

Jason David Baumsteiger

Cell phone: (360) 635-2081

Email: jb4799@gmail.com

Education

- Doctor of Philosophy in Quantitative and Systems Biology 2013 University of California, Merced
 - Master of Science in Natural Resources (Fisheries Genetics) 2002 Humboldt State University
 - Bachelor of Science in Biology 1998 University of California, Los Angeles
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Professional Experience

- 06/15 – present Post-doctoral Research Fellow
Center for Watershed Sciences and Department of Animal Sciences, UC Davis (UCD)
Co-Advisors: Dr. Michael Miller and Dr. Peter Moyle
- 08/14 – 06/15 Lecturer
Department of Biological Sciences, California State University Stanislaus
- 07/14 – 06/15 Post-doctoral Research Associate
Department of Animal Sciences, UC Davis (UCD)
Advisor: Dr. Michael Miller
- 03/14 – 06/14 Lecturer
Department of Evolution and Ecology, UC Davis
- 08/13 – 12/13 Lecturer and Teaching Fellow
School of Natural Sciences, UC Merced
- 08/08 – 08/13 Ph.D. Student/Candidate and Teaching Fellow
Quantitative and Systems Biology, School of Natural Sciences, UC Merced (UCM)
Advisor: Dr. Andres Aguilar
Committee: Dr. Peter Moyle (UCD), Dr. Michael Dawson (UCM), Dr. Andrew Kinzinger (HSU)
- 08/06 – 08/08 Amphibian Genetics Laboratory Manager
Washington State University, Pullman, WA
Supervisor: Dr. Andrew Storfer
- 11/02 – 08/06 Fisheries Biologist/Geneticist
Abernathy Fish Technology Center
U.S. Fish and Wildlife Service, Longview, WA
Supervisors: Dr. William Ardren and Dr. Donald Campton
- 08/99 – 08/02 Genetics Laboratory Manager/ Graduate Student
Department of Fisheries Biology, Humboldt State University
Advisor: Dr. Eric Loudenslager.
- 08/99–08/01 Teaching Hatchery Assistant/Technician
Department of Fisheries Biology, Humboldt State University
- 08/97 – 08/99 Undergraduate Research Assistant
Department of Organismal Biology, Ecology, and Evolution, UCLA
Advisor: Dr. Robert Wayne
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Teaching Experience

- Lecturer Cell and Mol. Biology, Population Genetics, Bio for non-Bio (CSUS) Sp2015
Ecology, Ecology Lab, Bio for non-Bio, Grad Seminar (CSUS) F2014
Introductory Evolution/Ecology (UCD) Sp2014
Evolution (UCM) F2013
- Teaching Assistant Microbial Evolution (UCM) F2013
Intro to Cell and Molecular Biology (UCM) F+Sp 2010, F2011, F+Sp2012
Conservation Biology Field (UCM) Sp2009, Sp2011
Conservation Biology (UCM) F2008, Sp2011
- Guest Lecturer Conservation Biology (UCM) March 2012
Introduction to Cell and Molecular Biology (UCM) Oct, March, November 2012
Fisheries Genetics (HSU) March 2002
Introduction to Sampling Theory (HSU) February 2002
- Undergrad T.A. Animal Physiology (UCLA) Fall 1997
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Volunteer Experience

08/12 – 07/13	Academic Affairs Officer for Graduate Student Association
08/12 – 07/13	Graduate Student Rep., Committee on Academic Planning and Resource Allocation
08/12 – 07/13	Graduate Student Rep., Ombuds Oversight Committee
08/11 – 07/13	Co-founder of UC Merced Environmental Science, Ecology and Evolution Discussion Group
08/09 – 07/13	Instructional Intern for Center for Research on Teaching Excellence (CRTE)

Awards

- Top 300 Reviewer for Molecular Ecology 2015
 - UC Merced QSB Dissertation Fellowship – Spring 2013 (\$9000)
 - UC Merced School of Natural Sciences Summer Fellowship - 2013 Stipend(\$6100) Travel (\$1000)
 - Sigma Xi Fellowship Grant, 2012, one year (\$1000).
 - Title: “Impact of dams on species boundaries in freshwater sculpin (*Cottus*)”
 - UC Merced Graduate Research Council - Graduate Student Fellowship 2010, 2011, 2012
 - Summer Stipend (\$6000), Research and Travel (\$1500) per year
 - Certificate of Teaching Accomplishment and Instructional Training – UC Merced CRTE 2010-2011.
 - Nominated for K. Patricia Cross Future Leaders Award (Assoc. of Am. Colleges & Univ.) by UCM CRTE.
 - Nominated for Teaching Assistant of the Year, 2011
 - Governmental STAR award 2003 and 2005
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Publications

