* 26:629-644

(27) **Chatterjee A**, **GD Jenerette**. 2011. Changes in soil respiration Q_{10} during drying-rewetting along a semi-arid elevation gradient. *Geoderma* 163:171-177

(26) Barron-Gafford G, RL Scott, **GD Jenerette**, and TE Huxman. 2011. The relative controls of temperature, soil moisture, and plant functional group on soil respiration at diel, seasonal, and annual scales. *Journal of Geophysical Research Biogeosciences* 116, G01023 doi:10.1029/2010JG001442

(25) Wu J, **GD Jenerette**, A Buyantuyev, and CL Redman. 2011. Quantifying spatiotemporal patterns of urbanization: The case of the two fastest growing metropolitan regions in the United States. *Ecological Complexity* 8:1-8

(24) **Jenerette GD** and D Potere. 2010. Global analysis and simulation of land-use change associated with urbanization. *Landscape Ecology* 25:657-670

(23) Ivanov VY, S Fatichi, **GD Jenerette**, JF Espeleta, P Troch, and TE Huxman. 2010. Hysteresis of soil moisture spatial heterogeneity and a homogenizing effect of vegetation. *Water Resources Research* 46:W09521, doi:10.1029/2009WR008611

(22) Hou Y, Z Luo, **GD Jenerette**, Y Qiao, and K Wang. 2010. Effects of elevated CO_2 and temperature on growth and morphology of fir (Abies faxoniana) and native herbs in tree-line ecotone: an experimental approach. *Polish Journal of Ecology* 58:311-322

(21) **Jenerette GD** and RL Scott, and AR Huete. 2010. Functional differences between summer and winter season rain assessed with MODIS derived phenology in a semiarid region. *Journal of Vegetation Science* 21:16-30

(20) Scott RL, EP Hamerlynck, **GD Jenerette**, MS Moran, GA Barron-Gafford. 2010. Carbon dioxide exchange in a semidesert grassland responding to drought-induced vegetation change. *Journal of Geophysical Research Biogeosciences* 115, G03026, doi: 10.1029/2010JG001348

(19) Chen S, G Lin, J Huang, and **GD Jenerette**. 2009. Dependence of carbon sequestration on the differential responses of ecosystem photosynthesis and respiration to rain pulses in a semiarid steppe. *Global Change Biology* 15:2450-2461

(18) **Jenerette GD**, RL Scott, GA Barron-Gafford, and TE Huxman. 2009. Gross primary production variability associated with meteorology, physiology, leaf area, and water supply in contrasting woodland and grassland semiarid riparian ecosystems. *Journal of Geophysical Research Biogeosciences* 114, G04010, doi:10.1029/2009JG001074

(17) Scott RL, **GD Jenerette**, DL Potts, and TE Huxman. 2009. The effect of drought on the water and carbon dioxide exchange of a woody-plant-encroached semiarid grassland. *Journal of Geophysical Research Biogeosciences* 114, G04004, doi:10.1029/2008JG000900

(16) **Jenerette GD**, RL Scott, and TE Huxman. 2008. Whole ecosystem metabolic pulses following precipitation events. *Functional Ecology* 22:924-930

(15) Shen W, **GD Jenerette**, D Hui, RP Phillips, and H Ren. 2008. Effects of changing precipitation regimes on dryland soil respiration and C pool dynamics at rainfall event, seasonal, and interannual scales. *Journal of Geophysical Research Biogeosciences* 113, G03204, doi:10.1029/2008JG000685

(14) Kaye JP, A Majumdar, C Gries, A Buyantuyev, NB Grimm, D Hope, **GD Jenerette**, W Zhu, and L Baker. 2008. Hierarchical Bayesian scaling of soil properties across urban, agricultural, and desert ecosystems. *Ecological Applications* 18:132-145

(13) **Jenerette GD**, SL Harlan, A Brazel, N Jones, L Larsen, and WL Stefanov. 2007. Regional relationships between surface temperature, vegetation, and human settlement in a rapidly urbanizing ecosystem. *Landscape Ecology* 22:353-365

(12) Harlan SL, AJ Brazel, **GD Jenerette**, NS Jones, L Larsen, L Prashad, and WL Stefanov. 2007. In the shade of affluence: The inequitable distribution of the urban heat island. R*esearch in Social Problems and Public Policy* 15:173-202

(11) **Jenerette GD** and R Lal. 2007. Modeled carbon sequestration variation in a linked erosion-deposition system. *Ecological Modelling* 200:207-216

(10) **Jenerette GD**, J Wu, NB Grimm, and D Hope. 2006. Points, patches, and regions: Scaling soil biogeochemical patterns in an urbanized arid ecosystem. *Global Change Biology* 12:1532-1544

(9) **Jenerette GD**, WA Marussich, and J Newell. 2006. Linking ecological footprints with ecosystem service valuation in the provisioning of urban freshwater. *Ecological Economics* 59:38-47

