John R. Brandon, PhD

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LinkedIn Profile
Open Source Code on GitHub

John provides modeling and statistical support to his clients, including a National Science Foundation initiative for Fishery Science, and The Makah Tribal Council (Neah Bay, WA). Previously he worked as a staff environmental consultant, developing photo-identification, and point- and line-transect survey designs for ecological monitoring studies in Alaska and Canada.

Education

2003-2009 PhD, School of Aquatic and Fisheries Sciences, University of Washington (UW).

1994-1998 BSc, Ecology, Behavior and Evolution, University of California, San Diego (UCSD).

Additional Coursework

2015 High Performance Scientific Computing, Applied-Math-583, UW (Audited).

2001 Computer Intensive Statistical Techniques, SIO-279, Scripps Institute of Oceanography.

2000 UCSD Computer Science Extension:
Visual Basic II: Intermediate, CSE-40159.
Visual Basic III: Object Oriented Programming, CSE-40328.

Professional Positions

2016—present Population Dynamics and Statistical Consultant to the The Makah Tribal Council.

2014–present Management Strategy Consultant to a U.S. National Science Foundation's initiative for Fishery Science.

2009–2015 Biostatistician / Fisheries Scientist (Staff at LGL and Greeneridge Sciences, Inc.).

Applied Statistical Experience

- Simulation modeling of dynamic feedback systems
- Bayesian inference
- Regression / Generalized linear models
- Mixed-effects (hierarchical) models

Recent Computing Experience

- R %>% R Markdown
- Fortran 90/95 (GNU GCC)
- Git / GitHub
- AD Model Builder (C++ language expression for auto-differentiation)
