

Jonathon J. Valente

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EDUCATION

- 2012-2017 **Ph.D. in Forest Ecosystems and Society** (Advised by Dr. Matthew Betts)
Oregon State University, Corvallis, OR
Dissertation: Identifying factors driving sensitivity to fragmentation in forest breeding songbirds
- 2012-2017 **M.S. in Statistics** (Advised by Dr. Lisa Madsen)
Oregon State University, Corvallis, OR
Final Project: Rethinking the closure assumption in dynamic occupancy and abundance models
- 2006-2009 **M.S. in Wildlife Science, minor in Statistics** (Advised by Dr. Sammy King)
Louisiana State University, Baton Rouge, LA
Thesis: Distribution and habitat associations of breeding secretive marsh birds in the Mississippi Alluvial Valley of northeast Louisiana
- 2001-2004 **B.A. in Zoology and Environmental Science** (Advised by Dr. Maria González)
Miami University, Oxford, Ohio

ACADEMIC AND RESEARCH EXPERIENCE

- 2022-present **Assistant Unit Leader**, U.S. Geological Survey, Alabama Cooperative Fish and Wildlife Research Unit, Auburn University, Auburn, AL
- 2020-2022 **Postdoctoral Scholar**, Oregon State University, Department of Forest Engineering, Resources, and Management, Corvallis, Oregon (Supervised by Dr. James W. Rivers)
- 2017-2020 **Research Fellow**, Smithsonian Conservation Biology Institute, Migratory Bird Center, Washington DC (Supervised by Dr. T. Brandt Ryder)
- 2009-2012 **Wildlife Biologist**, U.S. Army Engineer Research and Development Center, Environmental Laboratory, Louisville, KY (Supervised by Dr. Richard Fischer)
- 2006 **Point Count Technician**, University of Minnesota Dept. of Fisheries, Wildlife, and Conservation Biology, St. Paul, MN (Supervised by Dr. Derric Pennington)

- 2005-2006 **Environmental Health and Safety Consultant**, Environmental Enterprises Inc., Cincinnati, OH (Supervised by Latonya Dawson)
- 2005 **Small Mammal Research Technician**, Miami University Department of Zoology, Oxford, OH (Supervised by Dr. Nancy Solomon)
- 2005 **Monitoring Avian Productivity and Survivorship (MAPS) Intern**, The Institute for Bird Populations, Point Reyes Station, CA (Supervised by Ron Taylor)
- 2004 **Research Experiences for Undergraduates Program Participant**, Miami University Department of Zoology, Oxford, OH (Supervised by Dr. Maria González)
- 2003-2005 **Aquatic Ecology Research Assistant**, Miami University Department of Zoology, Oxford, OH (Supervised by Dr. Maria González)

MANUSCRIPTS IN PROGRESS (2)

- Valente, J.J.**, J.W. Rivers, Z. Yang, S.K. Nelson, J.M. Northrup, D.D. Roby, C.B. Meyer, and M.G. Betts. (In revision). Fragmentation effects on an endangered species across a gradient from the interior to edge of its range. *Conservation Biology*.
- Galbraith, S.M., **J.J. Valente**, C.J. Dunn, and J.W. Rivers. (In review). Both Landsat- and LiDAR-derived measures predict forest bee response to large-scale wildfire. *Remote Sensing in Ecology and Conservation*.