(8) **Jenerette GD** and L Larsen. 2006. A global perspective on changing sustainable urban

water supplies. *Global and Planetary Change* 50:202-211

(7) **Jenerette GD**, W Wu, S Goldsmith, WA Marussich, and WJ Roach. 2006. Contrasting water footprints of cities in China and the United States. *Ecological Economics* 57:346-358

(6) **Jenerette GD** and J Wu. 2004. Interactions of ecosystem processes with spatial heterogeneity in the puzzle of nitrogen limitation. *Oikos* 107:273-282

(5) Shen W, **GD Jenerette**, J Wu, and RH Gardner. 2004. Evaluating empirical scaling relations of pattern metrics with simulated landscapes. *Ecography* 27:459-469

(4) **Jenerette GD**, J Lee, D Waller, and RE Carlson. 2002. A multivariate analysis of the ecoregion delineation for aquatic systems. *Environmental Management* 29:67-75

(3) Luck MA, **GD Jenerette**, J Wu, and NB Grimm. 2001. The urban funnel model and spatially heterogeneous ecological footprint. *Ecosystems* 4:782-796

(2) **Jenerette GD** and J Wu. 2001. Analysis and simulation of land-use change in the central Arizona - Phoenix region, USA. *Landscape Ecology* 16:611-626

(1) Casamatta DA, AB Collier, **GD Jenerette**, and RG Verb. 1999. Spatial heterogeneity of the bacterial community in a newly rehabilitated wetland. *Journal of Freshwater Ecology* 14:371-378

Refereed Conference Proceedings

(4) Martin CA, **GD Jenerette**, SL Harlan. 2012. Air and near surface temperature regimes in neighborhood parks of Phoenix, Arizona, USA during extreme summer heat. 4 pgs. 8th International Conference on Urban Climates

(3) Hary A, A Akoglu, Y B Al-Nashif, S Hariri, **GD Jenerette**. 2010. Design and evaluation of self-healing Kepler for scientific workflows. 340-343. HPDC 2010 - Proceedings of the 19th ACM International Symposium on High Performance Distributed Computing

(2) Jararweh Y, A Hary, Y B Al-Nashif, S Hariri, A Akoglu, **GD Jenerette**. 2009. Accelerated discovery through integration of Kepler with data turbine for ecosystem research. AICCSA, pp.1005-1012, 2009 IEEE/ACS International Conference on Computer Systems and Applications

(1) **Jenerette GD**, J Lee, D Waller, and RE Carlson. 1998. The effect of spatial dimension on regionalization of lake water quality data. In T.K. Poiker and N. Chrisman (eds.) 8th International Symposium on Spatial Data Handling 256-265. International Geographical Union

Other Refereed Scholarly Publications

(10) **Jenerette GD, H Andrews, JR Eberwein, I Park**. *Invited*. Biogeochemical cycling in chaparral. In H Safford and E Underwood (eds) The Ecological Value of Chaparral Landscapes: Ecosystem Services and Resource Management

(9) Pataki DE, **Jenerette GD**, S Pincetl, T Trammell, L Ervin. 2016. Urban Ecosystems. In H Mooney and E Zavaleta (eds) Ecosystems of Califonia

(8) Allen MF, CW Barrows, MD Bell, **GD Jenerette**, RF Johnson, EB Allen. 2014. Threats to California's desert ecosystems. Fremontia 42:3-8.

(7) **Jenerette GD**. 2013. Ecological responses and interactions with drought in the southwestern United States. In K Schwabe and A Dinar (eds) Drought in Arid and Semi-Arid Regions, Springer-Verlag. 185-197

(6) Wu J, A Buyantuyev, **GD Jenerette**, J Litteral, W Shen. 2012. Quantifying spatiotemporal patterns and ecological effects of urbanization: A multiscale landscape approach. In M. Richter and U. Weiland (eds) Applied Urban Ecology: A Global Framework,

Blackwell. 35-53

(5) **Jenerette GD** and **KP Alstad**. 2010. Water Use in Urban Ecosystems: Complexity, costs and services of urban ecohydrology. In J. Aitkenhead-Peterson and A. Volder (eds.) Urban Ecosystem Ecology 353-371

(4) Scott RL, **GD Jenerette**, TE Huxman. 2010. Semiarid Ecohydrological Array – SECA. Fluxletter 2:10-12

(3) **Jenerette GD** and J Wu. 2010. Quantitative measures and landscape ecology. In L. Kapustka, W. Landis, and A. Johnson (eds.) Environmental Risk Assessment and Management from a Landscape Perspective John Wiley and Sons. 75-96

(2) Wu J, **GD Jenerette**, and JL David. 2003. Linking land use change with ecosystem processes: A hierarchical patch dynamics model. In S. Guhathakurta (ed.) Integrated Land Use and Environmental Models Springer-Verlag. 99-119

