

# Curriculum Vitae

## Jens T. Stevens

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### Education

- 2009-2014 Ph.D. in Ecology, University of California, Davis  
Dissertation: Climate, fire and forest management in the Sierra Nevada: Interactions and effects on understory structure and diversity.  
Degree Certificate: Conservation Management
- 2006-2008 M.S. in Plant Biology, University of Vermont  
Thesis: The role of fire disturbance in the invasion of south Florida pine savannas by Brazilian pepper (*Schinus terebinthifolius*)
- 2002-2006 B.A. in Biology, Carleton College, *Magna cum laude* with distinction
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### Professional Appointments

- 2016-present **Postdoctoral Research Scholar**, Department of Environmental Science Policy and Management, University of California Berkeley.  
Supervisor: Dr. Scott L. Stephens
- 2014-2016 **Postdoctoral Research Scholar**, John Muir Institute of the Environment, University of California, Davis.  
Supervisor: Dr. Malcolm P. North
- 2009-2014 **Graduate Research Assistant**, Graduate Group in Ecology and Department of Plant Sciences, University of California, Davis.  
Advisor: Dr. Andrew M. Latimer
- 2008-2009 **Research Assistant**, Dartmouth College.  
Supervisor: Dr. Rebecca E. Irwin
- 2006-2008 **Graduate Research Assistant**, Department of Plant Biology, University of Vermont  
Advisor: Dr. Brian Beckage
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## Peer-Reviewed Publications

- Stevens, J. T.**, B. M. Collins, J. D. Miller, M. P. North, and S. L. Stephens. 2017. Changing spatial patterns of stand-replacing fire in California conifer forests. *Forest Ecology and Management* 406: 28-36.
- Safford, H.D. and **Stevens, J.T.** 2017. Natural Range of Variation (NRV) for yellow pine and mixed conifer forests in the Sierra Nevada, southern Cascades, and Modoc and Inyo National Forests, California, USA. General Technical Report PSW-GTR-256. Albany, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Research Station. 229 p.
- Stevens, J. T.** 2017. Scale-dependent effects of post-fire canopy cover on snowpack depth in montane coniferous forests. *Ecological Applications* 27: 1888-1900.
- Collins, B. M., **J. T. Stevens**, J. D. Miller, S. L. Stephens, P. M. Brown, and M. P. North. 2017. Alternative characterization of forest fire regimes: incorporating spatial patterns. *Landscape Ecology* 32: 1543-1552.
- Young, D. J. N.\*, **J. T. Stevens\***, J. M. Earles\*, J. Moore, A. Ellis, A. L. Jirka, and A. M. Latimer. 2017. Long-term climate and competition explain forest mortality patterns under extreme drought. *Ecology Letters* 20: 78-86. \* *equal contribution*.
- Stevens, J. T.**, B. M. Collins, J. W. Long, M. P. North, S. J. Prichard, L. W. Tarnay, and A. M. White. 2016. Evaluating potential trade-offs among fuel treatment strategies in mixed-conifer forests of the Sierra Nevada. *Ecosphere* 7: e01445.
- Stevens, J. T.**, H. D. Safford, M. P. North, J. S. Fried, A. N. Gray, P. M. Brown, C. R. Dolanc, S. Z. Dobrowski, D. A. Falk, C. Farris, J. F. Franklin, P. Z. Fulé, R. K. Hagmann, E. E. Knapp, J. D. Miller, G. F. Smith, T. W. Swetnam, and A. H. Taylor. 2016. Average stand age from forest inventory plots does not describe historical fire regimes in ponderosa pine and mixed-conifer forests of western North America. *PLoS One* 11: e0147688.
- Stevens, J. T.**, H. D. Safford, S. P. Harrison and A. M. Latimer. 2015. Forest disturbance accelerates thermophilization of understory plant communities. *Journal of Ecology* 103: 1253-1263.
- Winford, E.M., **J. T. Stevens**, and H. D. Safford. 2015. Effects of fuel treatments on California mixed-conifer forests. *California Agriculture* 69: 75-81.
- Zefferman, E., **J. T. Stevens**, G. K. Charles, M. Dunbar-Irwin, T. Emam, S. Fick, L. Morales, K. M. Wolf, D. J. N. Young, and T. P. Young. 2015. Plant communities in harsh sites are less invaded: a summary of observations and proposed explanations. *AoB Plants* 7: plv056.
- Stevens, J. T.** and A. M. Latimer. 2015. Snowpack, fire, and forest disturbance: interactions affect montane invasions by non-native shrubs. *Global Change Biology* 21: 2379–2393.