- Baumsteiger, J.** and P.B. Moyle. Assessing extinction: freshwater fishes. Submitting to *Frontiers in Ecology and the Environment*
- Sağlam, I.K., **Baumsteiger, J.**, and M.R. Miller. Calibrating gene trees with species divergence dates can result in severe over-estimation of mutation rates in recently diverged species: a commentary on Martin *et al.* 2015. Submitting to *Proceedings of the Royal Society B: Biological Sciences*
- Sağlam, I.K., **Baumsteiger, J.**, Smith, M.J., Smith, C.T., Linares-Casenave, J., Nichols, A.L., O'Rourke, S., and M.R. Miller. Phylogenetic analysis predicts a common origin of two scientific icons: Devils Hole and Devils Hole pupfish (*Cyprinodon diabolis*). *Molecular Ecology* - In revision.
- Baumsteiger, J.**, Kinziger, A.P., and A. Aguilar. Novel concordance between geographic and genetic structure in the widespread ecological generalist prickly sculpin (*Cottus asper*) in California. *Journal of Heredity* - In revision.
- Smith, C., **Baumsteiger, J.**, Ardren, W., Dettlaff, Y., Hawkins, D., and D. Van Doornik. 2015. Splitting a population by eliminating variation in age at spawning. *Journal of Fish and Wildlife Management* 6: 4-18.
- Takahashi, M., Eastman, J., Griffin, D., **Baumsteiger, J.**, Parris, M., and A. Storfer. 2014. A stable niche assumption-free test of ecological divergence. *Molecular Phylogenetics and Evolution* 76: 211-226
- Baumsteiger, J.**, Kinziger, A.P., Reid, S.B., and A. Aguilar. 2014. Complex phylogeography and historical hybridization between sister taxa of freshwater sculpin (*Cottus*). *Molecular Ecology* 23: 2602-2618
- Baumsteiger, J.** and A. Aguilar. 2014. Impact of dams on distribution and hybridization of two species of California freshwater sculpin (*Cottus*). *Conservation Genetics* 15: 729-742.
- Trumbo, D.R., Spear, S.F., **Baumsteiger, J.**, and A. Storfer. 2013. Rangewide landscape genetics of an endemic Pacific northwestern salamander. *Molecular Ecology* 22: 1250-1266.
- Aguilar, A., Douglas, R.B., Gordon, E., **Baumsteiger, J.** and M.O. Goldsworthy. 2013. Elevated genetic structure in the coastal tailed frog (*Ascaphus truei*) in managed redwood forests. *Journal of Heredity* 104: 202-216.
- Baumsteiger, J.**, Kinziger, A.P., and A. Aguilar. 2012. Life history and biogeographic diversification of an endemic western North American freshwater fish clade using a comparative species tree approach. *Molecular Phylogenetics and Evolution* 65: 940-952.
- Baumsteiger, J.** and A. Aguilar. 2012. Nine original microsatellite loci in prickly sculpin (*Cottus asper*) and their applicability to other closely related *Cottus* species. *Conservation Genetics Resources* 5: 279-282.
- Baumsteiger, J.**, Swift, H.F., Lehman, J.M., Heras, J., and L. Gomez-Daglio. 2010. Getting to the root of phylogenetics. *Frontiers of Biogeography* 2: 68-69.
- Johnson, J.R., **Baumsteiger, J.**, J.M. Hudson, Zydlewski, J. and W.R. Ardren. 2010. Relationship between sympatric life history forms of coastal cutthroat trout in two lower Columbia River tributaries. *North American Journal of Fisheries Management* 30: 691-701.
- Ardren, W.R., **Baumsteiger, J.**, Allen, C. and D.E. Campton. 2009. Genetic analysis of threatened Foskett Springs Speckled Dace. *Conservation Genetics* 11: 1299-1315.

