

Michael Ian Jones

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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, October 2018 – Current

- Conduct a locally based extension, education and applied research program to address high priority issues in both coniferous and hardwood forests
 - Developing an extension program for Mendocino, Lake, and Sonoma Counties
 - Helped organize and host a GIS for Forestry workshop developed by UC ANR advisors for forestry and natural resource professionals
 - Helped organize and host a two-day Multiage Forestry field tour at Jackson Demonstration State Forest
- Focus on sustainability by promoting the fundamental criteria of economic stability, environmental stewardship and social equity
 - Regularly communicate with forested landowners and managers on topics in forest stewardship
- Provide essential leadership to address critical issues facing forests, forest management, and natural resources in Mendocino, Lake and Sonoma Counties
 - Serve on several technical advisor groups and steering committees
- Important issues include forest management, economics, restoration, watershed and landscape sciences, pest and disease management, and fire and fuels management
 - Developing a research programs to address these issues
- Addresses priorities found in the Strategic Plans for the Sustainable Natural Ecosystems, Endemic and Invasive Pests and Diseases, and Water Quality, Quantity and Security Strategic Initiatives.
- Clientele include RPFs, Industrial and Non-industrial timberland owners, NGOs, oak woodland landowners, policy and decision-makers, and other forest-related stakeholders.

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*
- Research is focused on delimitation, management, and biological control of emerald ash borer (EAB), *Agrilus planipennis* Fairmaire (Coleoptera: Buprestidae) in New York

- Phenology of EAB and its introduced larval parasitoids in the northeast (USDA APHIS funded grant, 2015 – 2018, **Jones et al., In review**)
- Impact of stochastic winter temperatures on overwintering EAB parasitoids (*Tetrastichus planipennisi*, *Spathius galinae*, *Oobius agrili*) released in the northeast (USDA APHIS funded grant, 2017 – 2019, **Jones et al., 2017**)
- Dispersal of EAB parasitoids (*Tetrastichus planipennisi*, *Spathius agrili*, *Spathius galinae*, and *Oobius agrili*) along a linear ash corridor (USDA APHIS funded grant, 2015 – 2018, **Jones et al., 2019**)
- Integrated pest management of EAB in an urban forest (Field Technician, USDA APHIS funded grant, Summer 2015 – 2018)
- Understanding the emerging infestation of EAB in New York through data collection in urban forests, identifying factors influencing spread of EAB, and using modeling techniques to monitor dispersal (Macintire-Stennis grant funded)
- Sentinel trees and managing the spread of emerald ash borer in New York
- Establishment of EAB biological control parasitoids (*Tetrastichus planipennisi*, *Spathius agrili*, and *Oobius agrili*) in long-term NY study plots and impacts on ash health and survival (Field Technician, NRCS funded)
- Presented at multiple conferences and community groups on the threat of EAB to forests, the role of research, and developing new management options
- Presented to ESF classes and outreach organizations on the threat of invasive forest pests and how we manage them
- In addition to conducting research and helping to run other long-term lab projects, I am acting lab manager, which includes some of the following responsibilities

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

- Continuation of a collaborative field research position with the Department of Entomology, UC Davis and the USDA Forest Service, Forest Health Protection, Southern California
Collaborator/Supervisor: Dr. Tom W. Coleman
- As senior lab/field technician I was responsible for training technicians and supervising seasonal field crews in the safe collection of field data
- Led training activities in the field identification of forest pests for Forest Service employees and other local and federal forest regulatory agencies
- Assisted with a forest health training session lead by the Forest Service, Forest Health Protection, on differentiating GSOB injury from native forest insects
- Participated in a variety of forest pest projects involving the detection and evaluation of forest pest outbreaks, the introduction of invasive insects and preventing future outbreaks:
- Wood borer projects
 - Goldspotted oak borer (GSOB), *Agrilus auroguttatus*
- Defoliator projects
 - Douglas-fir tussock moth (DFTM), *Orgyia pseudotsugata*
 - Fruittree leafroller (FTLR), *Archips argyrospilia*
 - Pinyon needle scale (PNS), *Matsucoccus acylptus*
- Native Bark Beetle/ Exotic Ambrosia beetle projects
 - Polyphagous shot hole borer, *Euwallacea sp.*
 - Native bark beetles: California fivespined Ips, Jeffrey pine beetle, western pine beetle, and mountain pine beetle

- Enhanced my ability to identify different wood borer, defoliator, and bark beetle species of California and the western U.S
- Assisted in the evaluation of stands exhibiting signs of forest pest outbreaks detected using aerial detection survey methodologies

