

**CURRICULUM VITAE
ANDREW SIH**

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VITAL STATISTICS:

Date of birth: March 10, 1954
Place of birth: New York, New York
Citizen: United States of America

EDUCATION:

1970-1974: State University of New York at Stony Brook, B.S.
Regents Scholarship of New York
1974-1980: University of California at Santa Barbara, M.A., Ph.D.
Regents Fellowship of California, Graduate Opportunity Fellowship of California

POST-PhD PROFESSIONAL EXPERIENCE:

1980: Senior biologist, Henningson, Durham and Richardson, Santa Barbara
1980-1981: Postdoctoral fellow, Ohio State University
1981-1982: Postdoctoral fellow, Michigan State University
1982: Postdoctoral fellow, University of California at Berkeley
1982-1987: Assistant professor, University of Kentucky
1987-1991: Associate professor, University of Kentucky
1991-2001 Professor, University of Kentucky
1998- 2001 Director, Center for Ecology, Evolution and Behavior, University of Kentucky
1999-2001 Marshall Hahn Sr. Endowed Professor of Biology, University of Kentucky
2001- 2006 Chair, Department of Environmental Sci & Policy, University of California,
Davis
2001- Professor, Dept Environmental Sci & Policy, U. California, Davis

POST-PhD HONORS AND AWARDS RECEIVED:

Murray F. Buell Award of the Ecological Society of America 1980
Ohio State University Postdoctoral Fellowship 1980-1981
National Science Foundation Postdoctoral Fellowship 1981-1982
University of Kentucky University Research Professorship 1996-1997
President, Animal Behavior Society 1997-2001
4-year track: 2nd president elect, 1st president elect, president, past president
ISI Current Contents 'Highly Cited Researcher' in Ecology/Environmental Science
Fellow, World Innovation Foundation
Fellow, Animal Behavior Society

FEDERAL GRANTS

National Science Foundation

- "History, natural selection and the traits and distribution of a salamander"
(co-P.I.- James Petranka)
BSR 85-00329 June 1985- June 1988 \$128,000
- "A facility for aquatic field experiments"
(co-P.I.- P.H. Crowley, J. Calkins, D. Harris and R.C. Sargent)
NSF EPSCoR 86-10671-11 October 1986- October 1991 \$219,684
- "Impact of predation on the microhabitat preferences of a headwater cyprinodontiform fish, Fundulus catenatus"
NSF EPSCoR Regional Universities Visiting Scholars Program
P.I.- Christine Barton, Michael Barton (Centre College; I was the host faculty member. May 1987- September 1987 \$10,700
- "Undergraduate research experience in aquatic ecology at the University of Kentucky"
(co-P.I. with P. Crowley, C. Barton, M. Barton and C. Sargent)
BBS 88-04517 June 1988- May 1989 \$40,000
- "The effect of predation by smallmouth bass on shelter use by mottled sculpins and crayfish"
NSF EPSCoR Regional Universities Visiting Scholars Program
P.I.- David McNeely (Morehead State University; I was the host faculty member)
May 1988- September 1988 \$8,915
- "Prey behavior and predator-prey coexistence in a patchy environment"
BSR 88-18028 January 1989- June 1991 \$120,000
- "Undergraduate research experience in aquatic ecology at the University of Kentucky"
(co-P.I. with P. Crowley, C. Barton, M. Barton and C. Sargent)
DIR 89-00163 April 1989- March 1992 \$120,000
- "The influence of competing demands on the mating dynamics of a semi-aquatic insect"
(co-P.I. - James Krupa)
BSR 90-20870 January 1991 - July 1993 \$200,000
- "Developing a center for evolutionary ecology at the University of Kentucky"
(co-P.I. with P. Crowley, S. Gleeson, R.C. Sargent and D. Westneat)
NSF-KY-EPSCoR EHR 91-08764 January 1992 - January 1995 \$815,000
- "Behavioral and ecological factors influencing the mating dynamics of a semi-aquatic insect" (co-PI - James Krupa)
IBN 92-21697 July 1993- June 1996 \$236,000