(1) **Jenerette GD** and J Wu. 1999. On the definitions of scale. *Bulletin of the Ecological Society of America* 8:104-105

Research Funding ($20.0M total; $3.4M to Jenerette)

02/2017-01/2018 **National Aeronautic and Space Administration**, Citizen science in urban regions to address satellite subpixel uncertainties in the vegetation, climate, and air quality nexus. $197,521 PI

06/2016-12/2017 **United States Department of Agriculture**, Resampling the Los Angeles Urban Forest. $26,721 PI

04/2016-03/2018 **Earthwatch Institute**, Towards designing a more sustainable urban forest. $85,000 PI

04/2016-03/2019 **National Institute of Food and Agriculture**, USDA Cultivating Diversity in a 2+2+2 Collaborative Project. $90,490 coPI (with M McGiffen PI, and H Liu)

07/2016-06/2019 **National Institute of Food and Agriculture**, Reducing gaseous nitrogen losses from high temperature agricultural systems. $499,251 PI (with J Wang, P Oikawa)

09/2015-08/2018 **Earthwatch Institute**, Linking urban tree leaf traits to potential cooling benefits across a large US metropolitan area. $88,071 PI

07/2015-07/2016 **UC Agricultural and Natural Resources Division**, Ensuring the success of ANR Flux: Evaluation of long-term network configuration and initial science applications. $61,360 PI

08/2015-08/2020 **National Science Foundation**, Urban Water Innovation Network (U-WIN): Transitioning Toward Sustainable Urban Water Systems. $12,000,000 ($319,210 to UCR) Sub-Award PI, Project Senior Personnel (with M Arabi Project PI, A Berkowitz, E Bou-Zeid, GE Pivo, R Haggerty, C Welty, M Sukop)

01/2015-12/2018 **National Aeronautical and Space Administration**, Enhanced data-driven decision support for highly invasive vectors. $1,189,773 ($161,630 to UCR) Sub-Award PI (with C Barker Project PI, WK Reisen, T Scott, F Melton)

07/2014-12/2015 **UCMexus**, Effect of land use, soil type and agricultural practices on preserving organic soil carbon stocks. $14,900 coPI (with M Allen PI, E Allen, H Estrada Medina, J Jiminez-Osornio)

06/2014–05/2015 **National Science Foundation**, Dissertation Research: Connecting dryland soil trace gas emissions of NO_x, N_2O and CO_2 to microbial community dynamics along a nitrogen deposition gradient. $19,745 PI in support of J Eberwein (DDIG)

08/2013-07/2015 **U.S. Agency for International Development,** Evaluating climate change impacts on the arid lands and water resources of Jordan, $87,000 coPI (with Y Jaraweh PI)

11/2012-10/2015 **National Aeronautic and Space Administration**, Assessing relationships between urban land cover, surface temperature, and transpiration along a coastal to desert climate gradient, $501,326 PI

08/2012-09/2013 **California Institute for Energy and the Environment**, Carbon balance in California deserts: Impacts of widespread solar power generation, $149,890 coPI (with M Allen PI, L Santiago)

06/2012-05/2014 **National Science Foundation**, Dissertation Research: The effect of human management and soil properties on heavy metal content of Los Angeles Community Garden soils, $14,980 PI in support of L Clarke (DDIG)

06/2012-08/2012 **California Avocado Commission**, Initial scoping of ecosystem services provided by avocado orchards in southern California, $20,000 PI

10/2011-11/2013 **United States National Park Service**, Atmospheric nitrogen deposition assessment in the Santa Monica Mountains NRA and the effects on weed invasion, $100,000 coPI (with E Allen PI, J Sickman, M Fenn)

07/2011-07/2014 **United States Forest Service**, Assessing the effects of local water district policies on urban forests and their implications across socio-economic groups, $64,000 coPI (with K Baerenklau PI, K Schwabe)

10/2011-12/2016 **United States Forest Service**, Base-level vegetation mapping for the Angeles National Forest, $164,740 PI

07/2011-06/2015 **National Institute of Food and Agriculture**, Life cycle assessment of sequestration and exchange of water, carbon and nitrogen in the dedicated bioenergy feedstock, energy cane, $967,769 coPI (with D Grantz PI)

07/2011-06/2014 **National Science Foundation**, Collaborative research: Assessing decadal climate impacts on urban populations in the Southwestern USA, $897,000 ($147,000 to UCR) PI on Collaborative Proposal (with B Ruddell Project PI, M Maoustaouri, E Vivoni)

02/2011-02/2014 **United States Golf Association**, Water-Use efficiency and carbon sequestration influenced by turfgrass species and management practices, $55,553 PI (with J Baird)

07/2009-06/2013 **National Science Foundation**, Collaborative research: Toward a biogeography of urban forests, $791,498 ($249,670 to UCR) PI on Collaborative Proposal (with D Pataki Project PI, S Pincetl, T Gillespie)

