

Larissa L. Yocom
Assistant Professor, Fire Ecology
Department of Wildland Resources, Utah State University
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EDUCATION

Ph.D., 2011, Forest Ecology. Northern Arizona University School of Forestry.
M.E.Sc., 2006, Environmental Science. Yale School of Forestry & Environmental Studies.
B.A., 1999, Public Policy Analysis/Biology, Pomona College.

PROFESSIONAL EXPERIENCE

2017 – present	Assistant Professor, Department of Wildland Resources and Ecology Center, Utah State University
2016 – 2017	Research Associate and Postdoctoral Scholar, School of Informatics, Computing, and Cyber Systems, Northern Arizona University
2012 – 2017	Research Associate & Instructor, School of Forestry, Northern Arizona University
2011 – 2012	Lecturer, School of Forestry, Northern Arizona University

PUBLICATIONS

Peer-reviewed journal articles

15. **Yocom Kent, L.L.**, P.Z. Fulé, P.M. Brown, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña, S.A. Drury, D.A. Falk, J. Meunier, H.M. Poulos, C.N. Skinner, S.L. Stephens, J. Villanueva-Díaz. 2017. Climate drives fire synchrony but local factors control fire regime change in northern Mexico. *Ecosphere* 8(3): Article e01709.
14. Kalies, E.L. and **L.L. Yocom Kent**. 2016. Tamm Review: Are fuel treatments effective at achieving ecological and social objectives? A systematic review. *Forest Ecology and Management* 375: 84-95.
13. **Yocom Kent, L.L.**, P.Z. Fulé, W.A. Bunn, and E.G. Gdula. 2015. Historical high-severity fire patches in mixed-conifer forests. *Canadian Journal of Forest Research* 45(11): 1587-1596.
12. **Yocom Kent, L.L.**, and P.Z. Fulé. 2015. Do rules of thumb measure up? Characteristics of fire-scarred trees and samples. *Tree-Ring Research* 71(2): 78-82.
11. **Yocom Kent, L.L.**, K.L. Shive, C.H. Sieg, M.E. Hunter, C. Stevens-Rumann, and P.Z. Fulé. 2015. Interactions of fuel treatments, wildfire severity, and carbon dynamics. *Forest Ecology & Management* 349: 66-72.

10. Villanueva Díaz, J., J. Cerano Paredes, P.Z. Fulé, C. Cortés Montaña, L. Vásquez Selem, **L.L. Yocom**, and J.A. Ruiz-Corral. 2015. [Translation from Spanish]: Four centuries of reconstructed hydroclimatic variability for Northwestern Chihuahua, Mexico, based on tree rings. *Investigaciones Geográficas, Boletín del Instituto de Geografía* 87: 141-153.
9. Cerano-Paredes, J., J. Villanueva-Díaz, R. Cervantes-Martínez, P. Fulé, **L. Yocom**, G. Esquivel-Arriaga, and E. Jardel-Peláez. 2015. [Translation from Spanish]: Fire history in a pine forest in Sierra de Manantlán, Jalisco, Mexico. *Bosque* 36(1): 41-52.
8. Villanueva-Díaz, J., J. Cerano-Paredes, L. Vásquez-Selem, D.W. Stahle, P.Z. Fulé, **L.L. Yocom**, O. Franco-Ramos, J.A. Ruiz Corral. 2015. [Translation from Spanish]: Dendrochronological network of mountain pine (*Pinus hartwegii* Lindl.) for dendroclimatic studies in northeastern and central Mexico. *Investigaciones Geográficas, Boletín del Instituto de Geografía* 86: 5-14.
7. **Yocom, L.L.**, P.Z. Fulé, D.A. Falk, E. Cornejo-Oviedo, P.M. Brown, J. Villanueva Díaz, J. Cerano, C. Cortés Montaña. 2014. Fine-scale factors influence fire regimes in mixed-conifer forests on three high mountains in Mexico. *International Journal of Wildland Fire* 23: 959-968.
6. Irby, C.M., P.Z. Fulé, **L.L. Yocom**, J. Villanueva Díaz. 2013. Dendrochronological reconstruction of long-term precipitation patterns in Basaseachi National Park, Chihuahua, Mexico. *Madera y Bosques* 19(1):93-105.
5. **Yocom, L.L.**, and P.Z. Fulé. 2012. Human and climate influences on frequent fire in a high-elevation tropical forest. *Journal of Applied Ecology* 49(6):1356-1364.
4. Cortés Montaña, C., P.Z. Fulé, D.A. Falk, J. Villanueva-Díaz, **L.L. Yocom**. 2012. Linking old-growth forest composition, structure, fire history, climate and land-use in the mountains of northern México. *Ecosphere* 3(11): Article 106.
3. Fulé, P.Z., **L.L. Yocom**, C. Cortés Montaña, D.A. Falk, J. Cerano, J. Villanueva-Díaz. 2012. Testing a pyroclimatic hypothesis on the Mexico-United States border. *Ecology* 93(8): 1830-1840.
2. **Yocom, L.L.**, P.Z. Fulé, P.M. Brown, J. Cerano, J. Villanueva-Díaz, D.A. Falk, E. Cornejo-Oviedo. 2010. El Niño-Southern Oscillation effect on a fire regime in northeastern Mexico has changed over time. *Ecology* 91(6): 1660-1671.
1. van Dongen, W.F.D., and **L.L. Yocom**. 2005. Breeding biology of a migratory Australian passerine, the golden whistler (*Pachycephala pectoralis*). *Australian Journal of Zoology* 53: 213-220.

