

Rebecca Bewley Wayman

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EDUCATION

- 2005** **Master of Science**, Ecology, University of California, Davis
- 1999** **Bachelor of Science**, Conservation and Resource Studies, minor in Forestry, University of California, Berkeley (High Honors)
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PROFESSIONAL SUMMARY

- 2015 – Present** **Associate Specialist** at the University of California, Davis, Department of Environmental Science and Policy, Hugh Safford lab, conducting research and monitoring related to forest and fire ecology
- 2005 – 2014** **Senior Biologist** at Vollmar Natural Lands Consulting, an environmental consulting company specializing in preserve land establishment and stewardship and natural resource assessment
- 2006 – 2007** **Botanist** with the US Forest Service Adaptive Management Services Enterprise Team based in Nevada City, CA
- 2005 – 2006** **Botanist** at North Fork Associates, an environmental consulting company specializing in natural resource assessment
- 2002 – 2005** **Graduate Student Research Biologist** with the US Forest Service Sierra Nevada Research Center
- 2001 – 2002** **Biological Science Technician (Botany)** on the US Forest Service Stanislaus National Forest, Groveland Ranger District
- 2001** **Marine Educator** with the Marine Science Institute, a non-profit youth educational center on the San Francisco Bay
- 1998 – 1999** **Laboratory Assistant (Entomology)** with the UC Berkeley Center for Biological Control
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PUBLICATIONS

Peer Reviewed:

- 2021** **Wayman RB**, and Safford, HD. Recent bark beetle outbreaks influence wildfire severity in mixed-conifer forests of the Sierra Nevada, California, USA. *Ecological Applications*. doi:10.1002/eap.2287

- 2019** Axelson J, Battles J, Bulaon B, Cluck D, Cousins S, Cox L, Estes B, Fettig C, Hefty A, Hishinuma S, Hood S, Kocher S, McMahon D, Mortenson L, Koltunov A, Kuskulis E, Poloni A, Ramirez C, Restaino C, Safford H, Slaton M, Smith S, Tubbesing C, **Wayman R**, Young D. 2019. The California Tree Mortality Data Collection Network — Enhanced communication and collaboration among scientists and stakeholders. *California Agriculture* 73(2):55-62.
- 2018** Stephens SL, Collins BM, Fettig CJ, Finney MA, Hoffman CM, Knapp EE, North MP, Safford H, **Wayman RB**. 2018. Drought, Tree Mortality, and Wildfire in Forests Adapted to Frequent Fire. *Bioscience* 68:77-88.
- 2007** **Wayman RB**, and North M. 2007. Initial response of a mixed-conifer understory plant community to burning and thinning restoration treatments. *Forest Ecology and Management* 239: 32-44.

In Revision, Review, or Preparation:

Other Reports:

- 2018** **Wayman, R.**, and C. Levine. 2018. Associating water depth, water duration, and vegetation dominance to predict Yosemite toad breeding site suitability. Technical report to USDA Forest Service Pacific Southwest Region.

GRANTS AND CONTRACTS

- 2019-2023** Cal Fire California Climate Investments Forest Health Program: Effects of salvage logging on the resilience and successional trajectory of high-mortality forests. \$457,596
- 2019-2021** Amador Calaveras Consensus Group: Red fir ecological and forest health monitoring. \$6,500
- 2016-2020** US Forest Service Region 5 Ecology Program: Red fir ecological and forest health monitoring. \$5,000
- 2016-2020** Amador Calaveras Consensus Group: Red fir ecological and forest health monitoring. \$24,000

PRESENTATIONS

- 2020** **Wayman, R.** Recent bark beetle outbreaks influence wildfire severity in mixed-conifer forests of the Sierra Nevada, California, USA. Pre-recorded virtual presentation and participation as a panelist in a live “Stewardship Circle” at the *Natural Areas Conference*, originally planned for Reno, NV.
- 2020** **Wayman, R.** Introduction to fire history and forest ecology of western Nevada County. Presentation at the *Women’s Land Stewardship Workshop*, hosted by Yuba Watershed Institute and Mud and Pearls, Nevada City, CA.