07/2009-06/2010 **National Science Foundation**, Research starter grant: An urban environmental observatory, $50,000 PI

01/2009-06/2009 **Coachella Valley Association of Governments**, JS-CVCC CVMSHCP Monitoring Program 2009 Administrator, $116,000 coPI (with M Allen Project PI, C Barrows, E Allen, R Redak, J Rotenberry, W Walton)

01/2009-12/2010 **Kearney Foundation**, Soil metabolic variability across a 3000 meter topographic gradient: Understanding the long term consequences of short duration dynamics, $89,900 PI (with M Allen)

10/2010-10/2012 **National Park Service**, Alien invasion: Effects of atmospheric nitrogen deposition on sagebrush steppe vegetation dynamics at Upper Columbia Basin network parks, $100,000 coPI (with E Allen Project PI, J Sickman)

09/2008-02/2013 **National Science Foundation**, Collaborative Research: Urban vulnerability to climate change: A systems dynamics analysis, $1,500,000 ($135,000 to UCR) PI on Collaborative Proposal (with S Harlan Project PI, C Martin, T Lant, S. Grossman-Clark, W. Stefanov, M Elser)

06/2008-09/2008 **United States Department of Agriculture**, LAMillion Trees: Distribution and physiological characteristics, $15,500 PI

Synergistic Activities

Congressional Briefings
Association of Ecosystem Research Centers sponsored briefing to the U.S. Congress – Cities, Agriculture, and Wildlands: Ensuring Continued Ecosystem Services from Our Rapidly Changing Landscapes. Washington, D.C. October 2014

Ecological Society of America sponsored briefing to the U.S. House of Representatives and Senate – Water Resources in the West: Assessing Tradeoffs in a changing climate. Washington, DC. July 2009

Invited Outreach
Panelist, "What is the Value of a Tree", Riverside, Idyllwild, and Palm Desert, CA. February 2017

Urban Forestry Advisory Group, Climate Action through Conservation, The Nature Conservancy. August 2014-December 2015

Nature Reserve of Orange County Science Panel Meeting, Irvine, CA. November 2013

Funding Agency Panel Member
National Science Foundation 2017, 2014, 2011, 2010
Environmental Protection Agency 2009

Funding Agency Ad hoc Reviewer
National Science Foundation
Department of Energy
Kearney Foundation of Soil Science

Editorial Board Member
Landscape Ecology 2008 - Present
Landscape and Urban Planning 2016 – Present
Frontiers in Ecology and Evolution 2015 - Present

Journal Referee
Agricultural and Forest Meteorology • Applied Geography • Biogeosciences • Bioscience • Cities • Ecological Applications • Ecological Complexity • Ecological Economics • Ecological Modelling • Ecology • Ecology Letters • Ecosystems • Environmental Health Perspectives • Environmental Management • Environmental Pollution • Frontiers in Ecology and the Environment • Geographic Information Science • Global Change Biology • Global Ecology and Biogeography • Hydrological Processes • Journal of American Water Resources Association • Journal of Arid Environments • Journal of Ecology • Journal of Environmental Management • Journal of Geophysical Research – Biogeosciences • Landscape and Urban Planning • Landscape Ecology • New Phytologist • Remote Sensing of the Environment • Science Advances • Science of the Total Environment • Scientific Reports • Water Resources Research • Urban Ecosystems

Societal Memberships and Service
Member: American Association for the Advancement of Science • American Geophysical Union • Ecological Society of America • International Association for Landscape Ecology

Invited Member: American Geophysical Union Hydrology Section's Ecohydrology Technical Committee *2010-2015*

Workshops and Symposia Organized
Toward a Landscape Perspective of Green Infrastructure. Symposium at the U.S. International Association for Landscape Ecology Meeting, Baltimore, MD. 2017

Accelerating Research and Discovery with EcoInformatics: Cyberinfrastructure, Instrumentation, and Theory. Biosphere 2 and CUAHSI Synthesis Workshop. Oracle, AZ. 2008

Collaborative Interdisciplinary Research for Graduate Students. Workshop at the Long Term Ecological Research Graduate Student Symposium. Blue River, OR. 2005

Case Studies of Short Term Collaborations. Workshop at the Long Term Ecological Research All Scientists Meeting Seattle, WA. 2003

Complexity Theory and Ecological Applications. Symposium at the U.S. International Association for Landscape Ecology Meeting, Tempe, AZ. 2001

Invited Workshop / Working Group Participant
Growing the Urban Forest, Socio-Environmental Synthesis Center, Annapolis, MD. February 2016

The Role of Environmental Change on the Human-Wildland Interface: The Lowland Maya as a Model System, Merida, Mexico. December 2015