Book chapters

1. Daniels, L.D., **L.L. Yocom Kent**, R.L. Sherriff, and E.K. Heyerdahl. 2017. Deciphering the complexity of historical fire regimes: diversity among forests of western North America. In: Amoroso, M., L. Daniels, P. Baker, J. Camarero (eds) *Dendroecology: Tree-Ring Analyses Applied to Ecological Studies*. Ecological Studies series (Analysis and Synthesis), vol. 231. Springer, Cham.

Not peer-reviewed

5. **Yocom Kent, L.L.** 2015. Climate change and fire in the Southwest. Working Papers in Southwestern Ponderosa Pine Forest Restoration #34. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.

4. **Yocom Kent, L.L.** 2014. An evaluation of fire regime reconstruction methods. Working Papers in Southwestern Ponderosa Pine Forest Restoration #32. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.

3. **Yocom, L.L.** 2013. Fuel treatment longevity: a summary of the science. Working Papers in Southwestern Ponderosa Pine Forest Restoration #27. Published by Southwest Fire Science Consortium and Ecological Restoration Institute. Flagstaff, AZ.

2. Falk, D.A., E.K. Heyerdahl, P.M. Brown, T.W. Swetnam, E.K. Sutherland, Z. Gedalof, **L. Yocom**, T.J. Brown. 2010. Fire and climate variation in western North America from fire-scar and tree-ring networks. *PAGES news* 18:70-72.

1. Cerano Paredes, J., J. Villanueva Díaz, P.Z. Fulé, P.M. Brown, **L.L. Yocom**, V. Constante García, J. Estrada Ávalos. 2009. Interpretación del historial de incendios en bosques mixtos de coníferas. Folleto Técnico 15. CENID-RASPA, Gómez Palacio, Mexico.

DATA CONTRIBUTIONS

Yocom, L.L. and P.Z. Fulé. Fire data from Sierra Madre Oriental, Nuevo León, Mexico:
El Diferencial - IMPD MXDI-001. <https://www.ncdc.noaa.gov/paleo/study/21570>
Mesa Acuña - IMPD MXMA-001. <https://www.ncdc.noaa.gov/paleo/study/21571>
San Onofre - IMPD MXOZ6001. <https://www.ncdc.noaa.gov/paleo/study/21587>

Yocom, L.L. and P.Z. Fulé. Fire data from Sierra Madre Oriental, Coahuila, Mexico:
La Armenia - IMPD MXLA-001. <https://www.ncdc.noaa.gov/paleo/study/21572>
Las Bateas 2- IMPD MXLB-001. <https://www.ncdc.noaa.gov/paleo/study/21573>
Las Manzanas - IMPD MXLM-001. <https://www.ncdc.noaa.gov/paleo/study/21574>
La Viga - IMPD MXLV-001. <https://www.ncdc.noaa.gov/paleo/study/21575>
Musgoso - IMPD MXMU-001. <https://www.ncdc.noaa.gov/paleo/study/21576>
Paraíso - IMPD MXPA-001. <https://www.ncdc.noaa.gov/paleo/study/21577>
Rancho Nuevo - IMPD MXRN-001. <https://www.ncdc.noaa.gov/paleo/study/21578>
Puerto el Tarillal - IMPD MXPU-001. <https://www.ncdc.noaa.gov/paleo/study/21579>