PEER-REVIEWED PUBLICATIONS (21) – Mentees indicated with *

- Valente, J.J.**, R.E. Bennett, C. Gómez, N.J. Bayly, R.A. Rice, P.P. Marra, T.B. Ryder, and T.S. Sillett. (2022). Comparing land-sparing and land-sharing for conserving avian biodiversity in a coffee agroforestry landscape. *Biological Conservation* 270:109568.
- Zitomer, R.A.*, J. Karr, M. Kerstens, L. Perry, K. Ruth, L. Adrean*, S. Austin, J. Cornelius, J. Dachenhaus*, J. Dinkins, A. Harrington, H. Kim, T. Owens, C. Revekant, V. Schroeder, C. Sink. **J.J. Valente**, E. Woodis*, and J.W. Rivers. (2022). Ten simple rules for getting started with statistics in graduate school. *PLoS Computational Biology* 18:e1010033.
- McCune, K.B., **J.J. Valente**, P. Jablonski, S. Lee, and R.R. Ha. (2022). Social behavior mediates the use of social and personal information in wild jays. *Scientific Reports* 12:2494.
- Rushing, C.S., T.B. Ryder, **J.J. Valente**, T.S. Sillett, and P.P. Marra (2021). Empirical tests of habitat selection theory reveal that conspecific density and patch quality, but not patch size, drive long-distance immigration in a wild bird. *Ecology Letters* 24:1167-1177.
- Betts, M.G., A. Hadley, D. Frey, S. Frey, D. Gannon, S. Harris, H. Kim, K. Leimberger, K. Moriarty, J. Northrup, B. Phalan, J. Rousseau, T. Stokely, **J.J. Valente**, and D. Zarrate-Charry. (2021). When are hypotheses useful in ecology and evolution? *Ecology and Evolution* 11:5762-5776.

- Valente, J.J.**, C.L. LeGrande-Rolls*, J.W. Rivers, A.M. Tucker, R.A. Fischer, and M.G. Betts (2021). Conspecific attraction for conservation and management of terrestrial breeding birds: current knowledge and future research directions. *Ornithological Applications* 123:duab007.
- Valente, J.J.**, S.K. Nelson, J.W. Rivers, D.D. Roby, and M.G. Betts (2021). Experimental evidence that social information affects habitat selection in Marbled Murrelets. *Ornithology* 138:ukaa086.
- Betts, M.G., C. Wolf, M. Pfeifer, C. Banks-Leite, V. Arroyo-Rodríguez, J. Barlow, D.B. Ribeiro, F. Eigenbrod, R.J. Fletcher, A.S. Hadley, J.E. Hawes, R.D. Holt, B. Klingbeil, U. Kormann, L. Lens, T. Levi, D. Mezger, J.C. Morante-Filho, D. Orme, C.A. Peres, B.T. Phalan, A. Pidgeon, G.F.M. Rangel, W.J. Ripple, E. Slade, E. Somarriba, J. Tobias, J. Tylianakis, J.N. Urbina-Cardona, **J.J. Valente**, J.I. Watling, K. Wells, O.R. Wearn, E. Wood, R. Young, and R.M. Ewers. (2019). Extinction filters mediate the global effects of fragmentation. *Science* 366:1236-1239.
- Valente, J.J.**, K.B. McCune, R.A. Tamulonis*, E.S. Neipert, and R.A. Fischer. (2019). Removal pattern mitigates negative, short-term effects of stepwise Russian olive eradication on breeding birds. *Ecosphere* 10:e02756.
- Valente, J.J.**, R.A. Fischer, T.B. Ryder, and M.G. Betts. (2019). Forest fragmentation affects step choices, but not homing paths of fragmentation-sensitive birds in multiple behavioral states. *Landscape Ecology* 34:373-388.
- Valente, J.J.**, and M.G. Betts. (2019). Response to fragmentation by avian communities is mediated by species traits. *Diversity and Distributions* 25:48-60.
- Valente, J.J.**, R.A. Hutchinson, and M.G. Betts. (2017). Distinguishing distribution dynamics from temporary emigration with dynamic occupancy models. *Methods in Ecology and Evolution* 8:1707-1716.
- Kormann, U., C. Scherber, T. Tschardtke, N. Klein, M. Larbig, **J.J. Valente**, A.S. Hadley and M.G. Betts. (2016). Corridors restore animal-mediated pollination in fragmented tropical forest landscapes. *Proceedings of the Royal Society B* 283:20152347.
- Hutchinson, R.A., **J.J. Valente**, S.C. Emerson, M.G. Betts, and T.G. Dietterich. (2015). Penalized likelihood methods improve parameter estimates in occupancy models. *Methods in Ecology and Evolution* 6:949-959.
- Fischer, R.A., **J.J. Valente**, and M.P. Guilfoyle. (2015). Spring migrant use of native and saltcedar-dominated riparian areas along the lower Colorado River in Arizona. *Southwestern Naturalist* 60:6-14.
- Valente, J.J.**, C.L. LeGrande*, V.M. Johnson*, and R.A. Fischer. (2014). A method for improving the reliability of sound broadcast systems used in ecological research and management. *Wildlife Society Bulletin* 38:827-830.
- Valente, J.J.**, S.L. King, and R.R. Wilson. (2012). Summer use of rice fields by secretive marsh birds in the Mississippi Alluvial Valley of northeast Louisiana. *Southeastern Naturalist* 11:423-436.

