

STEPHEN E, FICK

US Geological Survey, Southwest Biological Science Center, Moab, UT

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EDUCATION:

Ph.D. in Ecology 2016
University of California, Davis

B.S. Biology, B.A. Archaeology - *Summa cum laude* 2008
Wheaton College; Wheaton, Illinois

APPOINTMENTS:

Postdoctoral Researcher 2018 - present
US Geological Survey, Southwest Biological Science Center, Moab UT
University of Colorado, Boulder and New Mexico State University

Research Fellow 2016 – 2018
Stockholm Environment Institute, Stockholm, Sweden

GRANTS, FELLOWSHIPS AND AWARDS

USGS Land Change Science Grant (\$25,500) 2019
US Geological Survey, Washington DC

NRCS Soil Survey Collaborative Research Grant (\$154,936) 2018
National Resource Conservation Service, Ft. Collins, CO

Henry A. Jastro Research Fellowship (\$2,250) 2014
Ecology Awards Committee, University of California, Davis

Ben A. Madson Scholarship (\$500) 2013
Dept. Plant Sciences, University California, Davis

Ecology Fellowship (\$60,000) 2011
University of California, Davis

Plant Sciences Departmental Assistantship Award (\$30,000) 2012-2013
University of California, Davis

Scholastic Honor Society 2008
Wheaton College; Wheaton, Illinois

PEER-REVIEWED PUBLICATIONS

Fick, S. E., N. Barger, and M. Duniway. 2019. Hydrologic function of rapidly induced biocrusts. *Ecohydrology*: e2089.

Duniway, M. C., A. A. Pfennigwerth, S. E. **Fick**, T. W. Nauman, J. Belnap, and N. N. Barger. 2019. Wind erosion and dust from US drylands: a review of causes, consequences, and solutions in a changing world. *Ecosphere* 10:e02650.

Winkler, D. E., D. M. Backer, J. Belnap, J. B. Bradford, B. J. Butterfield, S. M. Copeland, M. C. Duniway, A. M. Faist, S. E. **Fick**, S. L. Jensen, A. T. Kramer, R. Mann, R. T. Massatti, M. L. McCormick, S. M. Munson, P. Olwell, S. D. Parr, A. A. Pfennigwerth, A. M. Pilmanis, B. A. Richardson, E. Samuel, K. See, K. E. Young, and S. C. Reed. 2018. Beyond traditional ecological restoration on the Colorado Plateau. *Restoration ecology* 26:1055–1060.

- Gardner, T., M. Benzie, J. Börner, E. Dawkins, S. **Fick**, R. Garrett, J. Godar, A. Grimard, S. Lake, R. Larsen, N. Mardas, C. McDermott, P. Meyfroidt, M. Osbeck, M. Persson, T. Sembres, C. Suavet, B. Strassburg, A. Trevisan, C. West, and P. Wolvekamp. 2018. Transparency and sustainability in global commodity supply chains. *World Development*. Hedlund, J., S. Fick, H. Carlsen, and M. Benzie. 2018. Quantifying transnational climate impact exposure: New perspectives on the global distribution of climate risk. *Global Environmental Change* 52:75–85.
- Lusher, L., C. He, and S. **Fick**. 2018. Are professional basketball players reference-dependent? *Applied Economics* 50:3937–3948.
- Morales, L. V., C. S. Sevillano-Rios, S. **Fick**, and T. P. Young. 2018. Differential seedling regeneration patterns across forest–grassland ecotones in two tropical treeline species (*Polylepis* spp.). *Austral Ecology* 43:514–526.
- Fick**, S. E., and R. R. Evett. 2018. Distribution modelling of pre-Columbian California grasslands with soil phytoliths: New insights for prehistoric grassland ecology and restoration. *PloS one* 13:e0194315.
- Fick**, S. E., and R. J. Hijmans. 2017. WorldClim 2: new 1-km spatial resolution climate surfaces for global land areas. *International Journal of Climatology* 37:4302–4315.
- Persson, L., S. Karlsson-Vinkhuyzen, A. Lai, V. Aasa Persson, and S. Fick. 2017. The Globally Harmonized System of Classification and Labelling of Chemicals—Explaining the Legal Implementation Gap. *Sustainability* 9:2176.
- Stuble, K. L., S. E. Fick, and T. P. Young. 2017. Every restoration is unique: testing year effects and site effects as drivers of initial restoration trajectories. *Journal of Applied Ecology* 54:1051–1057.
- Fick**, S. E., C. Decker, M. C. Duniway, and M. E. Miller. 2016. Small-scale barriers mitigate desertification processes and enhance plant recruitment in a degraded semiarid grassland. *Ecosphere* 7:e01354.
- Young, D. J., L. M. Porensky, K. M. Wolf, S. E. Fick, and T. P. Young. 2015. Burning reveals cryptic plant diversity and promotes coexistence in a California prairie restoration experiment. *Ecosphere* 6:1–11.
- Young, T. P., E. P. Zefferman, K. J. Vaughn, and S. Fick. 2015. Initial success of native grasses is contingent on multiple interactions among exotic grass competition, temporal priority, rainfall and site effects. *AoB Plants* 7.
- Zefferman, E., J. T. Stevens, G. K. Charles, M. Dunbar-Irwin, T. Emam, S. Fick, L. V. Morales, K. M. Wolf, D. J. Young, and T. P. Young. 2015. Plant communities in harsh sites are less invaded: a summary of observations and proposed explanations. *AoB Plants* 7.