El Tarillal - IMPD MXET-001. <https://www.ncdc.noaa.gov/paleo/study/21580>
Yocom, L.L. and P.Z. Fulé. Fire data from eastern Transvolcanic Belt, Puebla, Mexico:
Orizaba 1- IMPD MXOZ1001. <https://www.ncdc.noaa.gov/paleo/study/21581>
Orizaba 2- IMPD MXOZ2001. <https://www.ncdc.noaa.gov/paleo/study/21582>
Orizaba 3- IMPD MXOZ3001. <https://www.ncdc.noaa.gov/paleo/study/21583>
Orizaba 4- IMPD MXOZ4001. <https://www.ncdc.noaa.gov/paleo/study/21584>
Orizaba 5- IMPD MXOZ5001. <https://www.ncdc.noaa.gov/paleo/study/21585>
Orizaba 6- IMPD MXOZ6001. <https://www.ncdc.noaa.gov/paleo/study/21586>

PRESENTATIONS

Contributed presentations

Yocom, L.L., J. Jenness, P. Fulé, A. Thode. Dec. 1, 2017. Previous fires influence subsequent fire growth and severity in Arizona and New Mexico. Association for Fire Ecology International Congress, Orlando, FL.

Yocom, L.L., J. Jenness*, P. Fulé, A. Thode. Sept. 13, 2017. Previous fires and roads limit wildfire growth in Arizona and New Mexico. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. *Presenter.

Yocom Kent, L., K. Ogle*, Y. Liu, P. Szejner, R.K. Monson, and D. Peltier. Sept. 13, 2017. Tree growth response to climate varies across a monsoon precipitation gradient. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ. *Presenter.

Peltier, D., J. Guo, K. Samuels-Crow, L. Yocom-Kent, Y. Liu, W. Anderegg, M. Fell, G. Koch, and K. Ogle. Sept. 13, 2017. Differential growth responses of pinyon and juniper during El Niño and La Niña periods. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., K. Ogle, Y. Liu, P. Szejner, R.K. Monson, D. Peltier*. Aug. 8, 2017. Tree growth response to climate varies across a monsoon precipitation gradient. Ecological Society of America Annual Meeting, Portland, OR. *Presenter.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E.G. Gdula. Nov. 19, 2015. Historical high-severity fire patches in mixed-conifer forests, Grand Canyon National Park. Association for Fire Ecology International Congress, San Antonio, TX.

Yocom, L.L. Nov. 17, 2015. Wildfire as Fuel Treatment: Effects on Subsequent Fire Size in the Southwest. Association for Fire Ecology International Congress, San Antonio, TX.

Yocom, L.L. Sept. 20, 2015. Fire Science and Art Series: public presentation at Coconino Center for the Arts as part of Flagstaff Festival of Science and Fires of Change art exhibition.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. Sept. 18, 2013. Historical mixed-severity fire in high-elevation conifer forest, Grand Canyon North Rim. Conference of Science and Management on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. May 14, 2013. Historical mixed-severity fire in high-elevation conifer forest, Grand Canyon North Rim. AmeriDendro Conference, Tucson, AZ.

Yocom, L.L., P.Z. Fulé, D.A. Falk, P.M. Brown, J. Villanueva-Díaz, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña. Dec. 4, 2012. Climate and land-use drivers of historical fires in northern Mexico. Association for Fire Ecology International Congress, Portland, OR.

Yocom, L.L., P.Z. Fulé, D.A. Falk, P.M. Brown, J. Villanueva-Díaz, J. Cerano, E. Cornejo-Oviedo, C. Cortés Montaña. Mar. 1, 2012. Climate and land-use drivers of historical fires in northern Mexico. Association for Fire Ecology regional meeting, Santa Fe, NM.