REU supplement	\$3,000
"Ecological variation and mate choice in a freshwater isopod: combining physiological and ecological approaches" (co-PI - Timothy Sparkes) Doctoral Dissertation Improvement Grant July 1994- December 1995	\$3,853
"Graduate training in evolutionary ecology at the University of Kentucky" (10 co-PIs) Graduate Research Traineeships July 1994- July 1999	\$783,500
"Ecological factors and behavioral mechanisms underlying sexual selection in a stream water strider with male-female conflict" (co-PI: James Krupa) NSF-IBN 95-14142 April 1996- March 2000 3 REU supplements	\$160,115 \$12,250
"Joint evolution of behavioral and morphological plasticity in multiple predation regimes" (co-PI: E.D. Brodie III and T.J. DeWitt) NSF-DEB 9618702 March 1997- February 2001 2 REU supplements	\$347,000 \$10,000
"Effects of predation risk and individual condition on multiple behavioral mechanisms underlying mating patterns in a stream-dwelling isopod" (PI: Timothy Sparkes) NSF-IBN September 1998- August 1999	\$33,000
"Behavioral carryovers, tradeoffs and performance correlations across situations" NSF IBN-0078033 September 2000- August 2005 3 REU supplements	\$326,844 \$15,750
"Examining genetic similarity, mating behavior, and fitness consequences in a simultaneous hermaphrodite" NSF Doctoral Dissertation Improvement Grant for Thomas McCarthy June 2001 – May 2003	\$10,275
"Key traits underlying invasion success: a comparison of Gambusia species" NSF Doctoral Dissertation Improvement Grant for Jennifer Rehage May 2002 – April 2004	\$9,944
"Pre-copulatory sexual cannibalism: the ecology of an extreme sexual conflict" NSF Doctoral Dissertation Improvement Grant for J. Chad Johnson August 2002 – July 2004	\$9,612

“Understanding predator-prey space use as an interactive game”
 NSF IOB-0446276 March 2005- March 2008 \$390,000
 REU supplement \$6,000

Environmental Protection Agency

“Models and mechanisms: understanding multiple stressor effects on an amphibian population”
 EPA/STAR (Co-PI with P. Crowley, A. Elskus, B. Palmer, B. Shepherd)
 December 2001-November 2004) \$522,832

National Center for Ecological Analysis and Synthesis

“Identifying and characterizing case studies of the successful use of basic ecological concepts to solve applied problems”
 July 1997- June 2000 \$88,533

National Institute of Mental Health

"Behavioral ecology and comparative neurobiology" (11 co-PIs)
 Research Training Grant
 October 1994- August 1999 \$375,000

National Sea Grant

“Aquatic nuisance species: a multi-stage approach to understanding the invasion ecology of exotic crayfish in northern and southern California”
 July 2003- June 2005 (Co-PI with Lee Kats) \$258,929

PUBLICATIONS:

1. Sih, A. 1977. Optimal foraging theory used to deduce the energy available in the environment. *Biotropica* 9:216.
2. Murdoch, W.W. and A. Sih. 1978. Age-dependent interference in a predatory insect. *Journal of Animal Ecology* 47:581-592.
3. Sih, A. 1979. Stability and prey behavioural responses to predator density. *Journal of Animal Ecology* 48:79-89.
4. Sih, A. 1979. Optimal diet: the relative importance of the parameters. *American Naturalist* 113:460-463.
5. Sih, A. 1980. Optimal foraging: partial consumption of prey. *American Naturalist* 116:281-290.
6. Sih, A. 1980. Optimal behavior: can foragers balance two conflicting demands ? *Science* 210:1041-1043.

7. Sih, A. and J. Dixon. 1981. Tests of some predictions of the MacArthur- Levins models: a critique. *American Naturalist* 117:550-559.
8. Sih, A. 1981. Stability, prey density and age-dependent interference in an aquatic insect predator, *Notonecta hoffmanni*. *Journal of Animal Ecology* 50:625-636.
9. Sih, A. 1982. Foraging strategies and the avoidance of predation by an aquatic insect, *Notonecta hoffmanni*. *Ecology* 63:786-796.
10. Sih, A. 1982. Optimal patch use: variations in selective pressure for efficient foraging. *American Naturalist* 120:666-685.
11. Sih, A. 1984. The behavioral response race between predator and prey. *American Naturalist* 123:143-150.
12. Sih, A. 1984. Optimal behavior and density-dependent predation. *American Naturalist* 123:314-326.
13. Sih, A. 1985. Evolution, predator avoidance and unsuccessful predation. *American Naturalist* 125:153-157.
14. Sih, A. and K.A. Milton. 1985. Optimal diet theory: should the !Kung eat mongongos ? *American Anthropologist* 87:395-401.
15. Sih, A., P. Crowley, M. McPeck, J. Petranka and K. Strohmeier. 1985. Predation, competition and prey communities: a review of field experiments. *Annual Review of Ecology and Systematics* 16:269-311.
16. Sih, A. 1986. Antipredator responses and the perception of danger by mosquito larvae. *Ecology* 67:434-441.
17. Petranka, J.W. and A. Sih. 1986. Environmental instability, competition and density-dependent growth and survivorship of a stream-dwelling salamander. *Ecology* 67:729-736.
18. Sih, A. 1987. Nutritional ecology of aquatic insect predators. Pgs. 579- 607 in *Nutritional ecology of insects, mites and spiders*, eds. F. Slansky and J.G. Rodriguez. Wiley Press.
19. Sih, A. 1987. Predators and prey lifestyles: an evolutionary and ecological overview. Pgs. 203-224 in *Predation: direct and indirect impacts on aquatic communities*, eds., W.C. Kerfoot and A. Sih. University Press of New England, Hanover, NH.
20. Kerfoot, W.C. and A. Sih. (Eds.). 1987. *Predation: direct and indirect impacts on aquatic communities*. University Press of New England, Hanover, NH.
21. Sih, A. 1987. Prey refuges and predator-prey stability. *Theoretical Population Biology* 31:1-12.