TEACHING:

Teaching Assistant

University of California, Davis

Multivariate Statistics (<i>Graduate-level</i>)	2015
Quantitative Geography (<i>Graduate-level</i>)	2014, 2015
Principles of Ecology and Evolution	2013, 2014

SELECTED PRESENTATIONS

- Fick, Stephen E.** 2018. Assessing the development and function of rapidly-restored biological soil crusts. Annual Conference of the Society for Ecological Restoration – Southwest Chapter. Flagstaff, AZ
- Fick, Stephen E.** 2018. Rangeland Restoration and Dust Mitigation on the Colorado Plateau. Soil and Water Conservation Society Annual Conference. Albuquerque, NM

Fick, Stephen E. 2017. Distribution Modeling of Pre-Columbian California Grasslands with Soil Phytoliths: New Insights for Restoration and Prehistoric Grassland Ecology. Natural Areas Conference, Ft Collins, CO.

Fick, Stephen E. 2012. Grazing Legacies and Grassland Restoration in Canyonlands National Park. Oral Presentation. Four Corners School field day. July 20, 2012.

Fick, Stephen E. 2008. "Subsistence Strategies for Marginalized Farmers in Northern Thailand". Wheaton College Human Needs Global Resources Symposium.

OUTREACH/ SERVICE

Co- Organizer, Canyon Country Restoration Working Group 2019
Society for Ecological Restoration SW chapter

Treasury Advisory Committee, UC Davis Graduate Student Association 2015

Assistant teacher, The Biology Undergraduate Scholars Program (BUSP) 2015
University of California, Davis (<http://www.busp.ucdavis.edu/>)

- Helped teach a two-week intensive course preparing at-risk students interested in biology for their sophomore-year biology classes.

Mentor, Student and Landowner Education and Watershed Stewardship Program 2011-2016
Center for Land Based Learning, Winters, CA

- Supervise and mentor high-school students in an ongoing local restoration projects
- Facilitate interpretive activities to make connections between day-to-day activities and ecosystem health

Certificate, UC Davis Graduate Teaching Association, "Diversity in the Classroom" 2012
University of California, Davis

Lab Safety Manager 2011-present
Young Lab, UC Davis

Representative, Graduate Student Association 2011-2012
University of California, Davis

Intern, Human Needs Global Resources (HNGR) 2008
Wheaton College; Wheaton, Illinois / Upland Holistic Development project; Fang, Thailand

- Six-month immersive service-learning internship and research project studying poverty and community development in the Global South.

MEDIA

"Climbers Relationship with Place" Interviewed by Kristina Young on KZMU's Science Moab. May 19, 2019. URL: <https://www.kzmu.org/the-science-of-climbing/>

LANGUAGES

Thai, Level: intermediate

R (advanced), **Python** (intermediate), **Javascript** (intermediate), **SQL** (intermediate), **Cypher** (intermediate)