Detecting Signatures of Socio-Ecological Innovation in Urban Ecosystems, Socio-Environmental Synthesis Center, Annapolis, MD. October 2015

Eddy Flux Measurements for the Groundwater-Surface Water Interaction Zone, Pacific Northwest National Laboratory, Richland, WA. September 2014

Urban Heat Island Network Workshop, St. Paul, MN. June 2013

CUAHSI Synthesis Team – Water Cycle Dynamics in a Changing Environment: Advancing Hydrologic Science through Synthesis. 2007-2009

Second International Young Scientists' Global Change Conference. System for Analysis, Research, and Training. Beijing, Peoples Republic of China. November 2006

Uncertainty and Variability in Ecological Inference, Forecasting, and Decision Making. Center for Global Change at Duke University. Durham, NC. June 2006

Global Ecology Workshop. Mathematical Biosciences Institute at the Ohio State University. Columbus, OH. June 2006

Monsoon Region Climate Applications: A Binational Workshop. National Oceanic and Atmospheric Administration. Guaymas, Mexico. May 2006

Dissertation Initiative for the Advancement of Climate Change Research Symposium (DISCCRS) II. National Science Foundation. Pacific Grove, CA. March 2006

Science Environment for Ecological Knowledge: Ecological Informatics Workshop. Long Term Ecological Research Network. Albuquerque, NM. January 2006

Long Term Ecological Research Graduate Student Symposium. Long Term Ecological Research Network. Blue River, OR. March 2005

Woodstoich: Ecological Stoichiometry Workshop. Center for Advanced Studies. Finse, Norway. August 2004

Chapman Conference on Eco-Hydrology of Semiarid Landscapes: Interactions and Processes. American Geophysical Union. Taos, NM. September 2002

Complex Systems Summer School. Santa Fe Institute. Santa Fe, NM. June 1997

Invited Presentations

University of California Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA November 2016

Southern California Botanists Symposium, Pomona, CA October 2016

Jet Propulsion Laboratory, Pasadena CA October 2016

University of Pittsburgh, Department of Geology and Environmental Sciences, Pittsburgh PA September 2016

United States – International Association of Landscape Ecologists, Asheville, NC April 2016

American Geophysical Union Fall Meeting, San Francisco, CA December 2015

Soil Science Society of America Annual Meeting, Minneapolis, MN November 2015

World Congress of the International Association of Landscape Ecologists, Portland, OR July 2015

Southern California Chaparral Symposium, Arcadia, CA June 2015

American Geophysical Union Fall Meeting, San Francisco, CA December 2014

Natural History Museum, Los Angeles, CA December 2014

Pacific Northwest National Laboratory, Richland, WA September 2014

Ecological Society of America Annual Meeting, Sacramento, CA August 2014

American Association for the Advancement of Science Pacific Division, Riverside, CA June 2014

Air Pollution and Global Change Symposium, Pacific Grove, CA June 2014

International Conference of Geography and Environment, Mexico City, Mexico October 2013

University of California Los Angeles, Department of Atmospheric and Oceanic Sciences, Los Angeles, CA October 2013

University of California Agriculture and Natural Resources Statewide Conference, Ontario, CA April 2013

University of California Berkeley, Department of Environmental Science, Policy, and Management. Berkeley, CA March 2013

American Geophysical Union Fall Meeting, San Francisco, CA December 2011

University of Maryland Baltimore County, Center for Urban Environmental Research and Education, Baltimore, MD October 2011

8th World Congress International Association for Landscape Ecology, Beijing, China August 2011

Long Term Ecological Research Science Council Meeting, Jekyll Island, GA May 2011

Ecological Society of America Annual Meeting, Pittsburg, PA August 2010

University of Puerto Rico, Department of Biology, San Juan, Puerto Rico February 2010

American Geophysical Union Fall Meeting, San Francisco, CA December 2009

Xinjiang Institute of Ecology and Geography, Chinese Academy of Science. Urumqi, China September 2009

Chinese Agricultural University, Beijing, China September 2009

University of Arizona, Sustainability of Semi-Arid Hydrology and Riparian Areas (SAHRA) Tucson, AZ September 2009

Hydrological Sciences Synthesis Summer Institute. Vancouver, Canada. July 2009

South China Botanical Garden, Chinese Academy of Science. Guangzhou, China June 2008

Institute of Botany, Chinese Academy of Science. Beijing, China June 2008

University of California Irvine, Department of Earth System Science. Irvine, CA March 2008

University of California Los Angeles, Department of Civil and Environmental Engineering. Los Angeles, CA January 2008

University of Illinois Urbana-Champaign, Department of Natural Resources. Urbana-Champaign, IL March 2007

North Carolina State University, Department of Forestry and Environmental Resources. Raleigh, NC February 2007

University of California Riverside, Department of Botany and Plant Sciences. Riverside, CA February 2007

University of California Davis, College of Agricultural and Environmental Sciences. Davis, CA January 2007