22. Petranka, J.W., L.B. Kats and A. Sih. 1987. Predator-prey interactions among fish and amphibians: the use of chemical cues to detect predatory fish. *Animal Behaviour* 35:420-425.
23. Petranka, J.W., A. Sih, L.B. Kats and J.R. Holomuzki. 1987. Stream drift, size-selective predation and the evolution of ovum size in an amphibian. *Oecologia* 71:624-630.
24. Petranka, J.W. and A. Sih. 1987. Habitat duration, length of the larval period and the evolution of a complex life cycle of an amphibian. *Evolution* 41:1347-1356.
25. Sih, A. and M-S. Baltus. 1987. Patch size, pollinator behavior and pollinator limitation in catnip. *Ecology* 68:1679-1690.
26. Sih, A. and K. Nishikawa. 1988. Do men and women really differ in publication rate and contentiousness? An empirical survey. *Bulletin of the Ecological Society of America* 69:15-18.
27. Sih, A., J.W. Petranka and L.B. Kats. 1988. The dynamics of prey refuge use: a model and tests with sunfish and salamander larvae. *American Naturalist* 132:463-483.
28. Sih, A. 1988. On analyzing complex relationships between behavior, state and fitness. *Behavioral and Brain Sciences* 11:148-149.
29. Kats, L.B., J.W. Petranka and A. Sih. 1988. Antipredator responses and the persistence of amphibian larvae with fishes. *Ecology* 69:1865-1870.
30. Sih, A. 1988. The effects of predators on habitat use, activity and mating behaviour of a semi-aquatic bug. *Animal Behaviour* 36:1846-1848.
31. Sih, A. 1988. Complex interactions in benthic and littoral communities. (Invited symposium review). *Bulletin of the Ecological Society of America* 69:226-228.
32. Sih, A. and J.W. Petranka. 1989. Optimal diets: a test of a model including simultaneous search and handling of multiple prey loads. *Behavioral Ecology and Sociobiology* 23:335-339.
33. Sih, A. 1989. Lake community ecology: complex interactions in lake communities. (Invited book review). *Trends in Ecology and Evolution* 4:356-358.
34. Sih, A., J. Krupa and S. Travers. 1990. An experimental study on the effects of predation risk and feeding regime on the mating behavior of the water strider, *Gerris remigis*. *American Naturalist* 135:284-290.
35. Sih, A. and R.D. Moore. 1990. Interacting effects of predator and prey behavior in determining diets. Pgs 771-796 in R.N. Hughes, ed., *Behavioural mechanisms of food selection*. NATO ASI Series. Springer-Verlag, Heidelberg, New York.

