

PATRICK RYAN ALDRICH

CURRICULUM VITAE

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EDUCATION:

- 2006 Master's of Science in Zoology, Department of Zoology and Ecology, Evolution, and Conservation Biology Program, University of Hawaii-Manoa.
1997 Bachelor of Science (with honors) Wildlife and Fisheries Biology and a minor in Entomology, University of California, Davis.

WORK EXPERIENCE:

Post Graduate Work

- 03/13-Present: Lead Statistician and Evaluation, Assistant Fellow, The Research Institute at Western Oregon University, Monmouth, OR.
1/10-10/12: Project Director, Western Oregon University, Division of Natural Sciences and Mathematics, Monmouth, OR.
3/09-6/09: Non-Tenure Track Faculty, Western Oregon University, Division of Natural Sciences and Mathematics, Monmouth, OR.

Graduate Assistantships

- 1/07-06/09: Research Assistant, University of Hawaii-Manoa, NSF-EPSCoR Pollination study, Department of Zoology, Honolulu, HI.
8/06-1/07: Teaching Assistant, University of Hawaii-Manoa, Department of Zoology, Honolulu, HI.
7/04-8/06: Research Assistant, University of Hawaii-Manoa, Office of Mauna Kea Management, Honolulu, HI.
1/04-1/05: Research Assistant, University of Hawaii-Manoa, Water Resources Division, Honolulu, HI.
8/02-1/04: Teaching Assistant, University of Hawaii-Manoa, Department of Zoology Honolulu, HI.

Field Biology Consultant

- 5/01-8/01: Field Assistant, University of Nevada Reno, Jay Dow Sr. Wetlands, Lassen County, CA.
9/00-01/01: Field Assistant, Satin Bowerbird Study, Wallaby Creek, New South Wales, Australia.
3/00-9/00: Biological Science Technician, United States Forest Service, Gila National Forest, Supervisor's Office, Silver City, NM.
3/99-01/00: Post Graduate Researcher, University of California, Davis, Davis, CA.
3/98-12/98: Wildlife/Botany Field Assistant, Idaho Power, Hell's Canyon, ID.
4/97-12/97: Field Assistant, Putah Creek Bioregion Project, Davis, CA.
7/96-7/97: Field Assistant, Small Mammal Community Ecology, Deep Canyon, CA; Riverside, CA.

MEMBERSHIPS AND COMMITTEES:

- 2014: Oregon Program Evaluators Network
2014: National Association for the Education of Young Children
2013-Present: Oregon Early Childhood Researcher's Partnership

- 2008: Entomological Society of America Organizing committee for the Graduate Student Symposium, Pacific Branch of the Entomological Society of America
- 2004-2010: Ecological Society of America
- 5/04-12/06 Advisory member of the Wekiu Bug Scientific Advisory Committee
- 1997-Present: Phi Sigma National Biological Honor Society

PERIODIC PUBLICATIONS:

- 2013- Present QRIS DataFacts Monthly data report
- QRIS Process Evaluation Quarterly Report

REPORTS:

- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2012. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Final Technical Report for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2012. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Progress Report 5 for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2012. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Progress Report 4 for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2011. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Progress Report 3 for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2011. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Progress Report 2 for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Taylor, S.G, Dutton, E.K., Aldrich, P.R., and Dutton, B.E., 2010. Application of spatial statistics to latent print identifications: Towards improved forensic science methodologies. Progress Report 1 for Award 2009-DN-BX-K228. National Institute of Justice. Washington, D.C.
- Aldrich, P.R. 2006. Candidate Conservation Agreement for Wekiu Bug (*Nysius wekiuicola*). The Office of Mauna Kea Management and U.S. Fish and Wildlife Service. Hilo, HI.
- Aldrich, P.R. 2005. The Biological Information of Mauna Kea. The Office of Mauna Kea Management. Hilo, HI.
- Aldrich, P.R, editor. 2005. The Biological Management Plan for Mauna Kea. The Office of Mauna Kea Management. Hilo, HI.

POSTERS AND PRESENTATIONS:

Peer Reviewed

- Aldrich, P. Guy, S. and Udell, T. 2015. Beyond Coaching: A tiered model for Technical Assistance in a QRIS. NAEYC PDI conference, New Orleans, Louisiana.
- Smith, S., Friese, S., Aldrich, P., & Bleakney-Huebsch, D. M., 2015. Unpacking the quality improvement box: Using data on technical assistance to strengthen impact. Will be presented at the QRIS National Meeting, Washington DC.
- Bleakney-Huebsch, D. M., Lopez Melton, R., Aldrich, P., & Guy, S. 2014. Myths and misconceptions: Oregon's QRIS. Oregon Association for the Education of Young Children Fall Conference, Portland, Oregon
- Lopez Melton, R., Bleakney-Huebsch, D. M., Aldrich, P., & Udell, T. 2014. Balancing intent and integrity: Results from Oregon's field-tested articulation of national standards and Oregon's