## Peer-Reviewed Publications, cont.

**Stevens, J. T.**, H. D. Safford, and A. M. Latimer. 2014. Wildfire-contingent effects of fuel treatments can promote ecological resilience in dry mixed conifer forests. *Canadian Journal of Forest Research* 44: 843-854. **Editor's Choice- Featured Paper.**

Safford, H. D., **J. T. Stevens**, K. Merriam, M. D. Meyer, and A. M. Latimer. 2012. Fuel treatment effectiveness in California yellow pine and mixed conifer forests. *Forest Ecology and Management* 274: 17-28.

**Stevens, J. T.** and B. Beckage. 2010. Demographic responses of Brazilian pepper (*Schinus terebinthifolius*) to pine savanna fires. *Natural Areas Journal* 30: 500-510.

**Stevens, J. T.** and B. Beckage. 2009. Fire feedbacks facilitate invasion of pine savannas by Brazilian pepper (*Schinus terebinthifolius*). *New Phytologist* 184: 365-375.

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## Awards and Grants

- 2016 Finalist, AAAS Science & Technology Policy Fellowship
- 2015 Co-Investigator, US Forest Service Pacific Southwest Research Station Grant. Post-fire forest management on the King Fire (\$130,000). With E. E. Knapp, M. P. North, M. Johnson, M. W. Ritchie, S. M. Bisbing.
- 2014 PI, Joint Fire Science Program (JFSP) Graduate Research Grant, fuel treatment and fire effects on snowpack (\$25,000). With A. M. Latimer.
- 2013 G.A. Harris Research Grant, Decagon Inc. (\$5,000)
- 2012 Achievement Rewards for College Scientists Fellowship (\$20,000)
- 2011 Mathias Graduate Student Research Grant (\$2,470)
- 2011 Northern California Botanists Research Grant (\$1,000)
- 2010 Jastro Shields Research Grant, UC Davis (\$2,000, renewed twice)
- 2009 Graduate Group in Ecology Fellowship, UC Davis
- 2009 Plant Sciences Fellowship, UC Davis
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## Conference Proceedings

**Stevens, J. T.**, H. D. Safford, S. Harrison, and A. M. Latimer. 2015. Wildfire interactions with fuel treatments in Sierra Nevada forests: consequences for forest structure and understory plant diversity Page 343 in Proceedings of the large wildland fires conference; May 19-23, 2014; Missoula, MT. USDA Forest Service, Rocky Mountain Research Station, Fort Collins CO. Proceedings RMRS-P-73.

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## Conference Presentations

\* Only those as presenting author are listed. All presentations are oral presentations unless specified.