36. Krupa, J.J., W.R. Leopold and A. Sih. 1990. Behavioural shifts by female water striders in response to single males. *Behaviour* 115:247-253.
37. McNeely, D.R., B.N. Futrell and A. Sih. 1990. Experimental studies on the effects of crayfish on bass-sculpin interactions. *Oecologia* 85:69-73.
38. Huang, C. and A. Sih. 1990. Experimental studies on behaviorally-mediated indirect interactions through a shared predator. *Ecology* 71:1515-1522.
39. Crowley, P.H., D.R. DeVries and A. Sih. 1991. Inadvertent errors and error-constrained optimization: fallible foraging by bluegill sunfish. *Behavioral Ecology and Sociobiology* 27:135-144.
40. Crowley, P.H., S.E. Travers, M.C. Linton, S.L. Cohen, A. Sih, and R.C. Sargent. 1991. Mate density, predation risk and the seasonal sequence of mate choices: a dynamic game. *American Naturalist* 137:567-596.
41. Huang, C. and A. Sih. 1991. Experimental studies of direct and indirect interactions in a three trophic level stream system. *Oecologia* 85:530-536.
42. Huang, C. and A. Sih. 1991. An experimental study on the effects of salamander larvae on isopods in stream pools. *Freshwater Biology* 25:451-459.
43. Travers, S.E. and A. Sih. 1991. The influence of starvation and predators on the mating behavior of a semi-aquatic insect. *Ecology* 72:2123-2136.
44. Sih, A. and L.B. Kats. 1991. Effects of refuge availability on the responses of salamander larvae to chemical cues from predatory sunfish. *Animal Behavior* 42:330-332.
45. Sih, A. 1991. Reflections on the power of a grand paradigm. *Bulletin of the Ecological Society of America* 72:174-178.
46. Sih, A. 1992. Forager uncertainty and the balancing of antipredator and feeding needs. *American Naturalist* 139:1052-1069.
47. Kats, L.B. and A. Sih. 1992. Oviposition site selection and the avoidance of fish by small-mouthed salamanders (*Ambystoma barbouri*). *Copeia* 1992:468-473.
48. Sih, A. and E. Maurer. 1992. An experimental study of the effects of cryptic oviposition on the survival of stream-breeding streamside salamander eggs. *Journal of Herpetology* 26:114-116.
49. Sih, A., L.B. Kats and R.D. Moore. 1992. Effects of predatory sunfish on the density, drift and refuge use of stream salamander larvae. *Ecology* 73:1418-1430.

50. Sih, A. and J.J. Krupa. 1992. Predation risk, food deprivation and non- random mating by size in the stream water strider, *Aquarius remigis*. Behavioral Ecology and Sociobiology 31:51-56.
51. Sih, A. 1993. Effects of ecological interactions on forager diets: competition, predation risk, parasitism and prey behaviour. R.N. Hughes, ed., Diet Selection, pgs. 182-211. Blackwell Scientific Publications.
52. Sih, A. 1993. Integrative approaches to the study of predation: general thoughts and a case study on sunfish and salamander larvae. Annales Zoologici Fennici 29:1-16.
53. Sih, A. and R.D. Moore. 1993. Delayed hatching of salamander eggs in response to enhanced larval predation risk. American Naturalist 142:947-960.
54. Krupa, J.J. and A. Sih. 1993. Experimental studies on water strider mating dynamics: spatial variation in density and sex ratio. Behavioral Ecology and Sociobiology 33:107-120.
55. Sih, A. and D. Wooster. 1994. Prey behavior, prey dispersal and predator impacts on stream prey: models. Ecology 75:1199-1207.
56. Sih, A. and L.B. Kats. 1994. Age, experience and family effects on the response of salamander larvae to fish chemical cues. Ethology 96:253-259.
57. Rowe, L., G.A. Arnqvist, A. Sih and J.J. Krupa. 1994. Sexual conflict and the evolutionary ecology of water strider mating systems. Trends in Ecology and Evolution 9:289-293.
58. Sih, A. 1994. Predation risk and the evolutionary ecology of reproductive behaviour. Journal of Fish Biology 45A:111-130.
59. Wooster, D. and A. Sih. 1995. A review of the drift and activity responses of stream prey to predator presence. Oikos 73:3-8.
60. Sih, A. and J.J. Krupa. 1995. Interacting effects of predation risk, sex ratio and density on male/female conflicts and mating dynamics of stream water striders. Behavioral Ecology 6:316-325.
61. Dugatkin, L.A. and A. Sih. 1995. Behavioral ecology and the study of partner choice. Ethology (Special Essay on Contemporary Issues in Ethology) 99:
62. Tramontin, A.D. and A. Sih. 1995. An experimental study on the effects of food and density on voltinism in a stream dwelling water strider (*Aquarius remigis*). Freshwater Biology 34:61-67.
63. Sih, A. and S.K. Gleeson. 1995. A limits-oriented approach to evolutionary ecology. Trends in Ecology and Evolution 10:378-382.

