



University of California
Agriculture and Natural Resources

Mendocino County

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July 21, 2022

Dr. Kristina Wolf
Environmental Scientist
California Board of Forestry and Fire Protection
kristina.wolf@bof.ca.gov



RE: Board of Forestry Effectiveness Monitoring Committee Application

Dear Dr. Wolf,

I am submitting this letter in recognition of my interest to become a member of the Board of Forestry Effectiveness Monitoring Committee (EMC). The EMC serves an important role in assessing the efficacy of the California Forest Practice Rules and provides an opportunity to validate or improve the rules through collaborative research and informed discussion. I believe my expertise in forest health and disturbance ecology make me a qualified candidate for the Monitoring Community to help in this endeavor.

I have a graduate degree in entomology with a research focus on forest health, integrated pest management and disturbance ecology. In my current role as University of California Cooperative Extension Forest Advisor for Mendocino, Lake, and Sonoma Counties, I conduct research and outreach & education programs that aim to address high priority issues for both private and public forest landowners and managers in North Coast California. I promote stewardship that helps landowners and managers create healthy and sustainable forests that are resilient to disturbance. My program includes an extensive research program on disturbance ecology; including studying the ecology and management of native and invasive forest pests and how forest management practices can affect the resilience of forests to wildfire. My outreach and education programs cover all topics of forestry including forest stewardship, forestry practices, forest ecology, disturbance ecology, forest management, fire ecology, and forestry education. I collaborate extensively with federal, state and local forestry as well as natural resource colleagues on my research, outreach and education projects.

My research and professional experiences in forest health and disturbance ecology, as well as my current role as UC Cooperative Extension Forest Advisor make me uniquely qualified to serve on the Monitoring Community of the EMC. My interest in serving is to work with stakeholders to test the efficacy of forestry rules and regulations and to support robust research to ensure that best management practices are encouraged.

Thank you for your time and consideration. Please find my attached CV. Feel Free to contact me if you have further questions.

Sincerely,

Michael I. Jones, PhD
UCCE Forest Advisor Mendocino, Lake, and Sonoma

Michael Ian Jones

mjones@ucanr.edu

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229 Chablis Way
Cloverdale, CA 95425
Cell: (707) 338-7457

EDUCATION

Doctor of Philosophy (2018): Entomology
State University of New York, College of Environmental Science and Forestry, Department of Environmental and Forest Biology, Syracuse, NY

Bachelor of Science (2010): Environmental Biology and Management
University of California, Davis, College of Agricultural and Environmental Science, Davis, CA

RESEARCH/WORK EXPERIENCE

University of California Cooperative Extension Forestry Advisor, Mendocino, Lake, & Sonoma Counties October 2018 – Current

Doctoral Research, August 2013 – August 2018, Major Professor: Dr. Melissa Fierke

- Dissertation: *Dispersal, Phenology, and Cold Hardiness of Emerald Ash Borer and Its Introduced Parasitoids*

Staff Research Associate I, Department of Entomology, University of California at Davis, Davis, CA, October 2012 – August 2013, Principal Investigator: Dr. Mary Louise Flint

Junior Research Assistant II, Department of Entomology, University of California at Davis, Davis, CA. September 2010-October 2012. Principal Investigator: Dr. Mary Louise Flint

Biology Technician GS-4, Student Temporary Employment Program, USDA Forest Service, Forest Health Protection, Southern California. July 2010 – September 2010. Supervisor: Dr. Tom Coleman

Undergraduate Research Assistant, Department of Plant Pathology, University of California at Davis, Davis, CA. August 2008- July 2010. Principal Investigator: Dr. David Rizzo

Honors Thesis, Department of Plant Pathology, University of California at Davis, Davis, CA. Spring Quarter, January 2010. Principal Investigator: Dr. David Rizzo

- *Determining the environmental effects of pH and temperature on Phytophthora ramorum (causal agent of sudden oak death) infectability*

Internship, Department of Plant Pathology, University of California at Davis, Davis, CA. Fall Quarter, August 2009. Advisor: Dr. David Rizzo

- Rhododendron propagation for field monitoring of *Phytophthora ramorum* and experiments

PUBLICATIONS

Title	Cited	Year
Jones, M.I., T.W. Coleman, A.D. Graves, M.L. Flint, and S.J. Seybold. 2013. Sanitation options for managing oak wood infested with the invasive goldspotted oak borer, <i>Agrilus auroguttatus</i> Schaeffer	25	2013