- Fischer, R.A., S.A. Gauthreaux, Jr., **J.J. Valente**, M.P. Guilfoyle, and M.D. Kaller. (2012). Comparing transect survey and WSR-88D radar methods for monitoring daily changes in stopover migrant communities. *Journal of Field Ornithology* 83:61-72.
- Fischer, R.A., **J.J. Valente**, M.P. Guilfoyle, M.D. Kaller, S.S. Jackson, and J.T. Ratti. (2012). Bird community response to vegetation cover and composition in riparian habitats dominated by Russian olive (*Elaeagnus angustifolia*). *Northwest Science* 86:39-52.
- Valente, J.J.**, S.L. King, and R.R. Wilson. (2011). Distribution and habitat associations of breeding secretive marsh birds in Louisiana's Mississippi Alluvial Valley. *Wetlands* 31:1-10.
- Nowlin, W.H., M.J. González, M.J. Vanni, M.H.H. Stevens, M.W. Fields, and **J.J. Valente**. (2007). Allocthonous subsidy of periodical cicadas affects the dynamics and stability of pond communities. *Ecology* 88:2174-2186.

FEDERAL AGENCY PUBLICATIONS (14)

- Guilfoyle, M.P., J.S. Calver, **J.J. Valente**, S.S. Jackson, M.E. Richards, and R.A. Fischer. (2019). Benefits of engineered habitats to seasonal bird communities on the Savannah Harbor Navigation Project, dredged material containment areas. Technical Report for Dredging Operations and Environmental Research Program. U.S. Army Engineer Research and Development Center.
- Valente, J.J.** and M.G. Betts. (2017). Using dynamic occupancy and species distribution models to understand species sensitivity to landscape configuration. Chapter 1 in Final Report for Strategic Environmental Research and Development Program (SERDP) Project RC-2121. Smithsonian Institution, Oregon State University, Institute for Bird Populations, and U.S. Army Engineer Research and Development Center.
- Ryder, T.B. and **J.J. Valente**. (2017). Synthesizing what different methodological approaches tell us about avian demography on Department of Defense Installations. Chapter 4 in Final Report for Strategic Environmental Research and Development Program (SERDP) Project RC-2121. Smithsonian Institution, Oregon State University, Institute for Bird Populations, and U.S. Army Engineer Research and Development Center.
- Kline, K., E. Mulligan, E. Rose, and **J.J. Valente**. (2014). Developing a plan for creating, managing, and maintaining structurally-diverse early seral forest in the Sweet Home Ranger District of the Willamette National Forest. Final Report for Sweet Home Ranger District of the Willamette National Forest. Oregon State University.
- Fischer, R.A., M.P. Guilfoyle, **J.J. Valente**, S.A. Gauthreaux, Jr., C.G. Belser, D.V. Blaricom, J.W. Livingston, E. Cohen, and F.R. Moore. (2012). The identification of military installations as important migratory bird stopover sites and the development of bird migration forecast models: a radar ornithology approach. Final Report for Strategic Environmental Research and Development (SERDP) Project SI-1439. U.S. Army Engineer Research and Development Center.
- Fischer, R.A., **J.J. Valente**, M.P. Guilfoyle, C.D. Jones, and R.J. Cooper. (2012). Breeding and winter bird monitoring on U.S. Army Installation, Fort Benning, GA. Final Report for U.S.

