

SUZANNE H. ALONZO

CONTACT INFORMATION

Department of Ecology and Evolutionary Biology
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RESEARCH INTERESTS

Theoretical and empirical research on mating systems, sexual selection and life histories.

EDUCATION

University of California Santa Barbara	Ecology, Evolution, Marine Biology	PhD, 1998
University of California Berkeley	Integrative Biology, Summa cum laude	BA, 1992

PROFESSIONAL EXPERIENCE

Assistant Professor, Dept. of Ecology and Evolutionary Biology, Yale University (2004-present)
Assistant Researcher, Institute of Marine Sciences, Univ. of California Santa Cruz (2001- 2004)
NSF Postdoctoral Fellow, Environmental Studies, Univ. of California Santa Cruz (1998-2001)

HONORS AND AWARDS

Royal Society Short Visit Incoming Grants (2007)
Junior Faculty Sabbatical Fellowship, Yale University (2007-2008)
Endowed Postdoctoral Fellowship, Yale University (for a postdoctoral fellow) \$37,000 (2007-2008)
Anderson Postdoctoral Fellowship (support for K. Heckman) \$17,784 (2006-2007)
Postdoctoral Fellowship in the Biol. Sciences (for a postdoctoral fellow) \$35,568 (2005-2006)
Faculty of 1000 Contributor: Behavioral Ecology (Invited by: M Milinski, H Kokko, 2005)
National Science Foundation Post-Doctoral Fellowship in Biological Informatics (1999-2001)
National Science Foundation Doctoral Dissertation Improvement Grant (1997-1998)
American Association of University Women Dissertation Fellowship (1997-1998)
Animal Behavior Society Research Grant (1997-1998)
International Women's Fishing Association Graduate Scholarship Award (1997-1998)
National Science Foundation Pre-Doctoral Fellowship (1993-1997)
University of California Regent's Special Fellowship (1993-1998)
Sigma Xi Grant In Aid of Research (1997)
Undergraduate Departmental Citation (1993)

PUBLICATIONS

- 1) Henson SA (my previous name), Warner RR. 1997. Male and female alternative reproductive behaviors in fishes: A new approach using intersexual dynamics. *Annual Review of Ecology and Systematics*. 28: 571-92.
- 2) Alonzo SH, Warner RR. 1999. A tradeoff generated by sexual conflict: Mediterranean wrasse males refuse present mates to increase future success. *Behavioral Ecology* 10: 105-111.
- 3) Alonzo SH, Warner RR. 2000a. Female choice, conflict between the sexes and the evolution of male alternative reproductive behaviors. *Evolutionary Ecology Research* 2: 149-170.

- 4) Alonzo SH, Warner RR. 2000b. Dynamic games and field experiments examining intra- and inter-sexual conflict: Explaining counter-intuitive mating behavior in a Mediterranean wrasse, *Symphodus ocellatus*. Behavioral Ecology 11: 56-70.
- 5) Alonzo SH, Warner RR. 2000c. Allocation to mate guarding or increased sperm competition in a Mediterranean wrasse. American Naturalist 156: 266-275.
- 6) Alonzo SH, Taborsky M, Wirtz P. 2000. Male alternative reproductive behaviors in a Mediterranean wrasse, *Symphodus ocellatus*: Evidence from otoliths for separate life-history pathways. Evolutionary Ecology Research 2: 997-1007.
- 7) Alonzo SH, Mangel M. 2001. Survival strategies of krill: Avoiding predators in space, time and size. Marine Ecology Progress Series 209: 203-217
- 8) Alonzo SH, Sinervo B. 2001. Mate choice games, context-dependent good genes, and genetic cycles in the side-blotched lizard, *Uta stansburiana*. Behavioral Ecology and Sociobiology 49: 176-186.
- 9) Calsbeek R, Alonzo SH, Zamudio K, Sinervo B. 2002. Sexual selection and alternative mating behaviours generate demographic stochasticity in small populations. Royal Proceedings of the Royal Society Series B 269: 157-164.
- 10) Alonzo SH. 2002. State-dependent habitat selection games between predators and prey: the importance of behavioral interactions and expected lifetime reproductive success. Evolutionary Ecology Research 4: 759-778.
- 11) Alonzo SH, Mangel M. 2002. Effects of social behavior on survival and growth of krill: important, but how relevant? Marine Ecology Progress Series 244: 309-310.
- 12) Alonzo SH, Switzer P, Mangel M. 2003. Ecological games in space and time: the distribution and abundance of Antarctic krill and penguins. Ecology 86: 1598-1607.
- 13) Alonzo SH, Switzer P, Mangel M. 2003. An ecosystem-based approach to management: Using individual behaviour to predict the indirect effects of Antarctic krill fisheries on penguin foraging success. Journal of Applied Ecology 40: 692-702.
- 14) Alonzo SH, Mangel M. 2004. The effects of size-selective fisheries on the stock dynamics of and sperm limitation in sex changing fish: California sheephead (*Semicossyphus pulcher*) as an illustrative example. Fishery Bulletin 102: 1-13.
- 15) Alonzo SH. 2004. Uncertainty in territory quality affects the benefits of usurpation. Behavioral Ecology 15: 278-285.
- 16) Alonzo SH, Key M, Ish T, MacCall A. 2004. Status of the California Sheephead (*Semicossyphus pulcher*) stock. California Department of Fish and Game Report.
- 17) Alonzo SH, Mangel M. 2005. Sex change rules, stock dynamics, and the performance of spawning per recruit measures in protogynous stocks. Fishery Bulletin 203: 229-245.