64. Rowe, L., J.J. Krupa and A. Sih. 1996. An experimental test of condition-dependent mating behavior and habitat choice by water striders in the wild. *Behavioral Ecology* 7:474-479.
65. Arnqvist, G., L. Rowe, J.J. Krupa and A. Sih. 1996. Assortative mating in water striders. I. Meta-analyses of patterns. *Evolutionary Ecology* 10:265-284.
66. Sih, A. and J.J. Krupa. 1996. Direct and indirect effects of multiple enemies on water strider mating dynamics. *Oecologia* 105:179-188.
67. Maurer, E.F. and A. Sih. 1996. Ephemeral habitats and variation in behavior and life history: comparisons of sibling salamander species. *Oikos* 76:337-349.
68. Lauer, M.J., A. Sih and J.J. Krupa. 1996. Male density, female density and inter-sexual conflict in a stream-dwelling insect. *Animal Behavior* 52:929-939.
69. Moore, R.D., B. Newton and A. Sih. 1996. Delayed hatching as a response of streamside salamander eggs to chemical cues from predatory sunfish. *Oikos* 77:331-335.
70. Haskins, K.E., A. Sih and J.J. Krupa. 1997. Predation risk and social interference as factors influencing habitat selection in two species of stream-dwelling waterstriders. *Behavioral Ecology* 8:351-363.
71. Wooster, D.E., A. Sih and G. Englund. 1997. Prey dispersal and predator impacts on stream benthic prey. Pgs. 89-116 in *Evolutionary Ecology of Freshwater Animals. Concepts and Case Studies*, edited by B. Streit, T. Staedler and C. Lively.
72. Sih, A. 1997. To hide or not to hide? Refuge use in a fluctuating environment. *Trends in Ecology and Evolution* 12:375-376.
73. DeWitt, T.J., A. Sih. and D.S. Wilson. 1998. Costs and limits to benefits as constraints on the evolution of phenotypic plasticity. *Trends in Ecology and Evolution* 13:77-81.
74. Sih, A. 1998. Game theory and predator-prey response races. Pgs. 221-238 in *Game Theory and Animal Behavior*, edited by L.A. Dugatkin and H.K. Reeve, Oxford University Press.
75. Dugatkin, L.A. and A. Sih. 1998. Evolutionary ecology of partner choice. Pgs. 379-404 in *Cognitive Ecology*, edited by R. Dukas, University of Chicago Press.
76. Moses, J.L. and A. Sih. 1998. Effects of predation risk and food availability on the activity, habitat use, feeding and mating behavior of a pond water strider, *Gerris marginatus*. *Ethology* 104:661-669.
77. Krupa, J.J. and A. Sih. 1998. Fishing spiders, green sunfish, and a stream-dwelling water strider: male-female conflict and prey responses to single versus multiple predator environments. *Oecologia* 117:258-265.

78. Storfer, A. and A. Sih. 1998. Gene flow and ineffective antipredator behavior in a stream-dwelling salamander. *Evolution* 52:558-565.
79. Sih, A., G. Englund and D. Wooster. 1998. Emergent impacts of multiple predators on prey. *Trends in Ecology and Evolution* 13:350-355.
80. DeWitt, T.J., A. Sih and J.A. Hucko. 1999. Trait compensation and cospecialization in a freshwater snail: size, shape and antipredator behaviour. *Animal Behavior* 58:397-407.
81. Krupa, J.J. and A. Sih. 1999. Comparison of antipredator responses of two related water striders to a common predator. *Ethology* 105: 1019-1033.
82. Sih, A., R. Ziemba and K.C. Harding. 2000. New insights on how temporal variation in predation risk shapes prey behavior. *Trends in Ecology and Evolution* 15:3-4.
83. Sih, A., B.G. Jonsson, and G. Luikhart. 2000. Habitat loss: ecological, evolutionary and genetic consequences. *Trends in Ecology and Evolution* 15:132-134.
84. Sih, A., L.B. Kats and E.F. Maurer. 2000. Does phylogenetic inertia explain the evolution of ineffective antipredator behavior in a sunfish-salamander system? *Behavioral Ecology and Sociobiology* 49:48-56.
85. Sih, A. and B. Christensen. 2001. Optimal diet theory: when does it work and when and why does it fail? *Animal Behaviour* 61:379-390.
86. Sih, A. and J.M. Mateo. 2001. Punishment and persistence pay: a new model of territory establishment and space use. *Trends in Ecology and Evolution* 9:477-479.
87. Rehage, J.S., S.G. Lynn, A. Sih, B.D. Palmer, and J.I. Hammond. 2002. Effects of larval exposure to triphenyltin on the survival, growth, and behavior of larval and juvenile *Ambystoma barbouri*. *Environmental Toxicology and Chemistry* 21:807-815.
88. Sih, A. and T.M. McCarthy. 2002. Prey responses to pulses of risk versus pulses of safety: testing the risk allocation hypothesis. *Animal Behaviour* 63: 437-443.
89. Sih, A., M.Lauer and J.J. Krupa. 2002. Path analysis and relative importance of male-female conflict, female choice and male-male competition in water striders. *Animal Behaviour* 63:1079-1089.
90. Sih, A., L.B. Kats and E.F. Maurer. 2003. Behavioral correlations across situations and the evolution of antipredator behavior in a sunfish-salamander system. *Animal Behaviour* 65:29-44.
91. Garcia, T.S. and A. Sih. 2003. Color change and color-dependent behavior in response to predation risk in the salamander sister species, *Ambystoma barbouri* and *Ambystoma texanum*. *Oecologia* 137:131-139.