Army, Fort Benning, GA. U.S. Army Engineer Research and Development Center and University of Georgia Warnell School of Forestry and Natural Resources.

Lott, C.A., **J.J. Valente**, R.A. Fischer, and C.J.R Sheppard. (2012). Preparing inputs for new applications of the TernCOLONY simulation model. Technical Report ERDC EL TR-12-32 for Dredging Operations and Technical Support. U.S. Army Engineer Research and Development Center.

Valente, J.J., and R.A. Fischer. (2012). Avian inventory of vernal pools and wetlands on Beale Air Force Base, California: Winter 2012. Final Report for U.S. Air Force, Beale, CA. U.S. Army Engineer Research and Development Center.

Fischer, R.A., **J.J. Valente**, M.P. Guilfoyle, and S.A. Gauthreaux. (2011). Radaring in on migrating birds. Endangered Species Bulletin 36(1):31.

Valente, J.J., and R.A. Fischer. (2011). Reducing human disturbance to waterbird communities near Corps of Engineers projects. Technical Note ERDC TN DOER-E29 for Dredging Operations and Environmental Research Program. U.S. Army Engineer Research and Development Center.

Fischer, R.A., and **J.J. Valente**. (2010). Evaluation of present and future avian habitat value for potential dredged material restoration sites in the Maumee Bay Region. Final Report for the U.S. Army Corps of Engineers, Buffalo District. U.S. Army Engineer Research and Development Center.

Fischer, R.A., **J.J. Valente**, and M.P. Guilfoyle. (2010). Seasonal bird communities on U.S. Army Corps of Engineers properties along the Snake River in eastern Washington. Final Report for the U.S. Army Corps of Engineers, Walla Walla District. U.S. Army Engineer Research and Development Center.

Fischer, R.A., **J.J. Valente**, M.P. Guilfoyle, and S.S. Jackson. (2010). Factors influencing bird communities on U.S. Army Corps of Engineers properties along the Snake and Columbia Rivers in southeastern Washington. Final Report for the U.S. Army Corps of Engineers, Walla Walla District. U.S. Army Engineer Research and Development Center.

Guilfoyle, M.P., **J.J. Valente**, and R.A. Fischer. (2010). Seasonal avian community inventories at U.S. Air Force Installation, Little Rock Air Force Base, Arkansas. Final Report for Little Rock Air Force Base Natural Resources Department. U.S. Army Engineer Research and Development Center.

COMPETITIVE RESEARCH GRANTS

Valente, J.J., and M.G. Betts. (2015-2017). Developing innovative techniques for assisted species dispersal to minimize potential training impacts. Research Cooperative Agreement, U.S. Army Engineer Research and Development Center \$139,610

FELLOWSHIPS, SCHOLARSHIPS, AND AWARDS

2021 **Elective Member of the American Ornithological Association**
In recognition of significant contributions to ornithology

2018	Postdoctoral Travel Award American Ornithological Society 2018 Conference	\$295
2016-2017	Oregon Lottery Graduate Scholarship Oregon State University Graduate School	\$2,850
2016-2017	College of Forestry Doctoral Student Fellowship Oregon State University College of Forestry	\$4,000
2016	Student Presentation Award Honorable Mention North American Ornithological Conference VI	
2016	Student Travel Grant North American Ornithological Conference VI	\$240
2015-2016	Dorothy D. Hoener Memorial Fund Fellowship Oregon State University College of Forestry	\$8,000
2015-2016	James H. Dukes Jr. Graduate Fellowship Oregon State University Dept. of Forest Ecosystems and Society	\$3,000
2013-2016	Smithsonian Predoctoral Fellowship Smithsonian Migratory Bird Center	\$90,000
2013-2016	Targeted Graduate Tuition Scholarship (non-resident tuition) Oregon State University	\$75,000
2013	Richard/Doris Waring Forest Science Student Travel Award Oregon State University Dept. of Forest Ecosystems and Society	\$420
2012-2013	Provost's Distinguished Graduate Fellowship (stipend & tuition) Oregon State University Graduate School	\$55,000
2012-2013	Alfred W. Moltke Memorial Scholarship Oregon State University College of Forestry	\$3,000