(Coleoptera: Buprestidae), in California. <i>J. Econ. Entomol.</i> 106:235–246.		
Flint, M.L., M.I. Jones , T.W. Coleman, and S.J. Seybold. 2013. Pest Note: Goldspotted Oak Borer. University of California, Integrated Pest Management Program. Pub. 74163.	16	2013
Jones, M.I. , J.R. Gould, H.J. Mahon, & M.K. Fierke. 2020. Phenology of Emerald Ash Borer (Coleoptera: Buprestidae) and Its Introduced Larval Parasitoids in the Northeastern United States. <i>J of Economic Entomology.</i> 113 (2), 622-632.	15	2020
Jones, M.I. , J.R. Gould, M.L. Warden, M.K. Fierke. 2019. Dispersal of emerald ash borer (Coleoptera: Buprestidae) parasitoids along a linear ash corridor in western New York. <i>Biological Control.</i> 128, 94-101.	14	2019
Coleman, T.W., M.I. Jones , S.L. Smith, R.C. Venette, M.L. Flint, and S.J. Seybold. 2015. Goldspotted oak borer, <i>Agilus auroguttatus</i> . Forest Insect and Disease Leaflet.	14	2015
Jones, M.I. , J.R. Gould, and M.K. Fierke. 2017. Mortality of overwintering emerald ash borer (Coleoptera: Buprestidae) associated with an extreme cold event in New York, United States of America. <i>The Canadian Entomologist.</i> 149 (4), 482-486	12	2017
Coleman, T.W., M.I. Jones , B. Courtial, A.D. Graves, M. Woods, M.L. Flint, A. Roques, and S.J. Seybold. 2014. Impact of Douglas-fir tussock moth, <i>Orgyia pseudotsugata</i> McDunnough (Lepidoptera: Erebidiae: Lymantriinae), on white fir, <i>Abies concolor</i> , in southern California: The first recorded regional outbreak. <i>For. Ecol. Manage.</i> 329: 295–305.	11	2014
Haavik, L.J., T.W. Coleman, Y. Chen, M.I. Jones , R.C. Venette, M.L. Flint, S.J. Seybold. 2012. First occurrence of the goldspotted oak borer parasitoid, <i>Calosota elongata</i> (Hymenoptera: Eupelmidae), in California. <i>Pan-Pac. Entomol.</i> 88: 374–376.	9	2012
Chen, Y., T.W. Coleman, M.I. Jones , M.L. Flint, and S.J. Seybold. 2013. Foliar nutrients explain goldspotted oak borer, <i>Agilus auroguttatus</i> Schaeffer (Coleoptera: Buprestidae), adult feeding preference for four California oak species. <i>Entomol. Exp. Appl.</i> 149: 57–66.	8	2013
Coleman, T.W., S.L. Smith, M.I. Jones , A.D. Graves, and B.L. Strom. 2017. Effect of Contact Insecticides Against the Invasive Goldspotted Oak Borer (Coleoptera: Buprestidae) in California. <i>J of Economic Entomology.</i> 109 (6), 2436-2445	4	2016
Coleman, T.W., M.I. Jones , M.H. Hoddle, L.J. Haavik, J.C. Moser, M.L. Flint, and S.J. Seybold. 2015. <i>Pyemotes tritici</i> (Acari: Pyemotidae): a parasitoid of <i>Agilus auroguttatus</i> and <i>Agilus coxalis</i> (Coleoptera: Buprestidae) in the southwestern United States of America and southern Mexico. <i>Can. Entomol.</i> 00, 1–5.	4	2015
Coleman, T.W., S.L. Smith, M.I. Jones , A.D. Graves, and B.L. Strom. 2016. Efficacy of systemic insecticides against the invasive goldspotted oak borer (Coleoptera: Buprestidae) in California. <i>Journal of Economic Entomology.</i> 110 (5), 2129-2139	2	2017

PUBLICATIONS in REVIEW or PREPERATION

Jones, M.I. Impact of stochastic winter temperatures on cold hardiness of emerald ash borer and its introduced parasitoids. In Preparation.

PRESENTATIONS (Please inquire for a complete list.)

Jones, M.I., C. Lee, & C. Ewing. "Conifer Mortality in Napa County." Oral Presentation. Napa County Board of Supervisors, Napa, CA, 2022. (Invited)

Jones, M.I., C. Lee, & C. Ewing. "Conifer Mortality in Lake County." Oral Presentation. Lake County Board of Supervisors, Lakeport, CA, 2022. (Invited)

Jones, M.I. "Wildfire and Vegetation Management in Forestlands." Oral Presentation. Marin Wildfire Protection Authority, Virtual, 2022. (Invited)

Jones, M.I. "Prescribed Burn Associations." Oral Presentation. Lake County Risk Reduction Authority, Lakeport, CA, 2021. (Invited)

Jones, M.I. "Assessing tree damage and survival after fire." Oral Presentation. Sonoma County Forest Conservation Working Group, Virtual, 2021.