92. Garcia, T.S., R. Straus and A. Sih. 2003. Temperature and ontogenetic effects on color change in the larval salamander species, *Ambystoma barbouri* and *Ambystoma texanum*. *Canadian Journal of Zoology* 81:710-715.
93. Rohr, J.R., A.A. Elskus, B.S. Shepherd, P.H. Crowley, T.M. McCarthy, J.H. Niedzwiecki, A. Sih and B.D. Palmer. 2003. Lethal and sublethal effects of atrazine, carbaryl, endosulfan, and octylphenol on the streamside salamander, *Ambystoma barbouri*. *Environmental Toxicology and Chemistry* 22:2385-2392.
94. Sih, A. 2004. A behavioral ecological view of phenotypic plasticity. Pgs 112-125 in TJ DeWitt and S. Scheiner (eds), *Phenotypic Plasticity: Functional and Conceptual Approaches*. Oxford University Press.
95. Garcia, T.S., J. Stacy and A. Sih. 2004. Color change, refuge use and depth choice: plastic responses to ultraviolet radiation in two species of salamander larvae, *Ambystoma barbouri* and *A. texanum*. *Ecological Applications* 14:1055-1064.
96. Sih, A., A.M. Bell, J.C. Johnson, and R.E. Ziemba. 2004. Behavioral syndromes: an integrative overview. *Quarterly Review of Biology* 79:241-277.
97. Rehage, J.S. and A. Sih. 2004. Dispersal characteristics and boldness: a comparison of *Gambusia* species of varying invasiveness. *Biological Invasions* 6:379-391.
98. Rohr, J.R., A.A. Elskus, B.S. Shepherd, P.H. Crowley, T.M. McCarthy, J.H. Niedzwiecki, T. Sager, A. Sih and B.D. Palmer. 2004. Multiple stressors and streamside salamanders: effects of the herbicide atrazine and food limitation. *Ecological Applications* 14:1028-1040.
99. Sih, A., A.M. Bell and J.L. Kerby. 2004. Two stressors are far worse than one. *Trends in Ecology and Evolution* 19:274-276.
100. Sih, A., A.M. Bell and J.C. Johnson. 2004. Behavioral syndromes: an ecological and evolutionary overview. *Trends in Ecology and Evolution* 19:372-378.
101. Luttbegg, B.T. and A. Sih. 2004. Predator and prey habitat selection games: the effects of how prey balance foraging and predation risk. *Israel Journal of Zoology* 50: 233-254.
102. Sih, A., J. Kerby, A. Bell and R. Relyea. 2004. Response to Schmidt. Pesticides, mortality and population growth rate. *Trends in Ecology and Evolution* 19:480-481.
103. Rehage, J.S., Barnett, B. K. and A. Sih. 2004. Behavioral responses to novel predation and competition in invasive mosquitofish and their non-invasive relatives (*Gambusia* sp.). *Behavioral Ecology and Sociobiology* 57:256-266.
104. Sih, A., A.M. Bell, J.C. Johnson. 2004. Reply to Neff and Sherman. Behavioral syndromes versus Darwinian algorithms. *Trends in Ecology and Evolution* 19:622-623.