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

- Collaborative field research position with the Department of Entomology, UC Davis and the USDA Forest Service, Forest Health Protection, Southern California. Collaborator/Supervisor: Dr. Tom W. Coleman
- Funding provided by a cost share from the USDA Forest Service, Forest Health Protection to UC Davis
- Developed the ability to identify different wood borer, defoliator, and bark beetle species that are a threat to forest health in southern California
- Learned to identify native tree species and research protocols associated with forestry and forest entomology
- Assisted in the preparation of manuscripts for publication to present out research on invasive and native forest pests and provide technical publications providing management recommendations
- Wood borer projects
 - Goldspotted oak borer (GSOB), *Agrilus auroguttatus*
 - Pest management alternatives were developed to slow the spread of GSOB in infested firewood through mechanical grinding and chipping, solarization, and bark removal - this work was published (**Jones et al. 2013**, see publications section)
 - Emerald ash borer, *Agrilus planipennis*
- Defoliator projects
 - Douglas-fir tussock moth (DFTM), *Orgyia pseudosugata*
 - Fruittree leafroller (FTLR), *Archips argyrospilia*
- Seed and Cone insects
- Bark Beetle projects
 - Native bark beetles
 - Walnut twig beetle, *Pityophthorus juglandis*

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

- Identified different wood borer, defoliator, and bark beetle species that are a threat to forest health in southern California. Identifications were made by observing adult and larval specimens, feeding behavior, appearance of frass, egg and larval gallery patterns, and emergence holes
- Learned to identify native tree species and monitoring and sampling protocols associated with forestry and forest entomology

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

- The main objective of this work was to assist with plant pathology research projects focusing on Sudden Oak Death, *Phytophthora ramorum*, providing technical assistance to graduate students, assisting in the management of long-term monitoring and detection projects, and analyzing data
- Gained experience using lab equipment, conducting experiments and building cooperative skills with other scientists

- Learned methods for plant tissue sampling and to identify different types of culture growth and pathogens microscopically
- Developed skills in field identification of plants and pathogens, collecting, and processing plant samples

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

- The title of my project was *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

- I designed a project that developed rhododendron propagation for field monitoring of *Phytophthora ramorum* and laboratory 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 (Coleoptera: Buprestidae), in California. <i>J. Econ. Entomol.</i> 106:235–246.	21	2013
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.	13	2013
Coleman, T.W., M.I. Jones, S.L. Smith, R.C. Venette, M.L. Flint, and S.J. Seybold. 2015. Goldspotted oak borer, <i>Agrilus auroguttatus</i> . Forest Insect and Disease Leaflet.	9	2015
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>Agrilus auroguttatus</i> Schaeffer (Coleoptera: Buprestidae), adult feeding preference for four California oak species. <i>Entomol. Exp. Appl.</i> 149: 57–66.	6	2013
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.	5	2014
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>Agrilus auroguttatus</i> and <i>Agrilus coxalis</i> (Coleoptera: Buprestidae) in the southwestern United States of America and southern Mexico. <i>Can. Entomol.</i> 00, 1–5.	2	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		2017
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		2017
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		2016
Jones, M.I. , J.R. Gould, M.L. Warden, M.K. Fierke. Dispersal of emerald ash borer (Coleoptera: Buprestidae) parasitoids along a linear ash corridor in western New York. <i>Biological Control</i> . 128, 94-101.		2019
McGourty, G., M. I. Jones , A. Oberholster, R Keiffer. Evaluation of Vineyards, Fruit and Wine Affected by Wild Fire Smoke. <i>Proceedings, 21st International Meeting of Viticulture GiESCO</i> , Thessaloniki, Greece.		2019

PUBLICATIONS in REVIEW or PREPERATION

Jones, M.I., J.R. Gould, and M.K. Fierke. Synchrony and Phenology of emerald ash borer and its larval parasitoids in the northeast. In Review.

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

PRESENTATIONS

Jones, M.I. "Home Survival in Wildfire-Prone Areas: Design and Maintenance Consideration." Oral Presentation. Several venues for forested landowners in Mendocino and Lake Co., 2019. (Invited)

Jones, M.I., Lee, C., and Valachovic, Y. "Balsam Woolly Adelgid in California." Oral Presentation. North Coast Sudden Oak Death Meeting, Eureka, CA, 2019. (Invited)

McGourty, G., **M. I. Jones**, A. Oberholster, R Keiffer. "Microvinification as a Method for Predicting Smoke Taint in Wine." Poster Presentation. American Society of Enology and Viticulture Program and Technical Abstracts. Napa, California, 2019.

