STEPHEN E, FICK

US Geological Survey, Southwest Biological Science Center, Moab, UT **Email:** stephen.fick@gmail.com **Phone:** +1 (530) 737 9833 **Git**: github.com/fickse

EDUCATION:	
Ph.D. in Ecology University of California, Davis	2016
B.S. Biology, B.A. Archaeology - Summa cum laude Wheaton College; Wheaton, Illinois	2008
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	
Subject Matter Expert, Ecology	2017-present
Plant Editors Scientific Editing Service	
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) University of California, Davis	2011
Plant Sciences Departmental Assistantship Award (\$30,000) University of California, Davis	2012-2013
Scholastic Honor Society Wheaton College; Wheaton, Illinois	2008

PEER-REVIEWED PUBLICATIONS

- **Fick**, S. E., J. Belnap, and M. C. Duniway. *In Press*. Grazing-Induced Changes to Biological Soil Crust Cover Mediate Hillslope Erosion in a Long-Term Exclosure Experiment. Rangeland Ecology & Management.
- **Fick**, S. E., N. N. Barger, J. Tatarko, and M. C. Duniway. *In Press*. Induced biological soil crust controls on wind erodibility and dust (PM10) emissions. Earth Surface Processes and Landforms.
- **Fick**, S. E., N. Barger, and M. Duniway. 2019. Hydrological 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. Pfenningwerth, 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.
- 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.
- **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, \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

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 Society for Ecological Restoration SW chapter	2019
Treasury Advisory Committee, UC Davis Graduate Student Association	2015
Assistant teacher, The Biology Undergraduate Scholars Program (BUSP) University of California, Davis (http://www.busp.ucdavis.edu/)	2015

• 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
Young Lab, UC Davis

Representative, Graduate Student Association

2011-2012

University of California, Davis

Intern, Human Needs Global Resources (HNGR)

2008

Upland Holistic Development project; Fang, Thailand / Wheaton College; Wheaton, Illinois

• 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

 ${f R}$ (advanced), ${f Python}$ (intermediate), ${f Javascript}$ (intermediate), ${f SQL}$ (intermediate), ${f Cypher}$ (intermediate)