- Stevens, J.T.** November 2017. The spatial scale of stand-replacing fire: mapping and measuring effects. **Invited presentation**, *7<sup>th</sup> International Fire Ecology and Management Congress*, Orlando, FL.
- P. Fornwalt and **J. T. Stevens**. November 2017. Understory thermophilization following the 2002 Hayman Fire. *7<sup>th</sup> International Fire Ecology and Management Congress*, Orlando, FL.
- Stevens, J. T.**, B.M. Collins, J. Long, M.P. North, S. Prichard, L.W. Tarnay, A.M. White. October 2017. Evaluating potential trade-offs among fuel treatment strategies in mixed-conifer forests of the Sierra Nevada. *44<sup>th</sup> Natural Areas Conference*, Fort Collins, CO.
- Stevens, J. T.**, and P. Fornwalt. October 2017. Understory thermophilization following the 2002 Hayman Fire. *44<sup>th</sup> Natural Areas Conference*, Fort Collins, CO.
- Earles, J. M., **J. T. Stevens**, O. Sperling, J. Orozco, M. P. North, M. Zwieniecki. August 2017. Mid-winter drought coincided with an abrupt decline in tree hydraulic and carbohydrate status. *102<sup>nd</sup> Annual Meeting of the Ecological Society of America*, Portland, OR.
- Stevens, J. T.**, B. M. Collins, J. D. Miller, P. M. Brown, M. P. North, and S. L. Stephens. August 2017. An alternative characterization of forest fire regimes: incorporating spatial patterns of stand-replacing patches. *102<sup>nd</sup> Annual Meeting of the Ecological Society of America*, Portland, OR.
- Stevens, J. T.** March 2017. Understory vegetation responses to fire and forest management in California mixed-conifer forests. Invited presentation, *88<sup>th</sup> Annual Meeting of the Northwest Scientific Association*, Ashland, OR.
- Stevens, J. T.** and M. M. Kling. August 2016. The biogeography of fire regimes: A trait-based approach. *101<sup>st</sup> Annual Meeting of the Ecological Society of America*, Ft. Lauderdale, FL.
- Stevens, J. T.** November 2015. Multi-scale effects of fire severity on snowpack dynamics in montane coniferous forest. *6<sup>th</sup> International Fire Ecology and Management Congress*, San Antonio, TX.
- Stevens, J. T.** September 2015. Snowpack, fire, and forest disturbance: interactions affect montane invasions by non-native plants. *13<sup>th</sup> International Conference on Ecology and Management of Alien Plant Invasions*, Waikoloa, HI.
- Stevens, J. T.** August 2015. Multi-scale effects of fire severity on snowpack dynamics in montane coniferous forest. *100<sup>th</sup> Annual Meeting of the Ecological Society of America*, Baltimore, MD.
- Stevens, J. T.**, H. D. Safford, S. P. Harrison and A. M. Latimer. August 2014. Disturbance regimes and “thermophilization” of understory plant communities. *99<sup>th</sup> Annual Meeting of the Ecological Society of America*, Sacramento, CA.

## Presentations, cont.

- Stevens, J. T.**, H. D. Safford, S. P. Harrison and A. M. Latimer. May 2014. Wildfire Interactions With Fuel Treatments in Sierra Nevada Forests: Consequences for Forest Structure and Understory Plant Diversity. *Large Wildland Fire Conference*, Missoula, MT.
- Stevens, J. T.**, R. A. York and A. M. Latimer. August 2013. Effects of winter snowpack, fire and forest structure on invasive plant establishment. *98<sup>th</sup> Annual Meeting of the Ecological Society of America*, Minneapolis, MN.
- Stevens, J. T.**, H. D. Safford and A. M. Latimer. October 2012. Fuel treatment impacts on post-wildfire dynamics in dry conifer forests of California. *AMNH Student Conference on Conservation Science*, New York NY.
- Stevens, J. T.**, H. D. Safford and A. M. Latimer. August 2012. Fuel treatment impacts on wildfire severity and plant communities in dry mixed conifer forests of California. *97<sup>th</sup> Annual Meeting of the Ecological Society of America*, Portland, OR.
- Stevens, J. T.** and A. M. Latimer. February 2012. Invasion dynamics of Scotch and Spanish broom at the range margin. **Invited presentation**, *Annual Blodgett Forest Research Symposium*, Quintette, CA.
- Stevens, J. T.**, H. D. Safford and A. M. Latimer. August 2010. Fuel treatment effects on wildfire severity in the Sierra Nevada of California. Poster presentation. *95<sup>th</sup> Annual Meeting of the Ecological Society of America*, Pittsburgh, PA.
- Stevens, J. T.** and B. Beckage. August 2008. Fire suppression and invasion by Brazilian pepper in Florida pine savannas. Poster presentation. *93<sup>rd</sup> Annual Meeting of the Ecological Society of America*, Milwaukee, WI.
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## Invited Seminars