Chinese Academy of Science, Institute of Botany. Beijing, China November 2006

Second International Young Scientists' Global Change Conference. Beijing, China November 2006

Monsoon Region Climate Applications: A Binational Workshop. Guaymas, Mexico May 2006

University of Washington, College of Forest Resources. Seattle, WA May 2006

Dissertation Initiative for the Advancement of Climate Change Research Symposium (DISCCRS) II. Pacific Grove, CA March 2006

University of California Davis, Department of Plant Sciences. Davis, CA June 2005

Auburn University, School of Forestry and Wildlife Sciences. Auburn, AL May 2004

Arizona Geographic Information Council Annual Meeting. Prescott, AZ August 2003

University of New Mexico, Biocomplexity Seminar Series. Albuquerque, NM April 2003

Chapman Conference on Eco-Hydrology of Semiarid Landscapes: Interactions and Processes. Taos, NM September 2002

University of Washington, Urban Ecology IGERT. Seattle, WA May 2002

National / International Presentations (Prior 5 Years) (*Lab members in **bold**)*

Eberwein JR, C Carey, EL Aronson, **GD Jenerette**. Investigating the microbial community responsible for unusually high soil N_2O and NO_x emissions in the Colorado Desert. American Geophysical Union, San Francisco, CA December 2016

Rochford ME, P Ibsen, **GD Jenerette**. Species Richness and Functional Trait Diversity for Plants in Southern California's Green Infrastructure along a Climate Gradient. American Geophysical Union, San Francisco, CA December 2016

Andrews H, JR Eberwein, **GD Jenerette**. Changes in trace gas Nitrogen Emissions as a Response to Ecosystem Type Conversion in a Semi-Arid Climate. American Geophysical

Union, San Francisco, CA December 2016

Rossi, RJ, DJ Bain, **GD Jenerette**. Phosphorus deposition to roadside soils: Contributions to a unique biogeochemical environment. Goldschmidt Conference, Yokohama, Japan June 2016

Tayyebi A and **GD Jenerette**. Urban heat island variation across a dramatic coastal to desert climate zone: An application to Los Angeles, CA metropolitan area. American Geophysical Union, San Francisco, CA December 2015

Eberwein J, C Carey, E Aronson, **GD Jenerette**. Wetting-induced pulses produced unexpectedly high emissions of N_2O and NO_x in a desert ecosystem. American Geophysical Union, San Francisco, CA December 2015

P Oikawa, D Baldocchi, S Knox, C Sturtevant, J Verfaille, I Dronova, **GD Jenerette**, C Poindexter, Y Huang. Using eddy covariance of CO_2, $^{13}CO_2$ and CH_4, continuous soil respiration measurements, and phenoCams to constrain a process-based biogeochemical model for carbon market-funded wetland restoration. American Geophysical Union, San Francisco, CA December 2015

Park I, **GD Jenerette**, J Hooper. Evidence for recent invasion of historically resistant chaparral shrublands to grasslands. American Geophysical Union, San Francisco, CA December 2015

Crum S and **GD Jenerette**. Impacts of land use and land cover on surface and air temperature in urban landscapes. American Geophysical Union, San Francisco, CA December 2015

Liang LL and **GD Jenerette**. Estimation of water flux in urban area using eddy covariance measurements in Riverside, Southern California. American Geophysical Union, San Francisco, CA December 2015

Ibsen P, **S Arps**, **S Shiflett**, **GD Jenerette**. Biological and geographical sources of variation in leaf economic and hydraulic traits throughout the Los Angeles megacity. American Geophysical Union, San Francisco, CA December 2015

Lu XF, **Liang LL**, LX Wang, **GD Jenerette**, D Grantz. Partitioning of Evapotranspiration Using a stable water isotope technique in a high temperature agricultural production system. American Geophysical Union, San Francisco, CA December 2015

Oikawa PY, S Knox, C Sturtevant, J Verfaille, I Dronova, C Poindexter, **GD Jenerette**, D Baldocchi. Improving process-based modeling of CO_2 and CH_4 exchange from managed wetlands in the Sacramento-San Joaquin River Delta. Ecological Society of America Annual Meeting, Baltimore, MD August 2015

Avolio ML, DE Pataki, S Pincetl, **GD Jenerette**, TW Gillespie, TLE Tramell. Plant community assembly in cultivated urban ecosystems. Ecological Society of America Annual Meeting, Baltimore, MD August 2015

Shiflett S, G Feyisa, Jenerette GD. C Relationships between urban land surface temperature, air temperature, and NDVI across a coastal to desert climate gradient. Ecological Society of America Annual Meeting, Baltimore, MD August 2015

Jenerette GD. Biodiversity and ecosystem services in the Los Angeles, CA metropolitan region. International Association of Landscape Ecologists World Congress, Portland, OR June 2015