Yocom, L.L., P.Z. Fulé, M. Wagner, R. Sheridan. Oct. 25, 2011. Summer Institute on Environmental Stewardship for European Student Leaders. Conference of Research on the Colorado Plateau, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, D.A. Falk, E. Cornejo-Oviedo. Dec. 15, 2011. Fine-scale factors drive variation in fire characteristics in northeastern Mexico. American Geophysical Union Fall Meeting, San Francisco, CA.

Yocom, L.L., P. Z. Fulé, P. M. Brown, J. Cerano, J. Villanueva-Díaz, D. A. Falk, E. Cornejo-Oviedo. Dec. 4, 2009. Effects on El Niño-southern oscillation on fire regime changed over time in northeastern Mexico. Association for Fire Ecology International Congress, Savannah, GA.

Yocom, L.L., P.Z. Fulé, P.M. Brown, J. Cerano, J. Villanueva-Díaz, D.A. Falk, E. Cornejo-Oviedo. Aug. 6, 2009. Effects on El Niño-southern oscillation on fire regime changed over time in northeastern Mexico. Ecological Society of America (ESA) 94th Annual Meeting, Albuquerque, NM.

Yocom, L.L., P.Z. Fulé, P.M. Brown, D.A. Falk, J. Villanueva-Díaz, E. Cornejo-Oviedo. Jan. 30, 2008. Fire-climate interactions in Northern Mexico. Association for Fire Ecology regional meeting, Tucson, AZ.

Public presentations

Yocom, L.L. April 20, 2010. Clima e incendios. Public seminar, Ciudad Serdán, Puebla, Mexico.

Yocom, L.L. Nov. 10, 2009. El clima e incendios forestales en el norte de México. Public seminar, Universidad de Guadalajara, Mexico.

Yocom, L.L. Apr. 21, 2009. El clima, cambio climático, e incendios forestales en el norte de México. Public seminar, Universidad Autónoma Chapingo, Mexico.

Other presentations

Yocom, L.L. Jan. 9, 2018. Research seminar at the Brown-Bag Luncheon Series, Utah Division of Wildlife Resources, Salt Lake City, UT.

Yocom, L.L. Oct. 19, 2017. Research presentation at the Utah BLM Prescribed Fire and Fuels Workshop, Logan, UT.

Yocom, L.L. Aug. 26, 2015. Climate change and fire in the Southwest. Webinar for scientists and managers, Southwest Fire Science Consortium.

Yocom, L.L., P.Z. Fulé, W.A. Bunn, E. Gdula. April 15, 2014. Fire history in mixed-conifer forest: Grand Canyon North Rim. Presentation to scientists and managers at Grand Canyon National Park, Grand Canyon, AZ.

Yocom, L.L. Dec. 3, 2008. Fires in northern Mexico: top-down or bottom-up control? School of Forestry Seminar Series, Flagstaff, AZ.

Yocom, L.L., P.Z. Fulé, P.M. Brown, D.A. Falk, J. Villanueva-Díaz, E. Cornejo-Oviedo. Feb. 25, 2008. Fire-climate interactions in Northern Mexico. Special colloquium, University of Arizona, Tucson, AZ.

GRANTS

2015-2018. Joint Fire Science Program. Thode, A.E., A. Bradley, W. Bunn, Z. Evans, D. Falk, W. Flatley, M. Friggens, P. Fulé, D. Gori, S. Hedwall, R. Keane, R. Loehman, J. Triepke, C. Wilcox, and L. Yocom. Landscape impacts of fire and climate change in the Southwest: A science-management partnership. \$385,145.

2014-2016. Joint Fire Science Program. Yocom, L.L., A.E. Thode, P.Z. Fulé, J. Iniguez, M. Lata, W. Hall, T. Nicolet. Wildfire effects on subsequent wildfire ignition, severity, and management in the Southwest: applying massive data sets to address management questions. \$177,102.

2011-2013. National Park Service Reserve Fund. Fulé, P. Z., L.L. Yocom. Comparing modern and historical high-elevation fire regimes at Grand Canyon. \$98,371.

2011. U.S. State Department Bureau of Educational and Cultural Affairs. Fulé, P. Z., M.R. Wagner, L.L. Yocom. Summer Institute on Environmental Stewardship in the American Southwest. \$161,983.

2010. National Science Foundation. Yocom, L. L. Doctoral Dissertation Enhancement Project: Exploring climatic and human drivers of fire regime in a high-elevation Mexican forest. \$11,283.