105. Sih, A., and J.V. Watters. 2005. The mix matters: behavioural types and group dynamics in water striders. *Behaviour* 142:1417-1431.
106. Gabriel, W., B. Luttbeg, A. Sih and R. Tollrian. 2005. Environmental tolerance, heterogeneity and the evolution of reversible plastic responses. *American Naturalist* 166:339-353.
107. Johnson JC and A. Sih. 2005. Precopulatory sexual cannibalism in fishing spiders (*Dolomedes triton*): a role for behavioral syndromes. *Behavioral Ecology and Sociobiology* 58:390-396.
108. Sih, A. 2005. Predator-prey space use as an emergent outcome of a behavioral response race. Pgs. 240-255 in *The Ecology of Predator-Prey Interactions*, edited by P. Barbosa and I. Castellanos. Oxford University Press.
109. Caro, T., J. Eadie, A. Sih. 2005. Use of substitute species in conservation biology. *Conservation Biology* 19:1821-1830.
110. Rehage JS, BK Barnett, A Sih. 2005. Foraging behaviour and invasiveness: do invasive *Gambusia* exhibit higher feeding rates and broader diets than their noninvasive relatives? *Ecology of Freshwater Fish* 14: 352-360.
111. Rohr, J.R., J.L. Kerby and A. Sih 2006. Community ecology as a framework for predicting contaminant effects. *Trends in Ecology and Evolution* 21:606-613.
112. Ajie, BC, LM Pintor, JS Watters, JL Kerby, JI Hammond, and A. Sih. 2007. A framework for determining the fitness consequences of antipredator behavior. *Behavioral Ecology* 18:267-271.
113. Hammond, JI, BT Luttbeg and A. Sih. 2007. Predator and prey space use: dragonflies and tadpoles in an interactive game. *Ecology* 88:1525-1535.
114. Johnson, J.C. and A. Sih. 2007. Fear, food, sex and parental care: asyndrome of boldness in the fishing spider (*Dolomedes triton*). *Animal Behaviour* (in press).
115. Sih, A. and A.M. Bell. 2007. Insights from behavioral syndromes for the evolutionary genetics of personality. *European Personality Reviews* (in press).
116. Vance-Chalcraft, HD, JR Vonesh, JA Rosenheim, CW Osenberg and A Sih. The influence of intraguild predation on prey suppression and prey release: a meta-analysis. *Ecology* (in press).
117. Bell, A.M. and A. Sih. Predation favors behavioral consistency between boldness and aggressiveness in threespined sticklebacks (*Gasterosteus aculeatus*). *Ecology Letters* (in press).
118. McElreath R., Luttbeg B., Fogarty, S.P., Brodin, T.L., & A. Sih. On the evolution of animal personalities. *Nature* (in press).

119. Ajie, B, MF Benard and A. Sih. The complexity of fear: prey behavioral and morphological responses depend on the interaction between predator foraging mode and habitat complexity. Submitted to *Oecologia*.

120. Orrock, JL, LM Dill, JH Grabowski, SD Peacor, BL Peckarsky, EL Preisser, A. Sih and EE Werner. Consumptive and non-consumptive effects of predators on meta-communities of competing prey. Submitted to *Ecology*.

121. Sih, A., Bolnick, D.I., Luttbeg, B., Orrock, J.L., Peacor, S.D., Pintor, L.M., Preisser, E., Rehage J. and Vonesh, J.R. Predator-prey naivete, antipredator behavior, and the ecology of predator invasions. Submitted to *Ecology*.

122. Orrock, J.L., L.M. Dill, J.H. Grabowski, S.D. Peacor, B.L. Peckarsky, E.L. Preisser, A. Sih, E.E. Werner. Remote control of prey by predators. Submitted to *Ecology Letters*.

123..Sih, A., D.E. Wooster and J.J. Krupa. Sex ratio and multiple behavioral mechanisms generating sexual selection. *American Naturalist* (revision in review).

124. Ziemba, R.E. and A. Sih. Spatial ecology and sexual selection: a model on the effects of socially-driven dispersal on local sex ratio, male-female interactions, and sexual selection. Submitted to *Behavioral Ecology and Sociobiology*..

IN PREPARATION:

Rehage, J.S., E.F. Maurer, E.N. Fischer, and A. Sih. Are all *Gambusia* equally invasive? Life histories, temperature and establishment success of four congeners. Submitted to *Ecology*.

McCarthy, T.M. and A. Sih. Genetic similarity influences mating behavior and reproductive success of a hermaphroditic freshwater snail, *Physa gyrina*. Submitted to the *Journal of Evolutionary Biology*

McCarthy, T.M. and A. Sih. Predation risk and partner-type influence mating interactions of a hermaphroditic freshwater snail, *Physa gyrina*.

Watters, J.V. and A. Sih. Food level and the ontogeny of behavioral types in stream water striders.

Sih, A, AM Bell and JC Johnson. Behavioral syndromes. To appear in DF Westneat and C. Fox, eds., *Evolutionary Behavioral Ecology*.

STUDENT PUBLICATIONS (selected papers by students working in my lab):

Sparkes, TC, DP Keogh and RA Pary. 1996. Energetic costs of mate guarding behavior in male stream-dwelling isopods. *Oecologia* 106:166-171.

Sparkes, TC. 1996. Effects of predation risk on population variation in adult size in a stream-dwelling isopod. *Oecologia* 106:85-92.

