

Stephanie Pau

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Education

2005-2009 University of California, Los Angeles, Ph.D. Geography

2003-2005 University of California, Los Angeles, M.A. Geography

1997-2001 University of California, Santa Barbara, B.A. Environmental Studies

Academic Appointments

2013-present Assistant Professor, Florida State University, Department of Geography

2010-2012 Postdoctoral Fellow, National Center for Ecological Analysis & Synthesis

Honors and Awards

FSU Planning Grant, 2015 (\$13,000)

FSU Robert B. Bradley Library Research Grant, 2015 (\$5,000)

FSU Committee on Faculty Research Support Award, 2014 (\$14,000)

FSU First Year Assistant Professor Award, 2013 (\$20,000)

National Center for Ecological Analysis & Synthesis, 2010-2012 (\$111,000)

UCLA Dissertation Year Fellowship, 2008-2009 (\$20,000)

NASA Earth System Science Fellowship, 2005-2008, (\$72,000)

UCLA Institute of the Environment Teaching Fellowship, 2007-2008 (\$18,000)

UCLA Quality for Graduate Education Award, 2005 (\$5,000)

Stephen A. Varva Fellowship for Organismal Plant Biology, 2004 (\$18,000)

UCSB Dean of Mathematics, Life and Physical Sciences Award, 2000 (\$1,000)

Publications

Nelson*, M., K. Zak*, T. Davine*, and S. **Pau**. Climate change and food systems research: Current trends and future directions. In Press: *Geography Compass*.

*student authors

Pau, S. and L.E. Dee. Remote sensing of species dominance and the value for quantifying ecosystem services. Early View: *Remote Sensing for Biodiversity and Conservation* doi: 10.1002/rse2.23.

Widen*, H.M., J.B. Elsner, S. **Pau**, C. Uejio (2016) Examples of graphical inference in Geography. *Geographical Analysis* 48:115-131.

Angelo, C.L. and S. **Pau** (2015) Root biomass and soil $\delta^{13}\text{C}$ in C_3 and C_4 grasslands along a precipitation gradient. *Plant Ecology* 216:615-627.

Pau, S.P, and C.J. Still (2014) The phenology and productivity of C_3 and C_4 grasslands in Hawaii. *PlosOne* 9:e107396.

Gillespie, T.W., K. O'Neill, G. Keppel, S. **Pau**, J.Y Meyer, J.P. Price, J. Tanguy (2014) Prioritizing conservation of tropical dry forests in the Pacific. *Oryx* 48:337-344.

Still, C.J., S. **Pau**, E.J. Edwards (2014) Land surface skin temperature captures thermal environments of C_3 and C_4 grasses. *Global Ecology and Biogeography* 23:286-296.

Pau, S., E.M. Wolkovich, B. I. Cook, C. Nytch, J. Regetz, J. Zimmerman, S.J. Wright (2013) Clouds and temperature drive dynamic changes in tropical flower production. *Nature Climate Change* 3:838-842.

Davies, T.J., E.M. Wolkovich, N.J.B. Kraft, N. Salamin, J.M. Allen, T.R. Ault, J.L. Betancourt, K. Bolmgren, E.E. Cleland, B.I. Cook, T.M. Crimmins, S.J. Mazer, G.J. McCabe, B.J. McGill, C. Parmesan, S. **Pau**, J. Regetz, M.D. Schwartz, S. Travers (2013) Phylogenetic conservatism in plant phenology. *Journal of Ecology* 101:1520-1530.

Rovzar, C., T.W. Gillespie, K. Kawelo, M. Hirshen, E.C. Riordan, S. **Pau** (2013) Modelling the potential distribution of endangered, endemic *Hibiscus brackenridgei* on Oahu to assess the impacts of climate change and prioritize conservation efforts. *Pacific Conservation Biology* 19:156-168.

Gillespie, T.W., G. Keppel, S. **Pau**, J.P. Price, Jaffré Tanguy (2013) Scaling species richness and endemism of tropical dry forests on oceanic islands. *Diversity and Distribution* 19:896-906.

Cook, B.I., and S. **Pau** (2013) Long-term greening and browning trends in global pasture lands using the GIMMS LAI3g dataset. *Remote Sensing* 5:2492-2512.

Gillespie, T.W., B. Lipkin, L. Sullivan, D.R. Benowitz, S. **Pau**, G. Keppel (2013) The rarest and least protected forests in Biodiversity Hotspots. *Biodiversity and Conservation* 21:3597–3611.