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| 2018 | UC Berkeley Environmental Science Policy and Management, Departmental Seminar Series |
| 2017 | UC Berkeley Forestry Seminar Series.   |
| 2017 | US Forest Service Prescribed Fire Training (RX 310)                                  |
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## Teaching and Mentoring Experience

### Post-doctoral (UC Berkeley)

2016-2017     **Invited Guest Lecturer**, Fire Ecology seminar (ESPM 265), UC Berkeley

### Post-doctoral (UC Davis)

2016            **Instructor of Record**, Fire Ecology (ESM 141), UC Davis

2015            **Invited Guest Lecturer**, Fire Ecology Seminar, UC Berkeley

2015            **Invited Guest Lecturer**, Silviculture, UC Davis

### Graduate (UC Davis)

2013            **Guest Lecturer**, Fire Ecology seminar (ESPM 265), UC Berkeley

2013            **Guest Lecturer**, Plant Communities of California

2013            **Teaching Assistant**, Fire Ecology

2012-2013     **Teaching Assistant**, Plant Communities of California

2010-2014     **Mentor** to 9 undergraduates in lab and field projects

2010-15        **Environmental education mentor** for high school students with Center for Land Based Learning, Winters CA

### Graduate (University of Vermont)

2007-2008     **Teaching Assistant**, Ecology and Evolutionary Biology

2007            **Finalist**, Graduate Teaching Assistant of the Year

2006-2007     **Teaching Assistant**, Genetics

### Carleton College

2006            **Teaching Assistant**, Population Ecology

2005            **Teaching Assistant**, Ecosystem Ecology

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## Leadership and Professional Service

- 2017 Organizer, California Fire Science Retreat (Kings Canyon National Park)
- 2017 Outreach Committee member, Association for Fire Ecology
- 2016 Organizer, California Fire Science Retreat (Yosemite National Park)
- 2016 Conference organizing committee member, Natural Areas Conference
- 2016 Review panel, UCD Postdoctoral Scholars Travel Award Program (Travel Award recipient, 2015)
- 2015 Guest lecturer/field trip leader, ESA SEEDS program, UC Davis chapter
- 2015 Panelist, Organized Session *Fire and Native Plants*; annual meeting of the California Native Plant Society
- 2014 Organizer, Organized Oral Session *Experimental Forests and Ranges as a Research Network*; annual meeting of the Ecological Society of America
- 2013 Recipient of Hillyer Award for Service to Graduate Group in Ecology
- 2013 Co-Chair, Graduate Student Symposium in Ecology, UC Davis
- 2013 Reviewer, Mathias Student Research Grant committee
- 2012-2014 Student representative, UC Davis Graduate Group in Ecology executive council.
- 2012-2014 Student admissions assistant, UC Davis Graduate Group in Ecology
- 2010 Created course “California’s Dynamic Forests”, an invited-speaker seminar course at UC Davis
- 2009-2013 Graduate Students Association representative, UC Davis
- 2009-2011 Co-Chair of UC Davis Ecology Graduate Student Association
- 2007-2008 Vermont Graduate Student Senate Executive Council member, elected Public Relations Director

### Peer reviewer for the following journals:

*Biodiversity and Conservation, Biological Invasions, Conservation Letters, Ecology (3), Forest Ecology and Management (3), Forests, Frontiers in Ecology and the Environment, Geosciences, Global Change Biology, Journal of Applied Ecology, Journal of Ecology, Landscape Ecology, New Phytologist, Oecologia, PLOS One*

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