

# Daniel T. Stark

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## Education

- 2012 University of California, Berkeley  
M.S. Environmental Science, Policy, and Management. Emphasis: fire science, forest insects and disease
- 1995 University of California, Berkeley  
B.S. Conservation and Resource Studies. Emphasis: forest conservation  
Minor Forestry

## Assignment

*Assistant Professor of Practice – Clatsop, Tillamook, and Lincoln Counties*  
Oregon State University, College of Forestry, Forestry and Natural Resources Extension  
Start Date: July 10, 2019

## Research and Professional Experience

*Staff Research Associate II*

*California Oak Mortality Task Force North Coast Outreach Coordinator* April 2013 – present  
UC Cooperative Extension-Humboldt/Del Norte counties

- Extend forest health educational content to tribes, agencies, land managers, private landowners, and the broader public, particularly on the forest pathogen sudden oak death and other forest health issues affecting California's north coastal forests.
- Investigate and diagnose forest health issues throughout north coastal California; coordinate monitoring and management efforts with multi-stakeholders; prepare pest distribution maps; extend information to land management agencies, policy makers, academics, tribes, and regional clientele.

*Independent Contractor*

June – October 2018

Spatial Informatics Group

- Compiled research on forest fuel treatments that modify the frequency, intensity, size, and duration of bark beetle incidence in California while influencing effectiveness for climate change mitigation.
- Published findings as part of a research team for *California's Fourth Climate Change Assessment*.

*Lecturer*

January – March 2014

Humboldt State University

Undergraduate course: Forestry 222-Forest Health and Protection

- Lectured on the topics of general ecology, forest insects, forest pathogens, and forest health management for 55 undergraduate students.
- Prepared all course materials including course content, syllabus creation, lecture materials, and PowerPoint presentations.
- Conducted weekly laboratory component including insect and pathogen identification and three field trips.
- Assessed students' learning skills and evaluated their performance on all exams, papers, and final projects.

*Co-Facilitator*

July 2014

Forestry Institute for Teachers, Humboldt County

- Co-facilitated a workshop for K-12 teachers to provide tools and knowledge for teaching their students about forest ecology and management. Other subjects included wildlife biology, climate change impacts on forests, industrial and non-industrial forestry perspectives, and tribal perspectives on forest management.

*Lecturer and Discussion Facilitator*

August - December 2010

Environmental Science, Policy, and Management 50AC: Introduction to Culture and Natural Resources

U.C. Berkeley Extension, Fall Program for Freshman

- Lectured for an American Cultures course of 160 first semester freshman students (2 lectures, 6 discussion sections) including preparation of all lecture materials and PowerPoint presentations.
- Developed multi-media content to inspire and engage students with a diversity of learning styles.
- Assessed students' learning skills and evaluated their performance on all exams, papers, and final projects.

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## Graduate Student Instructor and Discussion Facilitator

Fall 2007 – Summer 2012

University of California, Berkeley

Undergraduate courses: Intro to Culture and Natural Resources; Wildland Fire Science; and American Forests

- Planned and facilitated discussion sections of 20 - 30 undergraduate students each.
- Developed section lesson plans that encouraged and fostered critical thinking and analytical skills from students.
- Instructed and trained fire science students on fire modeling including the programs FARSITE, BehavePlus, FlamMap, FireFamily Plus, FOFEM, and NEXUS.
- Assessed students' learning skills and evaluated their performance on all exams, papers, and final projects.

## Field and Laboratory Assistant

January 2000 – August 2002

University of California, Berkeley

Provided expertise and field assistance for long-term ecological studies that focused on the disease progression of sudden oak death throughout Marin, Alameda, Contra Costa, and Santa Cruz counties, and also for pitch canker on Monterey pines and other California coastal coniferous host species in Monterey and Santa Cruz Counties.

Sudden oak death (causal agent *Phytophthora ramorum*):

- Established transects and sampled for *Phytophthora ramorum* using the point-quarter method across China Camp State Park, Tilden Regional Park, and Soquel Demonstration State Forest.
- Collected tissue samples from symptomatic oaks for lab verification of *Phytophthora ramorum*.
- Conducted inoculation trials and subsequent monitoring of disease progression in Briones Regional Park and within Marin Open Space lands in Novato, CA.
- Assessed disease progression in permanent plots in Marin Municipal Water District and China Camp State Park.
- Monitored insect traps for saprotrophic insects and collected specimens for attraction studies in Marin Municipal Water District and China Camp State Park.

Pitch canker (causal agent *Fusarium circinatum*):

- Monitored disease progression in permanent plots located within private forests of the Del Monte Forest Foundation and the Pebble Beach Company in Monterey County, California.
- Performed field- and lab-based insect vector trials that included the collection and subsequent rearing of live insects and culturing of *Fusarium circinatum*.
- In charge of lab procedures including rearing twig beetles, preparing pathogen cultures, and chemical inventories.

## Groups and Associations

Association of Natural Resource Extension Professionals, National Society of American Foresters, California Forest Pest Council, California Oak Mortality Task Force, Pitch Canker Task Force, Port-Orford-Cedar Task Force, Xi Sigma Pi-Theta chapter, California Alumni Foresters.

## Publications

Moghaddas, Jason J., Roller, Gary B., Long, Jonathan W., Saah, David S., Moritz, Max A., **Stark, Dan T.**, Schmidt, David A., Buchholz, Thomas, Freed, Travis J., Alvey, Erin C., and Gunn, John S. 2018. Fuel Treatment for Forest Resilience and Climate Mitigations: A Critical Review for Coniferous Forests of the Sierra Nevada, Southern Cascade, Coast, Klamath, and Transverse Ranges. California Natural Resources Agency. Publication number: CCCA4-CNRA-2018-017.

Lee, Chris, Valachovic, Yana, **Stark, Daniel**. 2017. The Political Ecology of Forest Health in the Redwood Region, 333-341, in Standiford, R. B.; Valachovic, Y., tech cords. 2017. Coast redwood science symposium—2016: Past successes and future direction. Proceedings of a workshop. Gen. Tech. Rep. PSW-GTR-258. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 446 pp.

Stark, Daniel T., Wood, David L., Storer, Andrew J., Stephens, Scott L. 2013. Prescribed fire and mechanical thinning effects on bark beetle caused tree mortality in a mid-elevation Sierran mixed-conifer forest. *Forest Ecology and Management* 306:61-67.