CONFERENCE PRESENTATIONS (29) – Mentees indicated with *

Valente, J.J., S.K. Nelson, J. Dachenhaus*, E. Woodis*, J.A. Bailey Guerrero, D.D. Roby, M.G. Betts, and J.W. Rivers. (2022). Estimating the detectability of breeding behaviors at known Marbled Murrelet (*Brachyramphus marmoratus*) nest sites. Annual Meeting of the Pacific Seabird Group.

Woodis, E.*, **J.J. Valente**, S.K. Nelson, D.D. Roby, M.G. Betts, J. Dachenhaus*, J.A. Bailey Guerrero, and J.W. Rivers. (2022). An assessment of factors that influence nest success of the Marbled Murrelet (*Brachyramphus marmoratus*). Annual meeting of the Pacific Seabird Group.

Dachenhaus, J.*, J.W. Rivers, S.K. Nelson, D.D. Roby, M.G. Betts, E. Woodis*, J.A. Bailey Guerrero, **J.J. Valente**, and L.J. Adrean*. (2022). Chick provisioning rates and nesting success of the Marbled Murrelet (*Brachyramphus marmoratus*). Annual meeting of the Pacific Seabird Group.

- Valente, J.J.**, C.L. LeGrande-Rolls, J.W. Rivers, A.M. Tucker, R.A. Fischer, and M.G. Betts (2021). Conspecific attraction for conservation and management of terrestrial breeding birds. Joint meeting American Ornithological Society / Society of Canadian Ornithologists.
- Rushing, C.S., T.B. Ryder, **J.J. Valente**, T.S. Sillett, and P.P. Marra (2021). Empirical tests of habitat selection theory reveal that conspecific density and patch quality, but not habitat amount, drive long-distance immigration in a wild bird. Joint meeting American Ornithological Society / Society of Canadian Ornithologists.
- Valente, J.J.**, S.K. Nelson, J.W. Rivers, D. Roby, and M.G. Betts (2021). Experimental evidence that social information affects habitat selection in Marbled Murrelets. Annual Meeting of the Pacific Seabird Group.
- Adrean, L.*, **J.J. Valente**, J. Guerrero, K. Nelson, D. Roby, E. Woodis*, M.G. Betts, and J. Rivers. (2021). Evaluating the influence of fluctuating ocean conditions on foraging ecology and breeding activity of a threatened seabird. Annual Meeting of the Pacific Seabird Group.
- Valente, J.J.**, R.A. Hutchinson, V. Jirinec, M. Leu, and M.G. Betts. (2019). The impacts of temporary emigration on colonization and extinction estimates in dynamic occupancy models. American Ornithological Society meeting.
- Valente, J.J.**, T.B. Ryder, R.A. Rice, C. Gómez, N.J. Bayly, T.S. Sillett, and P.P. Marra. (2019). Comparing land-sparing and land-sharing conservation approaches in a coffee-growing region with high avian biodiversity. American Ornithological Society meeting.
- McCune, K.B., **J.J. Valente**, P. Jablonski, S. Lee, and R. Ha. (2019). Testing the social intelligence hypothesis in wild birds. American Ornithological Society meeting.
- C. Amundson, Q. Latif, and **J.J. Valente**. (2019). Estimating avian abundance from unmarked populations: requirements, assumptions, and finding the best method for your research. American Ornithological Society meeting.
- Valente, J.J.**, T.B. Ryder, C.S. Rushing, M.G. Betts, R.A. Fischer, T.S. Sillett, and P.P. Marra. (2018). Using point counts to estimate population growth and site quality: a comparison with intensive demographic monitoring. American Ornithological Society meeting.
- Valente, J.J.** (2018). A novel approach to choosing study species in ornithological research using the subjective habitat impression test. Smithsonian Ornithology Exchange.
- Castle, J., **J.J. Valente**, K.B. McCune, R.A. Tamulonis, E.S., and R.A. Fischer. (2018). Considerations for management of Russian olive (*Elaeagnus angustifolia*) to promote breeding bird diversity along the Lower Snake River. Washington Native Plant Society (Columbia Basin Chapter) monthly meeting, Columbia Basin College, Pasco, Washington.
- Valente, J.J.**, R.A. Fischer, T.B. Ryder, and M.G. Betts. (2016). Evaluating the relationship between breeding bird distributions and functional connectivity in fragmented forest landscapes. North American Ornithological Conference VI.
- Kormann, U., A. Hadley, C. Scherber, T. Tschardtke, N. Klein, **J.J. Valente**, and M.G. Betts. (2016). Corridors restore animal-mediated pollination in fragmented tropical forest landscapes. North American Ornithological Conference VI.