Pau, S., E.J. Edwards, C.J. Still (2013) Improving our understanding of environmental controls on the distribution of C_3 and C_4 grasses. *Global Change Biology* 19:184-196.

Cook, B.I., E.M. Wolkovich, T.J. Davies, T.R. Ault, J.L. Betancourt, J.M. Allen, K. Bolmgren, E.E. Cleland, T.M. Crimmins, N.J.B. Kraft, L.T. Lancaster, S.J. Mazer, G.J. McCabe, B.J. McGill, C. Parmesan, S. **Pau**, J. Regetz, N. Salamin, M.D. Schwartz, S.E. Travers (2012) Sensitivity of spring phenology to warming across temporal and spatial climate gradients in two independent databases. *Ecosystems* 15:1283-1294.

Wolkovich, E.M., B.I. Cook, J.M. Allen, T.M. Crimmins, J.L. Betancourt, S. Travers, S. **Pau**, J. Regetz, T.J. Davies, N.J.B. Kraft, T.R. Ault, K. Bolmgren, S.J. Mazer, G.J. McCabe, B.J.

McGill, C. Parmesan, N. Salamin, M.D. Schwartz, E.E. Cleland (2012) Warming experiments underpredict plant phenological responses to climate change. *Nature* 485:494-497.

Pau, S., T.W. Gillespie, E.M. Wolkovich (2012) Dissecting NDVI-species richness relationships in Hawaiian dry forests. *Journal of Biogeography* 39:1678-1686

Cleland, E.E., J. M. Allen, T.M. Crimmins, J.A. Dunne, S. **Pau**, S. Travers, E.S. Zavaleta, and E.M. Wolkovich (2012) Phenological tracking enables positive species responses to climate change. *Ecology* 93:1765-1771.

Pau, S., G.M. MacDonald, T.W. Gillespie (2012) A dynamic history of climate change and human impact from Kealia Pond, Maui, Hawaiian Islands. *Annals of the Association of American Geographers* 102:748-762.

Pau, S.[†], E.M. Wolkovich[†], B.I. Cook, T.J. Davies, N.J.B. Kraft, K. Bolmgren, J. L. Betancourt and E.E. Cleland (2011) Predicting phenology by integrating ecology, evolution, and climate science. *Global Change Biology* 17:3633-3643.

[†] authors contributed equally to the work

Gillespie, T.W., G. Keppel, S. **Pau**, J.P. Price, Jaffré Tanguy, J.Y. Meyer (2011) Floristic composition of dry forests in the Pacific. *Journal of Pacific Science* 65:127-141.

Pau, S., G.S. Okin, T.W. Gillespie (2010) Asynchronous response of tropical forest leaf phenology to seasonal and El Niño-driven drought. *PLoS ONE* 5:e11325.

Pau, S., T.W. Gillespie, J.P. Price (2009) Natural history, biogeography, and endangerment of Hawaiian dry forest trees. *Biodiversity and Conservation* 18:3167-3182.

Gillespie, T.W., S. Saatchi, S. **Pau**, S. Bohlman, M. Shin, A.P. Giorgi (2009) Towards quantifying species richness of tropical forests in biodiversity hotspots. *International Journal of Remote Sensing* 30:1629-1634.

Gillespie, T.W., J. Chu, S. **Pau** (2008) Plant invasions on the Hawaiian Islands. *Geography Compass* 3:1241-1265.

In Review/Revision/Prep.

Pau, S. Shifting drivers of tropical deforestation. In revision: *BioScience*.

Pau, S. Osvaldo Calderón and S.J. Wright. Long-term changes in flower production by growth forms in response to Anthropogenic change in a tropical forest. In revision: *Global Change Biology*.

Angelo, C.L. and S. **Pau**. Root functional diversity of native and non-native C₃ and C₄ grasslands along a tropical elevation gradient in Hawaii. Resubmitted: *Pacific Science*.