18) Sinervo B, Chaine A, Clobert J, Calsbeek R, Hazard L, Lancaster L, McAdam AG, Alonzo S, Corrigan G, Hochberg ME. 2006. Self-recognition, colour signals, and genetic cycles of greenbeard mutualism and true altruism. PNAS USA 103:7372-7377.

19) Alonzo SH. 2007. Conflict between the sexes and cooperation within a sex can alter classic predictions of mating systems theory. *Evolutionary Ecology Research* 9:145-156.

20) Alonzo SH. In Press. Male and female alternative reproductive behaviors and conflict within and between the sexes. In: *Alternative Reproductive Tactics*. Ed. R. F. Oliveira, M Taborsky, J Brockmann. Cambridge University Press.

21) Alonzo SH, Ish T, Key M, MacCall A, Mangel. In Press. Life history as uncertainty: Variation within and among species in life history leads to uncertainty in assessment and stock dynamics. *Bulletin of Marine Science*.

22) Alonzo SH, Kindsvater HK. In Press. General Ecology: Life History Patterns. In: *Encyclopedia of Ecology*, Elsevier Press.

RESEARCH GRANTS

National Science Foundation Grant in Animal Behavior (2004-2007, \$296,849)

“A coevolutionary theory of male and female alternative reproductive behaviors: Combining phenotypic and genetic approaches”

National Science Foundation Grant in Animal Behavior (2001-2003, \$83,602)

“QEIB: A Comprehensive Theory of Mating Systems: Combining Intra- and Inter-sexual Conflict, Spatial Mating Games and Environmental Variation.”

INVITED SEMINARS

University of Kentucky (April 2007)

Stony Brook University (September 2006)

Cornell University (April 2006)

University of Illinois (April 2006)

University of Connecticut (March 2006)

Simon Fraser University (February 2005)

Yale University (February 2005)

University of Texas Austin (March 2003)

Pennsylvania State University (February 2003)

Yale University (December 2002)

Stockholm University (March 2002)

University of California Berkeley (Fall 1999)

University of California Santa Cruz (Winter 1999)

INVITED SPECIAL LECTURES AND SYMPOSIA:

Alonzo, SH. (2008) Invited Plenary Speaker, International Society for Behavioural Ecology Meeting. Cornell University.

Alonzo, SH. (2007) "Mating System Evolution", Fourth Kristineberg Symposium, Wenner-Gren Foundations (WGF), Organizers: M Andersson, S Arnold, M Thorndyke, B Tullberg.

Alonzo SH, Ish T, Key M, Mangel M, MacCall AD (2006). "Sex change, life history, and stock dynamics: assessing the status of the California sheephead, *Semicossyphus pulcher*." Mote International Symposium in Fisheries Ecology, Florida State University.