- Hutchinson, R.A., **J.J. Valente**, S. Emerson, M.G. Betts, and T. Dietterich. (2016). Penalized likelihood methods for occupancy models. International Statistical Ecology Conference.
- Valente, J.J.**, M.G. Betts, and R.A. Fischer. (2015). The role of social information in avian habitat selection. American Ornithologists Union Willamette Valley Bird Symposium.
- Valente, J.J.**, and M.G. Betts. (2013). Social cues in avian habitat selection: the influence of life history and fragmentation. The 9th North American Forest Ecology Workshop.
- Valente, J.J.**, and M.G. Betts. (2013). Patches, habitat, and connectivity: a species-centered perspective. Oregon State University College of Forestry Western Forestry Graduate Research Symposium.
- Marra, P.P., T.B. Ryder, T.S. Sillett, R. Fischer, M. Betts, **J.J. Valente**, and P. Nott. (2011). Modeling regional source-sink dynamics for neotropical-nearctic songbirds on Department of Defense installations. SERDP/ESTCP Partners in Environmental Technology Technical Symposium and Workshop.
- Valente, J.J.**, R.A. Fischer, M.P. Guilfoyle, M.D. Kaller, S.S. Jackson, and J.T. Ratti. (2011). Bird community response to vegetation cover and composition in riparian habitats dominated by Russian olive (*Elaeagnus angustifolia*). Association of Field Ornithologists, Cooper Ornithological Society, and Wilson Ornithological Society joint meeting.
- Valente, J.J.**, and S.L. King. (2008). Habitat characteristics associated with breeding secretive marsh birds in the Mississippi Alluvial Valley of Louisiana. The Waterbird Society 32nd annual meeting.
- King, S.L., S. Pierluissi, M. Perkins, B. Pickens, and **J.J. Valente**. (2008). A synthesis of breeding and wintering King Rail research in Louisiana. The Waterbird Society 32nd annual meeting.
- Valente, J.J.**, and S.L. King. (2008). Habitat characteristics associated with breeding secretive marsh birds in Louisiana's Mississippi Alluvial Valley. Louisiana Association of Professional Biologists annual meeting.
- Valente, J.J.**, and S.L. King. (2008). Habitat characteristics associated with breeding secretive marsh birds in the Mississippi Alluvial Valley of Louisiana. American Ornithologists Union, Cooper Ornithological Society, Society of Canadian Ornithologists joint meeting.
- Valente, J.J.**, and S.L. King. (2007). Marsh bird use of natural, managed and agricultural wetland habitat in northeast Louisiana. Louisiana Association of Professional Biologists annual meeting.
- Nowlin, W.H., M.H.H. Stevens, M.J. Vanni, M.J. González, **J.J. Valente**, and M.W. Fields. (2005). Effects of a pulsed allochthonous subsidy from a 17-year periodical cicada emergence on woodland pond communities. Ecological Society of America 90th annual meeting.
- Valente, J.J.**, M.J. González, W.H. Nowlin, M.J. Vanni, M.W. Fields, and M.H.H. Stevens. (2005). Effects of the 17-year periodical cicada emergence on zooplankton communities in woodland ponds. Ecological Society of America 90th annual meeting.