Jones, M.I. "Forest Insects and Diseases in Northern California." Oral Presentation. Lake County Growers Meeting, Lakeport, CA, 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)

Mahon, H.J., **M.I. Jones**, D.J. Croke, & M.K. Fierke. "Evaluation of trap color for recovery of emerald ash borer parasitoids." Poster Presentation. ESF Spotlight Symposium, Syracuse, NY, April 2018.

- 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)
- Jones, M.I.,** J.R. Gould, & M.K. Fierke. "Synchrony and phenology of emerald ash borer and its introduced larval parasitoids in the northeast." Poster Presentation. Western Forest Insect Work Conference, Denver, CO, March 2018
- Gould, J.R., M.K. Fierke, M.I. Jones, J. Kaltenbach, F. Miller. "Compatibility of Insecticides and Biocontrol for Managing EAB in Urban Environments". Oral Presentation. Eastern Branch, Entomological Society of America, Annapolis, MD, March 2018.
- Jones, M.I.,** J.R. Gould, & M.K. Fierke. "Synchrony and phenology and emerald ash borer and its introduced larval parasitoids in the Northeast." Poster Presentation. Northeast Forest Pest Council Meeting, Burlington, VT, March 2018.
- Jones, M.I.,** J.R. Gould, M.L. Warden, & M.K. Fierke. "Dispersal of the emerald ash borer parasitoid, *Tetrastichus planipennisi* (Hymenoptera: Eulophidae), along a linear ash corridor in western New York." Oral Presentation. Northeast Forest Pest Council Meeting, Burlington, VT, March 2018.
- Jones, M.I.,** J.R. Gould, M.L. Warden, & M.K. Fierke. "Dispersal of the emerald ash borer parasitoid, *Tetrastichus planipennisi* (Hymenoptera: Eulophidae), along a linear ash corridor in western New York." Poster Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY, January 2018.
- Jones, M.I.,** J.R. Gould, & M.K. Fierke. "Integrated pest management of emerald ash borer in an urban forest." Oral Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY, January 2018.
- Jones, M.I.,** J.R. Gould, M.L. Warden, & M.K. Fierke. "Dispersal of the emerald ash borer parasitoid, *Tetrastichus planipennisi* (Hymenoptera: Eulophidae), along a linear ash corridor in western New York." Poster Presentation. 29th USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 2018.
- Jones, M.I.,** J.R. Gould, & M.K. Fierke. "Mortality of overwintering emerald ash borer (Coleoptera: Buprestidae) associated with an extreme cold event in New York state." Poster Presentation. Entomological Society of America Annual Meeting, Denver, CO, November 2017.
- Jones, M.I.,** J.R. Gould, & M.K. Fierke. "Phenology and overwintering survival of the introduced larval parasitoids of emerald ash borer in the northeast." Oral Presentation. Entomological Society of America Annual Meeting, Denver, CO, November 2017.
- Jones, M.I.** & M.K. Fierke. "Emerald ash borer biological control in New York". Oral Presentation. Invasive Species Awareness Week – SLELO-PRISM and CCE of St. Lawrence Co., Massena, NY, July 2017. (Invited)
- Jones, M.I.** & M.K. Fierke. "Emerald ash borer biological control in New York". Oral Presentation. Eastern Lake Ontario Invasive Species Symposium – SLELO PRISM and The Nature Conservancy, Pulaski, NY, June 2017. (Invited)
- Jones, M.I.** & M.K. Fierke. "Emerald ash borer in New York." Oral Presentation. New England Kiln Drying Association, Johnstown, NY, May 2017.

- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology and overwintering survival of the introduced larval parasitoids of emerald ash borer in the northeast.” Poster Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY, January 2017.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Studies on biological control and phenology of emerald ash borer in New York.” Oral Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY, January 2017.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology and overwintering survival of the introduced larval parasitoids of emerald ash borer in the northeast.” Poster Presentation. 28th Annual USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 2017.
- Gould, J.R., **M.I. Jones**, M.K. Fierke. Dispersal of the parasitoid *Tetrastichus planipennisi* relative to the movement of EAB populations. Emerald Ash Borer Research and Technology Development Meeting, Wooster, OH. October 2016.
- Miller, F., J.R. Gould, M.K. Fierke, **M.I. Jones**, J. Kaltenbach. Compatibility of insecticides and biocontrol for controlling EAB in urban environments. Emerald Ash Borer Research and Technology Development Meeting, Wooster, OH. October 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology and overwintering survival of the introduced larval parasitoids of emerald ash borer in the northeast.” Oral Presentation. Emerald Ash Borer Research and Technology Development Meeting, Wooster, OH. October 2016.
- Jones, M.I.** & M.K. Fierke. “Overwintering mortality of emerald ash borer in New York.” Poster Presentation. North American Forest Insect Working Conference, Washington D.C., July 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology of emerald ash borer and its introduced larval parasitoids in the northeast.” Poster Presentation. North American Forest Insect Working Conference, Washington D.C., July 2016.
- Carpentier, J.E., **M.I. Jones**, M.K. Fierke. “Detection of Emerald Ash Borer and Associated Biological Control Parasitoids on Insecticide Treated Trees vs. Untreated Control Trees: A Case Study in Syracuse, NY.” Poster Presentation. ESF Spotlight Symposium, Syracuse, NY, April 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology of emerald ash borer and its introduced larval parasitoids in the northeast.” Oral Presentation. Northeastern Forest Pest Council, Kingston Ontario, Canada, March 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology of emerald ash borer and its introduced larval parasitoids in the northeast.” Oral Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY, January 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology of emerald ash borer and its introduced larval parasitoids in the northeast.” Poster Presentation. 27th Annual USDA Interagency Research Forum on Invasive Species, Annapolis, MD, January 2016.
- Jones, M.I.**, J.R. Gould, & M.K. Fierke. “Phenology of emerald ash borer and its introduced larval parasitoids in the northeast.” Oral Presentation. National Entomological Society of America Conference, Minneapolis, MN, November 2015.
- Jones, M.I.** “Biological Control of Emerald Ash Borer in New York”. Oral presentation. Onondaga County Emerald Ash Borer Taskforce, Syracuse, NY, October 2015.

- Gould, J., Fierke, M.K., Cook, G., & **Jones, M.I.** “Dispersal of the Emerald Ash borer Parasitoid *Tetrastichus planipennis* Along a Linear Greenway in New York.” Poster Presentation” Eastern Branch Meeting of the Entomological Society of America, Rehoboth Beach, DE. March 2015.
- Chen, Y., Poland, T., Coleman, T.W., **Jones, M.I.**, & Seybold, S.J. “A comparison of nutritional ecology of two invasive *Agrilus* forest pests and their respective hardwood hosts.” Poster Presentation. National Entomological Society of America Conference, Portland, OR, October 2014.
- Jones, M.I.** & M.K. Fierke. “Factors influencing the spread of emerald ash borer in an urban forest: A case study in Syracuse, NY.” Poster Presentation. National Entomological Society of America Conference, Portland, OR, October 2014.
- Jones, M.I.**, S.J. Ryan, & M.K. Fierke. “Factors influencing the spread of emerald ash borer in an urban forest: A case study in Syracuse, NY.” Poster Presentation. 8th Emerald Ash Borer Research and Technology Development Meeting, Wooster, OH. October 2014.
- Jones, M.I.**, M.K. Fierke, and S.J. Ryan. Detecting superspreader trees in the emerging emerald ash borer infestation in New York. Poster Presentation. From Lab to Landscape: Integrated Infectious Disease Research, SUNY-ESF and Upstate Medical University, Syracuse, NY. January 2014.
- Jones, M.I.**, M.K. Fierke, and S.J. Ryan. Understanding the emerging emerald ash borer infestation in New York. Poster Presentation. New York Society of American Foresters Annual Meeting, Syracuse, NY. January 2014.
- Jones, M.I.** “Identifying and distinguishing goldspotted oak borer caused injury from other common insect injury found on oaks in southern California.” Oral Presentation. Idyllwild Nature Center. Technical Workshop: GSOB training for Federal, State, County, and Private Professionals, Idyllwild, CA. January 2013.
- Jones, M.I.**, T.W. Coleman, A.D. Graves, M.L. Flint, and S.J. Seybold. “Sanitation Treatments for Oak Wood Infested with the Goldspotted Oak Borer”. Poster Presentation. Entomological Society of America Annual Meeting, Knoxville, TN. November 2012.
- Jones, M.I.**, M. Woods, and T.W. Coleman. “Impact of the First Recorded Douglas-Fir Tussock Moth Outbreak in Southern California”. Poster Presentation. California Forest Pest Council, Sacramento, CA. November 2012.
- Jones, M.I.** and T.W. Coleman. “Life Cycle and Impact of the Fruittree Leafroller in Southern California”. Poster Presentation. California Forest Pest Council, Sacramento, CA. November 2012.
- Jones, M.I.**, T.W. Coleman, A.D. Graves, M.L. Flint, and S.J. Seybold. “Treatments for Oak Wood Infested with the Goldspotted Oak Borer. Poster Presentation”. California Forest Pest Council, Sacramento, CA. November 2011.
- Jones, M.I.**, G. Walter, M.L. Flint, and T.W. Coleman. “Impact of Cone and Seed Pests on Restoration Efforts in Southern California”. Poster Presentation. California Forest Pest Council, Sacramento, CA. November 2010.
- Jones, M.I.**, G. Walter, M.L. Flint, S.L. Smith, B.L. Strom, and T.W. Coleman. “Systemic and Contact Insecticide Trials for the Goldspotted Oak Borer”. Poster Presentation. California Forest Pest Council, Sacramento, CA. November 2010.