- Kennedy, B.M., **Baumsteiger, J.**, Ostrand, K.G., Ardren, W.R., and W.L. Gale. 2009. Morphological, physiological, and genetic methods for improving field identification of steelhead trout, coastal cutthroat trout, and hybrid smolts. *Marine and Coastal Fisheries* 1: 45-56.
- Steele, C., **Baumsteiger, J.**, and A. Storfer. 2009. Influence of life history variation on the genetic structure of two sympatric salamander taxa. *Molecular Ecology* 18: 1629-1639.
- Baumsteiger, J.** and J. Kerby. 2009. The effectiveness of Chinook salmon carcasses as an alternative source of tissue for DNA extraction in conservation genetic studies. *North American Journal of Fisheries Management* 29: 40-49.
- Baumsteiger, J.**, Hand, D., Olson, D.E., Spateholts, R., FitzGerald, G.W. and W.R. Ardren. 2008. Parentage analysis reveals successful reproduction of hatchery-origin Chinook salmon outplanted into an Oregon stream. *North American Journal of Fisheries Management* 28: 1472-1485.
- Spear, S.F., **Baumsteiger, J.**, and A. Storfer. 2008. A newly developed suite of polymorphic microsatellite markers for the coastal tailed frog, *Ascaphus truei*. *Molecular Ecology Resources* 8: 936-938.
- Steele, C., **Baumsteiger, J.**, and A. Storfer. 2008. Development of microsatellite markers for *Dicamptodon copei* and *tenebrosus*. *Molecular Ecology Resources* 8: 1071-1073.
- Baumsteiger, J.**, Hankin, D., and E.J. Loudenslager. 2005. Genetic analysis of juvenile steelhead, coastal cutthroat trout, and their hybrids differ substantially from field identifications. *Transactions of the American Fisheries Society* 134: 829-840.

Professional Contributions

- Storfer, A., Spear, S., and **J. Baumsteiger**. Type N Progress Report – Fiscal Year 2006-2007, 2007-2008, 2008-2009 Contract IAA 06-47. WA Department of Natural Resources and Department of Fish and Wildlife
- Smith, C., **Baumsteiger, J.**, Diggs, M., Walden, S., and W.R. Ardren. Genetic analyses of Coho Salmon populations in Hood Canal: How similar genetically are hatchery and natural populations? USFWS Final Report 2007.
- Campton, D., W. Ardren, G. Zydlewski, J. Holmes, P. Crandell, K. Ostrand, W. Gale, **J. Baumsteiger, B.** Kennedy, S. Riley and D. Seilor, "Natural reproductive success and demographic effects of hatchery origin Steelhead in Abernathy Creek, Washington", 2004 Annual Report, Project No. 200306300, (BPA Report DOE/BP-00016522-1)(<http://www.efw.bpa.gov/Publications/A00016522-1.pdf>)

Conference Presentations

- Complex Phylogeography and Historical Hybridization of Two Endemic California Freshwater Sculpin (*Cottus*). June 2013. Evolution Meeting. Snowbird, UT.
- Origin, hybridization, and contemporary population structure of two native California freshwater sculpin using a comprehensive genetic approach. April 2013. California Nevada Chapter of the American Fisheries Society (AFS), Davis, CA.
- Comparative phylogeography and ecological niche modeling of two sister species of freshwater sculpin in California's Great Central Valley. August 2012. National AFS Meeting, St. Paul, MN.
- Historical biodiversity and species structure in California freshwater sculpin (*Cottus*). May, 2012. CA_NV AFS, San Diego, CA.
- Analysis of cryptic lineages within a morphologically indeterminate clade of freshwater sculpin (genus *Cottus*) along the west coast of North America. Poster. 2011 Evolution Meeting (Society for the Study of Evolution, the American Society of Naturalists and the Society of Systematic Biologists). Norman, OK.
- Parentage analysis reveals successful reproduction of hatchery-origin Chinook salmon outplanted into an Oregon stream. 2006 Coastwide Genetics Meeting, Santa Cruz, CA.
- Effectiveness of different levels of degraded Chinook salmon carcass tissue as DNA Template in Population Genetic Analysis. 2004 Coastwide Genetics Meeting, Newport, OR.
- Parentage analysis of outplanted Chinook salmon in Shitike Creek, OR. 2003 Deschutes River Ecological Interactions Workshop.

Special Qualifications

- Certified on Backpack Electroshocker (Smith Root, Inc.) 2010.
 - Helped build two genetics laboratories from the ground up (USFWS and HSU)
 - Radiation safety officer at UCLA (1998-1999)
 - Safety committee for USFWS for 3 years (2003-2006)
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