INVITED TALKS (13)

- Valente, J.J.** (2022). Marbled Murrelets: The enigma of the Pacific. Audubon Society of Corvallis monthly meeting, Corvallis, OR.
- Valente, J.J.** (2022). Conserving and managing biodiversity in human-modified systems. Auburn University College of Forestry and Wildlife Sciences seminar, Auburn, AL.
- Valente, J.J.** (2021). Biodiversity conservation in human-modified systems. Louisiana State University School of Renewable Natural Resources seminar, Baton Rouge, LA.
- Valente, J.J.** (2021). Understanding Marbled Murrelet habitat selection and population dynamics. Portland Audubon Society meeting, Portland, OR.
- Valente, J.J.** (2021). Marbled Murrelets: The enigma of the Pacific. Yolo County Audubon Society monthly meeting, Davis, CA.
- Valente, J.J.** (2021). Marbled Murrelets rely on each other to identify potential nesting sites. Willamette Valley Bird Symposium, Corvallis, OR.
- Valente, J.J.** (2020). Understanding the effects of habitat fragmentation on biodiversity: shining new light on an ages-old debate. Yale Center for Biodiversity and Global Change Seminar Series, New Haven, CT.
- Valente, J.J.** (2019) Effects of forest fragmentation on bird communities in agricultural landscapes. Arizona State University, School of Life Sciences, Landscape Ecology & Sustainability Lab meeting, Tempe, AZ.
- Valente, J.J.** (2017). Identifying factors driving sensitivity to fragmentation in forest breeding songbirds. Smithsonian Conservation Biology Institute Rock Creek Seminar Series, Washington, D.C.
- Valente, J.J.** (2015). Using a hierarchical approach to model source-sink dynamics for neotropical-nearctic songbirds. Oregon State University Bird Nerds monthly meeting, Corvallis, OR.
- Valente, J.J.** (2012). Learning how to prioritize conservation areas for neotropical migrants. Beckham Bird Club monthly meeting, Louisville, KY.
- Valente, J.J.,** and R.A. Fischer. (2010). Avian use of Department of Defense lands: addressing unique challenges and conservation concerns. Beckham Bird Club monthly meeting, Louisville, KY.
- Valente, J.J.,** and S.L. King. (2008). Status and distribution of breeding King Rails in Louisiana. 2008 Louisiana Ornithological Society Winter Meeting, Alexandria, LA.

TEACHING EXPERIENCE

- 2016, 2018 **Radio telemetry instructor**, Louis Stokes Alliance for Minority Participation program, Oregon State University.
- 2018 **Assistant Instructor**, Get Spatial! Using R for GIS and Spatial Analyses. American Ornithological Society meeting, Tucson, AZ.

- 2015 **Teaching Assistant**, Natural Resources Data Analysis. Oregon State University Department of Forest Ecosystems and Society, Corvallis, OR.
- 2005-2006 **Volunteer Exhibit Interpreter**, Newport Aquarium, Newport, KY.
- 2005 **On-Board Educator**, Ohio River Valley Water Sanitation Commission's Educational Foundation, Cincinnati, OH.