Jones, M.I., K. Aram, and D.M. Rizzo. "Determining the environmental effects of pH and temperature in *Phytophthora ramorum* (causal agent of sudden oak death) infectability." Oral Presentation. University of California, Davis. 22nd Undergraduate Research Conference, Davis, CA. April 2010.

MEDIA APPEARANCES

Jones, M.I. "County Cuts Down Number of Ash Trees to Prevent Emerald Ash Borer Spread." Interviewed by Iris St. Meran. Spectrum News, Syracuse, NY, 1 March 2017. Television. <http://www.twcnews.com/nys/central-ny/news/2017/03/1/county-cuts-down-large-number-of-ash-trees-to-prevent-spread-of-emerald-ash-borer.html>

Jones, M.I. "SUNY ESF studying wasps as predators of emerald ash borer." Interviewed by Ellen Abbott. WRVO Public Media, Syracuse, NY, 13 May 2016. Audio. <http://wrvo.org/post/suny-esf-studying-wasps-predators-emerald-ash-borer>

Jones, M.I. "Biocontrol of Emerald Ash Borer: Hope for the Future of Ash." Web blog post. *My Woodlot*. Watershed Agricultural Council – Forestry Program, 6 April 2016. <http://www.mywoodlot.com/item/biocontrol-of-emerald-ash-borer-hope-for-the-future-of-ash>

Jones, M.I. "Predator against Predator." Interviewed by Glenn Coin. *The Post-Standard*, Syracuse, NY, 3 April 2016: A-14. Print. http://www.syracuse.com/news/index.ssf/2016/03/emerald_ash_borer_control_wasps_suny_esf_usda.html

Jones, M.I. "Research on EAB". Interviewed by David White. SUNY ESF Going Green/YNN News, Syracuse, NY, 10 Aug 2015. Television. <http://www.esf.edu/goinggreen/>

PROFESSIONAL and ACADEMIC ACTIVITIES

Mendocino Prescribed Fire Alliance Steering Committee

- Collaborative committee tasked with developing and guiding the operation of the Mendocino Co. prescribed fire association

Good Fire Alliance Steering Committee

- Collaborative committee tasked with developing and guiding the operation of the Sonoma Co. "Good Fire Alliance" prescribed fire association

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

- Assisted in the hiring of a SAPA position to work with the UCCE Sonoma advisors, and to assist in development and organization of the Sonoma Co. prescribed fire association

Community Education Specialist 2 Search Committee Member, UCCE Mendocino, Ukiah, CA, 2019

- Assisted in the hiring of a CES2 position to work with the USDA Health Soils grant program

Journal Reviewer 2014–Current

- Biological Control, Forests, and The Canadian Entomologist

Membership in Professional Organizations

- Onondaga County EAB Task Force, Northeast Forest Pest Council, North American Forest Insect Work Conference, USDA Interagency Research Forum on Invasive Species, 2013–Current
- 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

- Served as one of the senators on the GSA senate for the EFB department to represent the interests of graduate students in the department
- In this capacity, served as the GSA representative on the Academic Governance Technology Committee for the college and regularly attended Academic Governance meetings

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

- Was the graduate student representative on a 14-member search committee to find a highly qualified candidate for Provost/Executive Vice President of SUNY ESF

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.

- Developed and lead club meetings during school session

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.

- Advised students on scheduling course loads, preparation for graduation, volunteer work, and internships.
- Participated in Freshman Orientation for the Environmental Science and policy Dept.