Jones, M.I. "Post-fire Oak Survival and Regeneration." Oral Presentation. Grizzly Corp Orientation, Hopland, 2021. (Invited)

Jones, M.I., C. Lee, & Y. Valachovic. "Grand Fir and Balsam Woolly Adelgid in California." Oral Presentation. California Forest Pest Council Annual Meeting, 2020. (Invited)

Jones, M.I. "Home Survival in Wildfire-Prone Areas: Design and Maintenance Consideration." Oral Presentation. Various venues in Mendocino and Lake County, 2019. (Invited)

Jones, M.I. "Biological control of emerald ash borer in New York." Oral Presentation. Adirondack Park Invasive Plant Program's Innovations in Invasive Species Prevention and Management Summit, North Creek, NY, May 2018. (Invited)

Jones, M.I., J.R. Gould, M.L. Warden, & M.K. Fierke. "A compilation of studies on emerald ash borer biological control". Oral Presentation. Western Forest Insect Work Conference, Denver, CO, March 2018. (Invited)

MEDIA APPEARANCES (Please inquire for a complete list.)

Jones, M.I. "Napa County facing conifer die-offs." Interviewed by Barry Eberling. Napa County Register. 12 Jul 2022. https://napavalleyregister.com/news/local/napa-county-facing-conifer-die-offs/article_98bbb206-01f3-11ed-9bff-e3f5e8a9ab2f.html

Jones, M.I. "Supervisor Gore Discusses Wildfire Risk Reduction and Health Forests with UC Cooperative Extension." Youtube. Uploaded by Sonoma County Supervisor James Gore. 9 Aug 2021. <https://www.youtube.com/watch?v=jXuZMzQYhM4>

Jones, M.I. "Fire Suppression — And Climate Change — Is To Blame For California's Megafires. Experts Unpack The Term." Interviewed by Ezra David Romero. CapRadio. Sacramento, CA, 29 Sep 2020. <https://www.capradio.org/articles/2020/09/29/megafires-are-breaking-climate-models-highlighting-californias-need-to-focus-on-prevention/>

Jones, M.I. "New evidence shows rising temperatures accelerating frequency and intensity of Northern California wildfires." Interviewed by Austin Murphy. Press Democrat. Santa Rosa, CA, 7 Sep 2020. <https://www.pressdemocrat.com/article/news/new-evidence-shows-rising-temperatures-accelerating-frequency-and-intensity/>

Jones, M.I. "Forestry in Mendocino County." Interviewed by Hannah Bird. KZXY Ecology Hour. Hopland, CA, 29 Mar 2019.

PROFESSIONAL and ACADEMIC ACTIVITIES

Mendocino County Prescribed Burn Association, Chair

- Founding member and chair of the Steering Committee of the Mendocino County PBA, a community group that helps private landowners use good fire as a management tool.

Lake County Prescribed Burn Association, Steering Committee

- Founding member and Lake County PBA, a community group that helps private landowners use good fire as a management tool.

Good Fire Alliance, Co-Chair

- Founding member and Co-Chair of the Good Fire Alliance, Sonoma Counties PBA.

Bishop Pine Management Technical Advisor Group

- Collaborative advisory group with CA State Parks to advise and help develop best management practices for Bishop pine forests in Mendocino and Sonoma County coastal forests

Senior Ag Program Assistant Search Committee Member, UCCE Sonoma, Santa Rosa, CA, 2019

Community Education Specialist Search Committee Member, UCCE Mendocino, Ukiah, CA, 2019

Journal Reviewer 2014–Current

- Biological Control, Forests, and The Canadian Entomologist

Membership in Professional Organizations

- California Licensed Foresters Association Western Forest Insect Working Group, North American Forest Insect Work Conference, USDA Interagency Research Forum on Invasive Species, 2013–2018
- Entomological Society of America, California Forest Pest Council, Western Forest Insect Work Conference, 2010–Current

Graduate Student Association (GSA) Representative for the Department of Environmental Biology and Forestry, SUNY ESF, Syracuse, NY. Fall Semester 2015 – Spring Semester 2018

Graduate Student Representative on a Provost/Executive Vice President Search Committee, SUNY ESF, Syracuse, NY, June–December 2016.

President, Environmental Science and Policy Club, Environmental Science and policy Dept., University of California at Davis, Davis, CA. Spring Quarter 2009-Spring Quarter 2010. Advisor: Dr. Marcel Holyoak.

Undergraduate Peer Advisor for the Environmental Science and policy Dept., University of California at Davis, Davis, CA. Fall Quarter 2009-Spring Quarter 2010. Advisor: Kimberly Mahoney.