- 2019** **Wayman, R.**, and H. Safford. Recent bark beetle outbreaks and subsequent wildfire severity in mixed-conifer forests of the Sierra Nevada, California, USA. Presentation at the *Association for Fire Ecology 8th Annual Fire Congress*, Tucson, AZ.
- 2019** **Wayman, R.**, and H. Safford. Effects of bark beetle and drought induced tree mortality on wildfire severity in the Sierra Nevada. Presentation at the *Sierra Nevada Tree Mortality Data Network Workshop*, McClellan, CA.
- 2018** **Wayman, R.**, and H. Safford. Recent bark beetle outbreaks and subsequent wildfire severity in mixed-conifer forests of the Sierra Nevada, California, USA. Presentation at the *Sequoia Kings Canyon Science Symposium*, Three Rivers, CA.
- 2018** **Wayman, R.**, and H. Safford. Recent bark beetle outbreaks and subsequent wildfire severity in mixed-conifer forests of the Sierra Nevada, California, USA. Presentation at the *MedPine6 International Mediterranean Forest Ecosystems Conference*, presented by Dr. Hugh Safford, Rehovot, Israel.
- 2017** **Wayman, R.**, and H. Safford. An exploration of the relationship between recent bark beetle outbreaks and subsequent wildfire severity in mixed-conifer forests of the Sierra Nevada, California. Poster presentation at the *Ecological Society of America annual meeting*, Portland, OR.
- 2017** **Wayman, R.**, and H. Safford. Effects of bark beetle and drought induced tree mortality on wildfire severity in the Sierra Nevada. Field based presentation and discussion at the *Sierra Nevada Fire Science Retreat*, Sequoia National Forest, CA.
- 2017** **Wayman, R.** Forest structure, health, and fuels monitoring within multiple red fir vegetation management projects. Presentation at the *Amador Calaveras Consensus Group Monitoring Symposium*, Jackson, CA.
- 2014** **Wayman, R.** Habitat requirements, breeding dynamics, and migration patterns of the California tiger salamander (*Ambystoma californiense*), and system-wide hydrology of northern hardpan vernal pool complexes. Presentation to a four-agency panel reviewing a mitigation project proposal. Sacramento, CA.
- 2014** **Wayman, R.** Overview of local sensitive biological resources, relevant laws and codes, and agency jurisdiction. Presentations to *City of Roseville Public Works and Open Space Divisions*, Roseville, CA (annually, 2011-2014).
- 2004** **Wayman, R.**, and M. North. 2004. Initial response of a mixed-conifer understory plant community to burning and thinning restoration treatments. Poster presentation at the *Ecological Society of America annual meeting*, Portland, OR.

MEDIA

- 2021** Interviewed by KKOH Reno's Daniela Sonnino for short news segment on tree mortality and wildfire severity.
- 2019** Interviewed twice by *Wired Magazine* for a piece covering tree mortality and projected future wildfire severity (not yet published).

UNIVERSITY AND PUBLIC SERVICE

- Jan 2020 – present** UC Davis Graduate Group in Ecology Diversity Committee Member
- Jul 2020 – present** UC Davis Graduate Group in Ecology Diversity, Equity, and Inclusion Task Force Member (July 2020 - present)
- Jan 2019 – present** California Fire Science Consortium, Sierra Nevada Section co-coordinator
- 2018** Co-chair of the May 2018 symposium titled *Living with Fire in California's Coast Ranges: Promoting Fire-Resilient Communities and Landscapes in an Era of Global Change* (400+ participants)
- 2016** Program Committee co-chair for the October 2016 Natural Areas Conference, *Climate Change Adaptation and Natural Areas Management: Turning Words into Action* (600+ participants)

EXTRACURRICULAR SERVICE

- 2016 – present** Coach of recreational and competitive youth soccer teams
- 2013 – 2018** Twin Ridges Elementary School District Board of Trustees (Member, 2013 – 2016, President, 2016 – 2018)
- 2011 – 2017** Volunteer biologist for the Oak Tree Community Park and Recreation District, Nevada County, CA. Conducted field surveys for and prepared the park's Wetland Delineation Report and the Biological Resources Report and Management Plan. Coordinated the biological permitting process with the Nevada County Planning Department.
- 2013 – 2015** Volunteer biologist with the Bear Yuba Land Trust. Conducted field surveys and submitted floristic inventory lists on three preserves in support of baseline conditions and/or annual monitoring reports.
- Jan – Mar 2005** Classroom aide and tutor in a rural elementary school with the organization La Esperanza Granada, Nicaragua
- 1994** Community health volunteer for eight weeks in rural Paraguayan town of 26 households with Amigos de las Americas

MEMBERSHIPS

- Association for Fire Ecology
- Ecological Society of America
- California Native Plant Society
- Bear Yuba Land Trust
- South Yuba River Citizens League

ADDITIONAL TRAINING AND PERMITS

- Software Carpentry: Reproducible Scientific Research with R
- Fire Fighter Type 2 – current
- Branchiopods of CA, OR, and WA: Ecology, Conservation, and Identification
- Wetland Plants of the Lower Sacramento Valley
- California Red-Legged Frog Ecology and Conservation
- Measuring and Monitoring Plant Populations
- Poaceae – Grasses of California
- Vernal Pool Floristics
- Ecology and Management of Medusahead and Barbed Goatgrass
- Previously held federal permits to survey for listed large branchiopods and California tiger salamander