TEACHING EXPERIENCE

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

- Presented a lecture and field tour on “Forest Pests and Diseases of Northern California”

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

- Presented two lectures titled “Insects” and “Plant pathology”

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

- Developed, organized, and lead a seminar course open to both graduate and undergraduate students on topics in insect ecology

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

- Developed, organized, and lead a seminar course open to both graduate and undergraduate students on topics related to biological control

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

- Presented two lectures titled “Invasive Insects in New York” and “Forest Entomology Research & Beyond”

Guest Lecturer, *Introduction to Biology*, Bryant and Stratton College, Jun and Sep 2014

- Presented a lecture titled “Entomology: The Study of Insects”

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

- Presented a lecture titled “Entomology: The Study of Insects” to students with a fellow graduate student Neil Schoppman

GRANTS AWARDED

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.

* Students cannot be listed on grants through the SUNY Research Foundation, however, I contributed substantially to writing, developing, and carrying out these projects, both of which have funded my program for 3 yrs.

AWARDS

Graduate Student Association Excellence in Academic Research Award recipient. 2018, SUNY-ESF, Syracuse, NY

2nd Place in Gerald N. Lanier Student Forum. 2018. Northeast Forest Pest Council Meeting, Burlington, VT

Gerald N. Lanier Award recipient. 2014, SUNY-ESF, Syracuse, NY

3rd Place Poster Presentation. 2014. From Lab to Landscape: Integrated Infectious Disease Research Conference, SUNY-ESF and Upstate Medical University, Syracuse, NY

Certificate of Appreciation. 2011. “In Recognition of invaluable contributions to the GSOB program and Forest Health Protection.” USDA Forest Health Protection, Southern California Shared Service Area.

COMMUNITY SERVICES

- Presentation to various community groups on home hardening and defensible space, Lake and Mendocino Counties, Ca, 2019
- Presented on forest entomology and forestry topics to the Hopland REC *Sustainable You* summer camp and Resource Conservation District FARMS program, Hopland, CA, 2019
- Tabled an entomology and forestry exhibit at the Lake County Fair, Lakeport, CA, 2019
- Volunteer judge for the SUNY ESF *Spotlights on Undergraduates*, Syracuse, NY, May 2018
- Volunteer judge at the W. Genesee Middle School Science Fair, Camillus, NY, Feb 2018
- Presented a talk titled “Emerald ash borer in New York” to the Changing Seasons Neighborhood Association, Manlius, NY, April 2017
- Presented a talk titled “Biological control of emerald ash borer in New York” to the Baltimore Woods Nature Center, Marcellus, NY, February 2017
- Presented a lecture titled “Emerald Ash Borer in New York” to the Tully Middle School, Tully, NY, April 2016
- Presented on the EAB Biological Control program to the Onondaga County Environmental Protection Committee, 8 December 2015

- Collected entomology data and participated in community outreach at the SUNY ESF “*Bioblitz*”, Syracuse, NY, Sept 2015
- Tabled an EAB exhibit at a Town of Dewitt community outreach event, Dewitt, NY, 13 June 2015
- Volunteer judge for the ESF/Syracuse City School District *Environmental Challenge*, Syracuse, NY, April 2015
- Tabled an entomology exhibit and represented SUNY ESF at the annual New York State Fair, Syracuse, NY, August 2014 and 2015
- Volunteer judge for the Corcoran High School “*Earth Science Symposium*”, Syracuse, NY, Feb 2015
- Presented a talk titled “Emerald Ash Borer” to the Syracuse Rotary Club, Syracuse, NY. October 2014.
- Volunteer judge for the SUNY ESF *Spotlights on Undergraduates*, Syracuse, NY, April 2014

QUALIFICATIONS

Basic First Aid

CPR/AED

Qualified applicators certificate (expired) under the California Department of Pesticide Regulation. Certified in the categories of Forest (E) and Demonstration and Research (J) (Issued: 2012).

- QAC used in 2012 for GSOB research with Forest Health Protection

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

- Training in the proper PPE, handling, use, and maintenance of chainsaws and how to effectively and safely fell large diameter trees

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

- Training to identify hazard trees in recreational areas and causal pest infestations and pathogen infections
- Hosted by Forest Health Protection and California Department of Forestry and Fire

SKILLS

Supervisory: I helped supervise 5 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.

EXTRACURRICULAR ACTIVITIES AND INTERESTS

Member: Cal Aggie Alumni Association

Interests: backpacking, camping, carpentry, road cycling, hiking, entomology, pathology

REFERENCES

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