- quality rating and improvement system. National Association for the Education of Young Children, Dallas, Texas.
- Udell, T., Aldrich, P., Lopez Melton, R., & Bleakney-Huebsch, D. M. 2014. Portfolio systems: A cost-effective approach for measuring the quality of care and education programs in a statewide quality rating and improvement system. National Association for the Education of Young Children, Dallas, Texas.
- Aldrich, P., Lopez Melton, R., and Udell, T., 2014. The portfolio approach: A cost effective measure for evaluating program standards. QRIS Build Conference. Denver, Colorado.
- Aldrich, P., Lopez Melton, R., and Udell, T., 2014. The portfolio approach: A cost effective measure for evaluating program standards. NAEYC Professional Development Conference. Minneapolis, Minnesota.
- Taylor, S.B., Stanley, R., Aldrich, P.R., Dutton, B., Dutton, E., and Hidalgo, S., 2012. Novel Use of GIS for Spatial Analysis of Fingerprint Patterns: Abstract with Programs, accepted for presentation at the 2012 Urban and Regional Information Systems Association (URISA) National Meeting, Portland, Oregon.
- Stanley, R., Dutton, E., Taylor, S., Aldrich, P.R., and Dutton, B., 2012. Geographic Information Systems and Spatial Analysis – Part 1: Quantifying Fingerprint Patterns and Minutiae Distributions: Abstract with Programs, American Academy of Forensic Sciences Annual Meeting.
- Dutton, E., Taylor, S., Aldrich, P.R., Dutton, B., and Stanley, R., 2012. Geographic Information Systems and Spatial Analysis – Part 2: A Monte Carlo Approach to Estimating Probabilities for Latent Print Identification: Abstract with Programs, American Academy of Forensic Sciences Annual Meeting.
- Hidalgo, S., Dutton, B., Stanley, R., Aldrich, P.R., Dutton, E., and Taylor, S., 2012. A Geometric Morphometric Approach to Fingerprint Analysis: Abstract with Programs, American Academy of Forensic Sciences Annual Meeting.
- Dutton, E.K., Taylor, S.B., Aldrich, P.R., and Dutton, B., 2011. Application of Geographic Information Systems and Spatial Statistics to Probability Estimates in Latent-Print Identification: Abstracts with Program, International Association for Identification, Milwaukee, Wisconsin.
- Aldrich, P.R. 2010. Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies. *International Association for Identification, 95th International Educational Conference*: 66.
- Dutton, E., Taylor, S.B., Aldrich, P., and Dutton, B., 2010. Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies: General Forensics R&D Grantees Meeting, Proceedings of the American Academy of Forensic Sciences, v. 16, Seattle Washington.
- Aldrich, P.R. 2007. The structure of a Hawaiian dry forest pollination web and its implications for invasion. Ecological Society of America, Annual meeting. San Jose, CA.
- Aldrich, P.R. 2007. A partial pollination web of a Hawaiian dry forest. Hawaiian Ecosystems meeting. Hilo, HI.
- Aldrich, P.R. 2007. Oh what tangled webs: A partial pollination web of a Hawaiian dry forest. Albert Testers Memorial Symposium. Honolulu, HI.
- Aldrich, P.R. 2005. A proposal to study the connectance of pollination systems in Hawaiian dry forests. Albert Testers Memorial Symposium. Honolulu, HI.

INVITED SPEAKER:

- Aldrich, P., and S. Guy. 2014. Evidence from investments in ECE Quality: Association between receipt of TA and earning a QRIS rating. 2014 Child Care and Education Researchers Roundtable, Troutdale, Oregon.

- Aldrich, P., and S. Guy. 2015. TA investments in earning a QRIS star rating. OCDC PDI meeting, Tigard, Oregon.
- Aldrich, P. 2015. Using methods and techniques in novel ways-providing insight into old problems. Bagels and Bytes at The Research Institute at Western Oregon University, Monmouth, Oregon.
- Aldrich, P.R. 2009. Pollination Webs in Hawai'i: The Influence of Invasion and Extinction. Western Oregon University, Division of Natural Sciences and Mathematics Seminar Series.
- Aldrich, P.R. 2009. Can quantitative pollination webs provide insight to co-evolution within a degraded Hawaiian ecosystem? Pacific Branch of the Entomological Society of America. San Diego, CA.
- Aldrich, P.R. 2008. Conservation and restoration of a rare Hawaiian ecosystem, the roles of pollination and invasion. Pacific Branch of the Entomological Society of America. Napa, CA.
- Aldrich, P.R. 2007. Pollination webs of Hawaiian Dry Forests. The Nahele Dry Forest Symposium. Kailua-Kona, HI.
- Aldrich, P.R. 2006. Endangered mutualisms? Plant-pollinator interactions in Hawaiian forests. The Hilo ecology series seminar, Hilo, HI.

GRANTS AND SCHOLARSHIPS:

- 2009 Senior Personnel, U.S. Department of Justice (DOJ). *Application of Spatial Statistics to Latent Print Identifications: Towards Improved Forensic Science Methodologies*, \$685,754
PI: Dr. Stephen B. Taylor
- 2007 Jessie Kay Memorial Fellowship, \$10,000
- 2007 NSF-EPSCoR pollination grant. PI: Dr. Andrew Taylor
My M.S. research was used as the basis for the grant.
- 2003 Ecology, Evolution, & Conservation Biology NSF-GK-12 research grant, \$600
- 2006 Ecology, Evolution, & Conservation Biology NSF-GK-12 research grant, \$400