Jenerette GD. Carbon cycling and sequestration in chaparral landscapes. 2nd Southern California Chaparral Symposium, Arcadia, CA June 2015

Jenerette GD. Are ecosystem services useful for a sustainable city? American Geophysical Union Annual Meeting. San Francisco, CA December 2014

Oikawa, P, **GD Jenerette** S Knox, C Sturtevant, J Verfaille, D Baldocchi. Combining microbial enzyme kinetics models with light use efficiency models to predict CO2 and CH4 Ecosystem Exchange from Peatlands. American Geophysical Union Annual Meeting. San Francisco, CA December 2014

Crum, S and **GD Jenerette**. Land use and climate effects on soil respiration quantified with a landscape sensor network. American Geophysical Union Annual Meeting. San Francisco, CA December 2014

Shiflett, S, R Anderson, **GD Jenerette**. Evaporation and surface energy balance across an agricultural-urban landscape gradient in southern California, USA. American Geophysical Union Annual Meeting. San Francisco, CA December 2014

Liang LL, **J Eberwein**, **L Allsman**, D Grantz**, and GD Jenerette**. Soil CO_2, N_2O, and NO_x flux responses to high temperature agriculture. American Geophysical Union Annual Meeting. San Francisco, CA December 2014

Clarke, LW, **GD Jenerette**, ML Avolio, DE Pataki, TW Gillespie, S Pincetl, DJ Nowak, LR Hutyra, MR McHale, JP McFadden, M Alonzo. Comparative urban biogeography: tree community and trait assembly patterns for twelve major U.S. metropolitan areas. Ecological Society of America Annual Meeting. Sacramento, CA August 2014

Jenerette GD. Heat wave vulnerability and mitigation in urban ecosystems. Ecological Society of America Annual Meeting. Sacramento, CA August 2014

Eberwein JR and **GD Jenerette**. Influence of C and N availability on repeated wetting-induced pulses of soil respiration in a southern California desert. Ecological Society of America Annual Meeting. Sacramento, CA August 2014

Swanson, A, ME De Guzman, **GD Jenerette**, LS Santiago, EB Allen, MF Allen. Implications of sil inorganic carbon dynamics in California desert ecosystems. Ecological Society of America Annual Meeting. Sacramento, CA August 2014

Avolio, ML, DE Pataki, S Pincetl, TW Gillespie, **GD Jenerette**, HR McCarthy, **LW Clarke**. The effect of resident trees preferences on urban forest biodiversity in southern California. Ecological Society of America Annual Meeting. Sacramento, CA August 2014

Bytnerowicz A, W Fraczek, R Johnson, M Fenn, L Zhang, **GD Jenerette**. From passive samplers to estimates of dry nitrogen deposition in the western United States. American Association for the Advancement of Science Pacific Division. Riverside CA June 2014

Jenerette GD. Vegetation and Urban Climate in a Changing World. American Association for the Advancement of Science Pacific Division. Riverside CA June 2014

Jenerette GD, **PY Oikawa**, **L Liang**, **JR Eberwein**, **C Fertitta**, DA Grantz. Accelerated biogeochemical cycling in high temperature agroecosystems. Air Pollution and Global Change Symposium. Pacific Grove, CA June 2014

Jenerette GD, **A Buyantuyev**, S Harlan, BL Ruddell, SW Myint. Regulation and consequences of parcel-scale microclimate variation in Phoenix, AZ. United States Chapter of the International Association of Landscape Ecologists. Anchorage, AK May 2014

Crum SM, **GD Jenerette**. Scaling soil respiration dynamics across regional land-use and climate gradients in southern California, USA. United States Chapter of the International Association of Landscape Ecologists. Anchorage, AK May 2014

Jenerette GD, **A Buyantuyev**, S Harlan, S Grossman-Clarke, BL Ruddell, SW Myint. Urban surface temperature vulnerability assessments. American Geophysical Union Annual Meeting. San Francisco, CA December 2013

Liang L, **J Eberwein**, **P Oikawa**, **GD Jenerette**, DA Grantz. Carbon dioxide(CO_2) and nitrous oxide (N_2O) fluxes in an agro-ecosystems under changing physical and biological conditions. American Geophysical Union Annual Meeting. San Francisco, CA December 2013

Scott RL, TE Huxman, G Barron-Gafford, **GD Jenerette**, JM Young. The ecohydrological consequences of woody plant encroachment: How accessibility to deep soil water resources affects ecosystem carbon and water exchange. American Geophysical Union Annual Meeting. San Francisco, CA December 2013

Rossi R, DJ Bain, **GD Jenerette**, **LW Clarke**, K Wilson. Responses of roadside soil cation pools to vehicular emission deposition in southern California. American Geophysical Union Annual Meeting. San Francisco, CA December 2013