TEACHING EXPERIENCE

Guest Lecturer, *Forest Health and Disturbance Ecology*, California Naturalists, Hopland, CA 2019 - current

Guest Lecturer, *Forestry*, Santa Rosa Junior College, Forestville, CA, 2019

Guest Lecturer, *UCCE Mendocino Master Gardner Class*, UCCE Mendocino, Ukiah, CA, 2019 - current

Instructor, *Insect Ecology*, SUNY ESF, Spring 2017 & 2018

Instructor, *Biological Control*, SUNY ESF, Fall 2017

Guest Lecturer, *Forest Insects and Disease*, SUNY ESF Ranger School, Spring 2017 & 2018

Guest Lecturer, *Introduction to Biology*, Bryant and Stratton College, Nov 2013

GRANTS AWARDED

Jones, M.I. Outreach and Education Coordinator – Jackson Demonstration State Forest and Forest Management in Mendocino County. 2022 – current. CAL FIRE contract, \$271,000.

Berrill, J.P., R. York, **M.I. Jones**. Mitigating wildfire hazard in the redwoods: effectiveness and tradeoffs of fuels treatments. 2021 – current. CAL FIRE Forest Health Research Grant, \$500,000 (20-RP-MEU-028).

Valachovic, Y., **M.I. Jones**, Lee, C. Characterizing Grand Fir Decline and Mortality Caused by Balsam Woolly Adelgid in North Coastal California. 2019 – Current. USDA Forest Service, Forest Health Protection, Evaluation Monitoring Grant. \$40,000.

Fierke M.K., **M.I. Jones**. Geographical comparisons of synchrony and phenology of emerald ash borer and its introduced larval parasitoids in New York. May 2015–March 2019. \$360,000. Cooperative Workplan with J.R. Gould, USDA APHIS.

Fierke M.K., **M.I. Jones**. Assessing compatibility of insecticides and biocontrol for controlling emerald ash borer in urban environments. May 2015–March 2019. \$88,000. Cooperative Workplan with J. Gould, USDA APHIS.

QUALIFICATIONS

Basic First Aid

CPR/AED

Qualified applicators certificate (#155320 California Department of Pesticide Regulation. Certified in the categories of Forest (E) and Demonstration and Research (J) (Issued: 2021).

Chainsaw Safety Training certificate provided by Sorren Eriksson's Game of Logging. May 2014.

Insect and Disease Field identification Training with the USDA Forest Service, Forest Health Protection, Southern California Region 5. August 2011.

SKILLS

Supervisory: I currently supervise a Community Education Specialist. I supervised five technicians while working with the USDA Forest Service. During my PhD program I helped maintain the lab during summer field seasons, helped orientate and organize other graduate students, and supervised/mentored 18 undergraduate and graduate research technicians.

Field Work: Ability to trap, collect, and identify wood borers, defoliators, and bark beetles; identification of tree species in western and north eastern forests; identification and ranking of injury to plants caused by insects; plant and soil sample collection; forest plot

establishment/protocols and surveys; temperature collection using data loggers, ability to photograph insects and associated injury; use of forestry tools, e.g., loggers tape, calipers, clinometer, prism, axe, and chainsaw; set-up and monitoring of insect traps: prism, panel, Lundgren funnel, yellow sticky card, delta, wing, and malaise traps.

Laboratory: Knowledge of basic lab organization, maintenance, equipment operation, and safety in entomology and pathology focused labs.

- Entomology lab skills include: trap preparation and break down; sample sorting, preservation, and collecting techniques; identification of GSOB and EAB, other wood borers, defoliators, and bark beetle species collected from traps; pinning insects for collections; experimental assays using GSOB and plant material containing insecticide
- Pathology lab skills include: microorganism culture media preparation; pathogen identification and quantification; training for pathogen culture and identification (undergraduates, students, and visiting scholars); soil, litter and leaf tissue processing; soil nutrient analysis; autoclaving, data organization, and acid washing

Computer: Proficiency in PC and MAC platforms, including Word, Excel, and Powerpoint. Proficient use of ArcGIS and the R platform for statistical analyses. Competent use of microscopes, GPS, data loggers, and other electronic tools used in data collection.

Construction: Use of hand and power tools, experience with chainsaws, and repair/maintenance of field equipment.

REFERENCES

Yana Valachovic
Forest Advisor Humboldt/Del-Norte
University of California Cooperative Extension
Arcata, CA
yvala@ucanr.edu

Dr. Melissa K. Fierke
Professor of Entomology
Department of Environmental Forestry & Biology, SUNY-ESF
Syracuse, NY
mkfierke@esf.edu

Dr. Tom W. Coleman
Entomologist/Slow the Spread Program Manager
USDA Forest Service, Forest Health Protection
Ashville, NC
twcoleman@fs.fed.us

Dr. David Rizzo
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Department of Plant Pathology, Entomology, & Nematology, University of California at Davis
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