Invited Seminars and Colloquia

University of British Columbia, Faculty of Forestry, Apr 2016
University of Alabama, Tuscaloosa, Geography Colloquium, Mar 2016
Florida State University, Earth, Ocean, and Atmospheric Sciences, Dec 2015
University of California, Los Angeles, Tod Spieker Geography Colloquium, Oct 2015
Florida State University, Environmental Services Program, 2015
Smithsonian Tropical Research Institute, Panama, Tupper Seminar, 2014
University of Georgia, Athens, Department of Geography Colloquium, 2013
Florida State University, Ecology and Evolution Seminar, 2013
University of California, Santa Barbara, Ecology, Evolution, and Marine Biology Department Seminar, 2011
National Center for Ecological Analysis & Synthesis, 2010

Conference Presentations (Presenting Author)

International Congress for Conservation Biology (ICCB), 2015
American Geophysical Union (AGU), 2014
Association of American Geographers (AAG), 2014
Ecological Society of America (ESA), 2012
American Geophysical Union (AGU), 2011
American Geophysical Union (AGU), 2010
Phenology 2010 Trinity College, 2010
Association of American Geographers (AAG), 2009
NASA Biodiversity and Ecological Forecasting Team Meeting, 2008
Association of Pacific Coast Geographers (APCG), 2007
Association of American Geographers (AAG), 2005

Professional Organizations

American Geophysical Union
Association of American Geographers
Society for Conservation Biology
National Asian Pacific American Women's Forum

Teaching (2/2)

Climate Change Impacts on Species, Communities, and Ecosystems: GEO5934, FSU
Environmental Science: GEO1330, FSU
Putting Science into Action: Field Methods in Plant Ecology: GEO4114/5115/IFS2040, FSU
Food and Our Environment: GEO4390, FSU
Biogeography: GEOG 4300/5305, FSU
Biodiversity in a Changing World: GEOG 2, UCLA

Global Env. Special Top: Human Impact on Tropical Forests: ENV M1CW, UCLA

Students

Current

Karissa Moffett, Geography, M.S., Main advisor

Michael Nelson, Geography, M.S., Main advisor

Jason Ducker, Earth, Ocean, and Atmospheric Sciences, M.S., Comm. member

John Humphries, Geography, M.S., Comm. member

Shoumik Rahman, Geography, Ph.D., Comm. member

Holly Widen, Geography, Ph.D., Comm. member

Kyle Spell, Biology, Undergraduate Honor's Thesis, Comm. member

Completed

Loury Migliorelli, Geography, M.S. Main advisor, 2014

Tyler Fricker, Geography, M.S. Comm. member, 2015

Jacqueline Allegra, Sociology, Undergraduate Honor's Thesis, Comm. member, 2014

Academic Service

Refereed Journals: Annals of the Association of American Geographers, Conservation Physiology, Diversity and Distributions, Ecology, Ecology Letters, Global Change Biology, Global Ecology and Biogeography, International Journal of Biometeorology, Journal of Plant Ecology, Journal of Tropical Ecology, PlosOne, Philosophical Transactions of the Royal Society Biological Sciences, Progress in Physical Geography

FSU Graduate Committee, 2015-present

NSF Long Term Ecological Research (LTER) Panel Review, 2016

NSF Division of Environmental Biology (DEB) Ad-Hoc Review, 2014

FSU Geography Colloquia organizer, 2014-2015

NSF Reviewer for GSRP, 2012

NCEAS Open House organizer, 2010-2011

Session Organizer, AAG Paleoenvironmental Change Specialty Group, 2009

Graduate Student Representative, UCLA Geography Graduate Committee, 2007-2008

Graduate Student Representative, UCLA Geography Colloquium Committee, 2005-2006

Invited Working Groups and Workshops

Origins of C4 grasslands: a new synthesis of phylogeny, ecology and paleobiology (NSF-NESCENT), 2011-2013

Forecasting phenology: integrating ecology, climatology, and phylogeny to understand plant responses to climate change (NSF-NCEAS), 2010-2012

Holocene paleoclimate in the Hawaiian Islands and its large-scale context (NOAA/ESRL/CIRES), 2012

Professional Positions

Geographic Information System (GIS) Analyst, Integrated Training Area Management (ITAM), Colorado State University at Schofield Barracks, Oahu, Hawaii, 2001-2002

Science Outreach

Featured in *Nature Careers*: Hoag, H. (2015) A numbers game. *Nature* 524:127-128.

Original co-signatory on Tallis, H. and J. Lubchencho (2014) A call for inclusive conservation. *Nature* 515:27-28

Guest Blogger, Revise&Resubmit: A Community of Early Career Scholars, 2014

One of FSU's "Newsmakers of the Year", 2013

The Academic Minute, WAMC Northeast Public Radio, 2013

Florida State University's Headlines Radio, 2013

Kids Do Ecology (mentor for 6th grade classroom science experiment), 2010-2012

SMARTS Program Mentor (STEM prep for underrepresented students), UCLA School of Engineering, 2007