Grantz DA, **LY Liang**, **PY Oikawa**, **CN Fertitta**, **JR Eberwein**, **GD Jenerette**. Drivers of NO_x, N_2O, and CO_2 in an arid biofuel production system. Association for the Advancement of Industrial Crops Annual Meeting. Washington DC October 2013

Bytnerowicz A, W Fraczek, R Johnson, **GD Jenerette**, EA Allen, M Fenn. From passive samplers to estimates of nitrogen deposition in arid and semi-arid areas of the western United States. National Atmospheric Deposition Program Annual Meeting. Park City, UT October 2013

Velasco LM, **J Hooper**, **GD Jenerette**. Variation in city tree ecophysiological characteristcs under changing temperatures. Ecological Society of America Annual Meeting. Minneapolis, MN August 2013

Crum SM, **GD Jenerette**. Scaling soil respiration dynamics across regional land-use and climate gradients in southern California USA. Ecological Society of America Annual Meeting. Minneapolis, MN August 2013

Lan Z, Y Bai, **GD Jenerette**. N-induced biodiversity loss will persist with upscaling as beta diversity decreases by N. Ecological Society of America Annual Meeting. Minneapolis, MN August 2013

Fertitta CN, **PA Oikawa**, **GD Jenerette**, DA Grantz. Assessing the sustainability of *Sorghum bicolor* as a biofuel crop grown in a low desert environment: Constraints on productivity and water use efficiency . Ecological Society of America Annual Meeting. Minneapolis, MN August 2013

Avolio ML, DE Pataki, S Pincetl, TW Gillespie, **GD Jenerette**, HR McCarthy. Understanding the drivers of urban tree biodiversity in Los Angeles. Ecological Society of America Annual Meeting. Minneapolis, MN August 2013

Swanson AC, ME De Guzman, **GD Jenerette**, LS Santiago, EB Allen, MF Allen. Dynamics and importance of inorganic carbon in California desert ecosystems. Soil Ecology Society Annual Meeting. Camden, NJ June 2013

Clarke LW, **GD Jenerette**, D Bain. Risks and benefits in urban soil: Heavy metals and nutrient content in Los Angeles Community Gardens. 2013 UC ANR Statewide Conference, Ontario, CA May 2013

Teaching and Advising

Postdoctoral Advising (14 total)
Peter Homyak 2017 – present; Julie Ripplinger 2016-present; Jingli Yan 2016-present; 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 (7 total)
Completed

Jennifer Eberwein 2016 (EPA STAR Fellow); Lorraine Weller (NSF EAPSI Fellow) 2014

In Progress
Asma Ayyad 2017 (Eugen Cota-Robles Award Fellow); Dion Kucera 2016; Peter Ibsen 2015 (GAANN Fellow); Holly Andrews 2015 (NASA FIELDS Fellow, NSF EAPSI Fellow); Cara Fertitta 2012 (GAANN Fellow); Steven Crum 2012

M.S. Student Advising (1 total)
Lauren Velasco 2016

Visiting Scholar Host (6 total)
Zin Zhang 2015-2016; Lan Zhichun 2012-2013; Jen Hooper 2011-2013; Liangtao Li 2011-2012; Weijun Shen 2010-2011; Hou Ying 2008-2009

Undergraduate Research Advising (21 total)
Andrew Loera (2017); Dillon Schneider 2016 (Bridges Fellow); Sandeep Aurora 2016; Bruno Pita 2016; Mia Rochford 2015-present; Sara Alperts 2015 (Bridges Fellow); Jeremy Gonzalez 2014; Neha Chandru 2013-2014; Colin Reis 2013; Ariana Contreras (CNAS Fellow, Chancellor's Research Fellow) 2012-2014; Jen Antes 2012-2013 (Bridges Fellow); Kyle Ricio (Chancellor's Research Fellow) 2012-2014; Alice Brown 2012; Sarah Juster (MRSP Fellow) 2011-2014; Angela Choi 2011-2013; Yuheng Ning 2011-2012; Anais Monay 2011-2012; Maeraj Sheikh 2010-2011(CNAS Fellow); Josue Jaimes 2009-2012; Justin Richardson 2009-2010; Alea Miehls 2008-2009

Courses
University of California Riverside
- Introductory Ecology and Evolution – 4 Credit, Undergraduate (470+ students)
- Introductory Organismal Biology – 4 Credit, Undergraduate (400+ students)
- Applied Ecological Modeling – 3 Credit Lecture, 1 Credit Lab, Graduate
- Landscape Ecology – 4 Credit, Graduate
- Sustainability Science – 2 Credit, Graduate
- Ethnobotany – 2 Credit, Graduate

University of Arizona
- Ecological responses to global changes – 1-3 Credit, Graduate

Arizona State University West
- Ecological Modeling – 3 Credit, Undergraduate

Invited Trainer
Collaborative Graduate Student Research Workshop, Long Term Ecological Research Student Symposium, Blue River, OR