Alonzo SH. (2006) "Understanding conflict and cooperation within and between the sexes in the Mediterranean wrasse, *Symphodus ocellatus*" Organized Oral Session: The devil is in the detail: theory for empirical model systems, ESA Annual Meeting, Organizers: ON Bjornstad, P Amarasekare

INVITED WORKSHOPS AND PANELS

Biology of Prosocial Behavior, The Consulate of Switzerland (SHARE) and the University of Zurich Research Priority Program on the Foundations of Human Social Behavior (2007)

NSF Theoretical Biology Workshop, National Science Foundation (2006)

Scientific Committee for the Conservation of Antarctic Marine Living Resources, Working Group on Ecosystem Management and Monitoring (2003)

Conflict and Cooperation in Parental Care Workshop. Association for the Study of Animal Behaviour. Organizers: S Balshine-Earn, B Kempenaers, T Székely (August 2000)

NCEAS Working Group: The Evidence Project: Supporting scientific claims
Organizers: M. Taper, S. Lele, N. Lewin-Koh (1999-2000)

CONTRIBUTED PRESENTATIONS

Alonzo SH. 2006 "Sexual conflict and cooperation in the ocellated wrasse, *Symphodus ocellatus*. Evolution Annual Meeting. Stony Brook, New York

Heckman K, Alonzo SH. 2006. Phylogeography of the tessellated darter (*Etheostoma olmstedi*): Implications for post-glacial colonization. Evolution Annual Meeting. Stony Brook, New York

Alonzo SH. 2002. "A Comprehensive Theory of Mating Systems: Combining Intra- and Inter-sexual Conflict and Spatial Mating Games within a Life-History Perspective" ASAB Workshop on Sexual Conflict: A Life History Perspective. Organized by N Wedell and C Kvarnemo

Alonzo SH. Mangel M. 2002. Size-selective fisheries, sperm limitation and spawning per recruit in sex changing fish: California sheephead (*Semicossyphus pulcher*) as an illustrative example. Center for Stock Assessment Annual Meeting. Santa Cruz, California

Alonzo SH. 2002. A comprehensive theory of mating systems: Combining intra- and inter-sexual conflict and spatial mating games within a life-history perspective. Western Society of Naturalists Annual Meeting. Monterey, California

Alonzo SH. Mangel M. 1999. Modeling krill life-histories: The impact of predation on krill behavior. Second International Symposium on Krill. Santa Cruz, California

Alonzo SH. 1999. Sperm competition, mate guarding and sexual conflict. Evolution Annual Meeting. Madison, Wisconsin

Alonzo SH. Warner RR. 1998. The effect of conflict within and between the sexes on the evolution and expression of reproductive behaviors. International Society of Behavioral Ecology, Monterey, California

Alonzo SH. Warner RR. 1997. The effect of conflict within and between the sexes on reproductive behavior. International Ethological Congress. Vienna, Austria

OTHER SCIENTIFIC ACTIVITIES

Advisor, Climate Change, Krill Life Histories and Krill Fisheries, Lenfest Foundation (present)
Participant, Sexual Conflict: A new paradigm? Discussion Meeting, Royal Society of London (2005)
Leader, Stock Assessment for California Sheephead, CA Department of Fish and Game (2004).

PEER REVIEW ACTIVITIES:

Journals: American Naturalist, Animal Behavior, Behavioral Ecology, Biological Reviews, Canadian Journal of Fisheries and Aquatic Sciences, Ecological Society of America, Ethology, Evolution, Evolutionary Ecology Research, Ethology, Fishery Bulletin, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Heredity, Journal of Theoretical Biology, Marine Ecology Progress Series, Nature, Oecologia, Oikos, Philosophical Transactions of the Royal Society of London series B, Proceedings of the Royal Society of London series B, Quarterly Reviews of Biology, Theoretical Population Biology

Books: Princeton University Press, Cambridge University Press

Granting agencies: National Environment and Research Council (UK), Royal Society of London, National Science Foundation (USA), Swiss National Science Foundation