SERVICE ACTIVITIES

- 2012-present **Manuscript reviewer**, *The Auk*, *Biological Conservation*, *The Condor*, *Diversity and Distributions*, *Ecography*, *Ecological Applications*, *Ecology Letters*, *European Journal of Wildlife Research*, *Forest Ecology and Management*, *Journal of Field Ornithology*, *Journal of Great Lakes Research*, *Landscape Ecology*, *Northeastern Naturalist*, *Proceedings of the Royal Society B*, *Restoration Ecology*, *Waterbirds*, and *Wildlife Society Bulletin*
- 2020-present **Contributing member**, Marbled Murrelet Technical Committee of the Pacific Seabird Group
- 2015-present **Statistical consultant**, providing approximately 100 hours of unpaid statistical advice for graduate students and post-docs
- 2021 **Expert Panelist**, Discussion of "Murrelets and megafires: increased challenges for Marbled Murrelets in an era of climate change." Annual Meeting of the Pacific Seabird Group.
- 2021 **Expert Panelist**, American Ornithological Society Student Affairs Committee meeting on "Navigating Postdocs."
- 2020 **Guest Subject Matter Editor**, *Ecological Applications*.
- 2019 **Symposium organizer**, Counting unmarked birds: matching appropriate sampling and modeling techniques with particular research questions. American Ornithological Society conference.
- 2018 **Seminar Committee Member**, Rock Creek Seminar Series, Smithsonian Conservation Biology Institute.
- 2012-2015 **Graduate Representative**, Department of Forest Ecosystems and Society, Oregon State University.
- 2012-2015 **Graduate Student Council Member**, College of Forestry, Oregon State University.

MENTORSHIP

- 2020-present **~10 graduate students and early career ecologists** advised on developing research projects, data analysis, and presenting results for journals and meetings
- 2020 **6 graduate students and early career ecologists** trained on the principles of data science, statistical inference, and programming in R

- 2006-present **31 early career ecologists** trained on advanced field, GIS, and data management techniques
- 2014-present **Vincent Johnson, Christa LeGrande, Rachel Tamulonis, and Anna Tucker**, field technicians who co-authored peer-reviewed manuscripts with me.
- 2017 **Rachel Tamulonis**, Wildlife Management graduate certificate, Oregon State University. Supervisor of the capstone project: Effects of spatial removal patterns of the invasive Russian olive on avian communities in riparian ecosystems.
- 2014-2015 **Alwaleed Almohsen, Heath Tallman, and Tariq Bafiel**, Electrical Engineering undergraduates, Oregon State University. Supervisor of the senior design project: Sound broadcast system for the research and management of songbirds.

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

- 2016-present American Ornithologist's Union
- 2018-present Ecological Society of America
- 2020-present Pacific Seabird Group

ADVANCED QUANTITATIVE SKILLS

R, JAGS, and C++ software for statistics	Species distribution modeling
GIS software: ArcMap™ and QGIS	Generalized linear mixed modeling
Geospatial analysis with Google Earth Engine	Bayesian hierarchical modeling
Methods for accounting for imperfect detection	Survival analysis
Managing and processing large datasets	Meta-analytic techniques
Study design	Analysis of movement data
Data simulation	Use of high-performance computing clusters

ADVANCED FIELD SKILLS

Ornithological survey techniques	Limnological survey techniques
Forest and wetland plant identification	Garmin GPS Units
Coordination with multiple stakeholders	Hiring/supervision of field personnel
Logistical coordination of personnel/equipment	

REFERENCES

Matthew G. Betts, PhD
Professor
Dept. of Forest Ecosystems and Society
Oregon State University
Corvallis, OR 97331
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Matt.Betts@oregonstate.edu

Richard A. Fischer, PhD, CWB
Wildlife Biologist
U.S. Army Engineer R&D Center
Environmental Laboratory
Vicksburg, MS 39180
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Richard.A.Fischer@erdc.dren.mil

James (Jim) W. Rivers, PhD
Assistant Professor
Forest Engineering, Resources, & Management
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