2005. Teresa Heinz Scholarship for Environmental Science. Yocom, L. L. Bird perching and visitation preference among native planted trees in Panama. \$5000.

2005. Tropical Resources Institute. Yocom, L. L. Bird perching and visitation preference among native planted trees in Panama. \$3000.

TEACHING

Courses: Utah State University

Forest Vegetation Disturbance Ecology & Management, USU, undergraduates (Fall 2017)

Courses: Northern Arizona University

Ecological Restoration Applications, NAU, undergraduate/graduate students (Fall 2013)

Silviculture and Fire Applications, NAU, professionals (Spring 2013)

Introduction to Wildland Fire, NAU, undergraduates (Spring & Fall 2011, Spring 2012)

Fire Modeling & Monitoring, NAU, undergraduates (Spring 2012)

Fire Modeling and Monitoring for Professionals, NAU, professionals (Fall 2015)

Fire Ecology for Professionals, NAU, professionals (Spring 2012, 2015)

Forest Ecology for Professionals, NAU, professionals (Fall 2011, 2015)

Forestry 101, NAU, undergraduates [forest ecology module, 3 sections] (Fall 2011, 2012)

Dendroecology (co-taught), NAU, graduate students (Fall 2009)

Guest lectures: Utah State University

Wildland Resource Techniques. Sept. 28, 2017.

Guest lectures: Northern Arizona University

Dendroecology. Sept. 28, 2015.

Multicultural Perspectives of Natural Resource Management. April 21, 2016 and April 21, 2015.

Introduction to Wildland Fire. Mar. 8, 2016, Jan. 26, 2016, Oct. 8, 2015, Feb. 19, 2015, Sept. 23, 2014, Mar. 6, 2014, Oct. 10, 2013, Feb. 26, 2013, Oct. 2, 2012, Oct. 5, 2010, and Sept. 29, 2009.

Landscape Ecology. April 10, 2014, April 3, 2012 and Mar. 25, 2010.

Historical Ecology. Oct. 15, 2013.

Fire Ecology. March 3, 2015, Jan. 22, 2015, April 11, 2013, and Feb. 26, 2013.

Ecological Restoration Applications. Sept. 15, 2015, Sept 11, 2012, Sept. 7, 2010 and Sept. 1, 2009.

Fire Ecology and Management. Sept. 13, 2010 and Jan. 26, 2010, Feb. 12, 2009, and Jan. 29, 2009.

Forest Stand Dynamics. Jan. 28, 2010.

Trees and Forests of North America. 2008.

MENTORING

Graduate Student Committees

Current

Lauren Dupey (PhD, 2017 – present)
Kendall Becker (PhD, 2017 – present)
Stephanie Mueller (MS, 2017 – present, NAU)

Completed

Lisa Dowling (MS, 2013 – 2015, NAU)

Undergraduate research mentoring

Philisha Clah (2013, NAU)

SERVICE

Service to the profession

Manuscript reviewer for: Biogeosciences, Biological Conservation, Canadian Journal of Forest Research, Fire Ecology, Forest Ecology and Management, International Journal of Wildland Fire, Journal of Vegetation Science, PLOS ONE

2015: Moderated session at Colorado Plateau Conference, Flagstaff, AZ

2012: Volunteer group leader (Dendroecology) for 22nd Annual North American Dendroecological Fieldweek

2012: Chaired session at Association for Fire Ecology regional meeting, Santa Fe, NM

Campus

2017 – present: QCNR Undergraduate research committee, USU

2013: Committee member, NAU School of Forestry Post-doctoral Scholar Search Committee

2012: Committee member, NAU School of Forestry Faculty Search Committee

2012: Volunteer judge for Undergraduate Research and Design Symposium, NAU

Outreach

2017: Trained Flagstaff Arboretum docents on “Forest Health, Fire Ecology, & Ponderosa Pine”

2013, 2015, 2016: Ecology lab activity for Upward Bound high school students, Flagstaff

2013: Contributed to Peach Springs all-day 4th grade field trip to Hualapai forest, Arizona

MISCELLANEOUS

Advanced Spanish

Wilderness First Responder and CPR-certified (2009-Present)
Certified Firefighter Type 2 ('red card') (2008-Present)