PROFESSIONAL MEMBERSHIPS: Society of American Naturalists, Ecological Society of America, International Society of Behavioral Ecology, North American Native Fish Association

PROFESSIONAL SERVICE:

Examiner, Graduate Qualifying Exam Committee, EEB, Yale University (2006)
Panelist, National Science Foundation Review Panel (2005, 2006)
Member, Research Scientist Promotion Review Committee, EEB Yale University (2005-2006)
Coordinator, Department of Ecology and Evolutionary Biology Seminar Series (2005-2006)
Advisor, Ecology and Evolutionary Biology Majors Class of 2006
Member, Yale Women Faculty Forum (2004-present)
Faculty Mentor, Women Mentoring Women Program, Yale (2005-present)

COURSES TAUGHT

Quantitative Methods in Evolution and Ecology (Yale, Spring 2007)
Principles in Ecology, Evolution and Behavior (Yale, Spring 2006)
Mathematical Models in Evolution and Ecology (Yale, Spring 2005)
Animal Behavior (Yale, Fall 2005, 2006)
Advanced Life-History Theory (UCSC, Spring 2000)
Advanced Ecological Theory (UCSC, Fall 1999)

UNDERGRADUATE ADVISING

Mark Fisher B.S. 2007 (Senior thesis advisor 2006-2007)
Miles Farmer B.S. 2007 (Senior thesis advisor 2006-2007)
Shannon Murtagh B.S. 2006 (Senior thesis advisor 2005-2006)
Elizabeth Mata (Sophomore advisor, self defined major 2005-2006)

GRADUATE STUDENTS

Erem Kazancioglu (Major advisor, third year, PhD)
Natasha Kelly (Major advisor, second year, PhD)
Holly Kindsvater (Major advisor, first year, PhD)

THESIS COMMITTEES

Dave Kysela (advisor: Paul Turner, Yale University)
Rob LeClerc (advisor: Gunter Wagner, Yale University)
Brooke Weaver-Miller (advisor: Barry Sinervo, University of California Santa Cruz)

POSTDOCTORAL FELLOWS

Kellie Heckman (Yale University Postdoctoral Fellowship in Biological Sciences 2005-present)
Bernard Brennan (National Science Foundation Grant, 2005-2006)

GRADUATE ROTATION STUDENTS: Christen Bossu (Spring 2007), Holly Kindsvater (Spring 2007),
Natasha Kelly (Summer 2006), Jura Pintar (Spring 2006), Erem Kazancioglu (Summer 2005)

PUBLIC SERVICE AND EDUCATION OUTREACH

Lecturer and mentor, Yale Peabody Museum 'Evolutions' and 'Expeditions' education outreach programs targeting middle and high school students from 'underrepresented groups' (2005, 2006)

Lead instructor, Animal Behavior and Ecology Course, California State Summer School in Mathematics and Science (COSMOS) at UC Santa Cruz (2002 and 2003). COSMOS is an academic residential program for talented and motivated high school students.

COLLABORATORS

R. Calsbeek (Dartmouth), A. Chaine (UC Santa Cruz), J. Clobert (CNRS Paris), G. Corrigan (UCSC), L. Hazard (UCSC), M.E. Hochberg (CNRS Montpellier), A.I. Houston (Univ. Bristol), T. Ish (UCSC), M. Key (CA DFG), L. Lancaster (UCSC), M. Mangel (UCSC), A. MacCall (NOAA Santa Cruz), A.G. McAdam (UCSC), J.N. McNamara (Univ. Bristol), B. Sinervo (UCSC), P. Switzer (Eastern Illinois University), M. Taborsky (University of Bern), P. Wirtz (Univ. da Madeira), K. Zamudio (Cornell)

ADVISORS

M. Mangel, University of California Santa Cruz (Post-doctoral advisor)
R. R. Warner, University of California Santa Barbara (Graduate advisor)
G. W. Barlow, University of California Berkeley (Undergraduate advisor)

REFERENCES

Professor Marc Mangel
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Professor John Endler
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University of Exeter
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Professor John McNamara
School of Mathematics
University of Bristol, University Walk
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tel: 011 44 117 928 7986
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