

Chris Guiterman

Research Scientist

Professional preparation

- 2016 Ph.D, University of Arizona, School of Natural Resources and the Environment, Tucson, AZ.
- 2009 M.S, University of Maine, Orono, School of Forest Resources, Orono, ME.
- 2005 B.A, Bates College, Geology Department, Lewiston, ME.

Appointments and positions

- 2017– Research Scientist, Laboratory of Tree-Ring Research, University of Arizona, Tucson, AZ.
- 2010–2016 Graduate Research Associate; Course Instructor; Teaching Assistant, University of Arizona, Tucson, AZ.
- 2007–2009 Graduate Research Assistant; Teaching Assistant, University of Maine, Orono, ME.
- 2005–2007 Forest Inventory Technician, Camp II Forest Management, Joseph, OR.

Products

5 most closely related to the proposed project:

- 2020 MT Rother, JM Huffman, CH Guiterman, KM Robertson, N Jones, A history of recurrent, low-severity fire without fire exclusion in southeastern pine savannas, USA, *Forest Ecology and Management* 118406.
- 2019 CH Guiterman, EQ Margolis, CH Baisan, DA Falk, CD Allen, and TW Swetnam, Spatiotemporal variability of human-fire interactions on the Navajo Nation, *Ecosphere* 10 (11), e02932.
- 2019 CH Guiterman and EQ Margolis, Vulnerabilities of Navajo Nation Forests to Climate Change, Final Report to the Bureau of Indian Affairs and Navajo Nation https://chguiterman.github.io/Nav_report/.
- 2018 SB Malevich, CH Guiterman, and EQ Margolis, burnr: Fire history analysis and graphics in R, *Dendrochronologia* 49, 9-15.
- 2018 CH Guiterman, EQ Margolis, CD Allen, DA Falk, and TW Swetnam, Long-term persistence and fire resilience of oak shrubfields in dry conifer forests of northern New Mexico, *Ecosystems* 21 (5), 943-959.

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5 other significant products:

- 2020 S Klesse, RJ DeRose, F Babst, B Black, L Anderegg, J Axelson, A Ettinger, H Griesbauer, C Guiterman, G Harley, J Harvey, YH Lo, A Lynch, C O'Connor, C Restaino, D Sauchyn, J Shaw, D Smith, J Villanueva-Diaz, L Wood, and M Evans, Continental-scale tree-ring based projection of Douglas-fir growth – Testing the limits of space-for-time substitution, *Global Change Biology* 26(9), 5146-5163.
- 2020 CH Guiterman, CH Baisan, NB English, J Quade, JS Dean, and TW Swetnam, Convergence of Evidence Supports a Chuska Mountains Origin for the Plaza Tree of Pueblo Bonito, Chaco Canyon, *American Antiquity* 85 (2), 331-346.
- 2016 PW Brewer, CH Guiterman, A new digital field data collection system for dendrochronology, *Dendrochronologia* 38, 131-135.
- 2016 CH Guiterman, TW Swetnam, JS Dean, Eleventh-century shift in timber procurement areas for the great houses of Chaco Canyon, *Proceedings of the National Academy of Sciences* 113 (5), 1186-1190.
- 2015 CH Guiterman, EQ Margolis, and TW Swetnam, Dendroecological methods for reconstructing high-severity fire in pine-oak forests, *Tree-Ring Research* 71 (2), 67-77.

Synergistic activities

- 2019 Co-organizer of a southwestern regional workshop, 'Healthy Forests–Healthy Watersheds: Enabling a cultural shift toward understanding the beneficial aspects of forest fire in a changing climate'. We have invited representatives of Tribal natural and cultural resource departments from throughout the region to share their experiences with a group of select resource managers and scientists from academic and government institutions. The workshop consists of talks and break-out sessions to improve understanding and discourse regarding on-the-ground impacts of climate change to cultural landscapes, and adaptation approaches and solutions to solve and mitigate them..
- 2018 Organized a week-long Navajo Forests Tour for which I invited Tribal resource managers and regional scientists, especially young Native scholars. The tour was attended by 50 participants representing 19 academic, government, and Tribal institutions. Each day we travelled to different areas of the Navajo forest to examine and discuss climate-related changes to the ecosystem.
- 2010 - I have engaged thousands of visitors to the Laboratory of Tree-Ring Research that attend bi-weekly and special-event docent tours (The lab hosts roughly 12,000 visitors per year). I have also given public lectures at the lab, the university, and at National Park Service visitors' centers. Finally, I have taught three multi-week intensive field courses in dendrochronology, both at the University of Arizona and at the North American Dendroecological Fieldweek.

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