- Sparkes, TC.** 1996. The effects of size-dependent predation risk on the interaction between behavioral and life history traits in a stream-dwelling isopod. *Behavioral Ecology and Sociobiology* 39:411-417.
- Storfer, A.** 1999. Gene flow and local adaptation in a sunfish-salamander system. *Behavioral Ecology and Sociobiology* 46(4): 273-279.
- Storfer, A., J. Cross, V. Rush, and J. Caruso.** 1999. Adaptive coloration gene flow as a constraint to local adaptation in the streamside salamander, *Ambystoma barbouri*. *Evolution* 53(3): 889-898.
- Storfer, A.** 1999. Gene flow and population subdivision in the streamside salamander, *Ambystoma barbouri*. *Copeia* 1999(1): 174-181.
- Storfer, A.** 1999. Gene flow and endangered species translocations: A topic revisited. *Biological Conservation* 87: 173-180.
- Storfer, A.** 1996. Quantitative genetics: A promising approach for the assessment of genetic variation in endangered species. *Trends in Ecology and Evolution*. 11(8): 343-348.
- Moore, A. J., E. D. Brodie III & **J. B. Wolf** 1997. Interacting phenotypes and the evolutionary process: I. direct and indirect genetic effects of social interactions. *Evolution* 51:1352-1362.
- Wolf, J. B., A. J. Moore & E. D. Brodie III.** 1997. The evolution of indicator traits for parental quality: the role of maternal and paternal effects. *American Naturalist* 150:639-649.
- Wolf, J.B. and E.D. Brodie III.** 1998. Coadaptation of parental and offspring characters. *Evolution* 52:535-544.
- Wolf, J. B., E. D. Brodie III, J. M. Cheverud, A. J. Moore & M. J. Wade** 1998. Evolutionary consequences of indirect genetic effects. *Trends in Ecology & Evolution* 13:64-69.
- Wolf, J.B., E.D. Brodie III and M.J. Wade.** 2000. *Epistasis and the Evolutionary Process*. Oxford University Press, NY.
- Wooster, D.** 1998. Amphipod (*Gammarus minus*) responses to predators and predator impact on amphipod density. *Oecologia*, 115: 253-259.
- Arnqvist, G. and **D. Wooster.** 1995. Meta-analysis: synthesizing research findings in ecology and evolution. *Trends in Ecology and Evolution*, 10: 236-240.
- Wooster, D.** 1994. Predator impacts on stream benthic prey. *Oecologia*, 99: 7-15.
- Johnson, JC.** 2001. Sexual cannibalism and fecundity selection in fishing spiders (*Dolomedes triton*): an evaluation of two explanations for female aggression towards potential mates. *Animal Behaviour* 61:905-914.

INVITED RESEARCH SEMINARS (1990 on):

- 1990: Department of Zoology, University of British Columbia
 Department of Animal Ecology, University of Umea, Sweden (series of 5 seminars)
 Department of Integrative Biology, University of California at Berkeley
 Department of Zoology, University of Oxford
 Department of Zoology, Uppsala University
 Department of Zoology, University of Helsinki
 School of Biological Sciences, Queen Mary College, University of London
 Department of Zoology, University of Bristol

- Department of Zoology, University of Glasgow
 Department of Zoology, University of Edinburgh
 Centre for Population Biology, Silwood Park, Imperial College
- 1991: Center for Population Biology, University of California at Davis
 Department of Integrative Biology, University of California at Berkeley
 Department of Biological Sciences, Florida State University
 Section of Ecology and Systematics, Cornell University
 Conference on Animal Behavior and Learning, Dept of Psychology, U. Kentucky
 Nordic Short Course in Antipredator Behavior, University of Jyvaskyla, Finland
- 1992: Department of Biological Sciences, Dartmouth College
 Nordic Short Course in Life History Theory, University of Bergen, Norway
 Department of Animal Ecology, University of Umea, Sweden
 Department of Entomology, University of Kentucky
- 1993: Department of Biological Sciences, University of California at Santa Barbara
 Department of Ecology and Evolutionary Biology, University of California at Irvine
 Department of Biology, Miami University, Florida
 Midwest Population Biology Conference, University of Kansas
- 1994: Department of Biological Sciences, State University of New York at Binghamton
 Fisheries Society of the British Isles, full-length invited seminar
 Department of Biological Sciences, Rutgers University
 Department of Biology, Eastern Kentucky University
 Department of Biology, Indiana University
- 1995: Department of Zoology, Ohio State University
 Animal Behavior Society, invited talk at a symposium on game theory
 European Society for Evolutionary Biology, Edinburgh, Scotland
 Department of Biological Sciences, University of Bristol, England
 Institute for Ecology and Evolution, University of Leiden, Netherlands,
- 1996: Winter Animal Behavior Conference (32 invited participants), Jackson Hole, Wyoming
 Department of Zoology, University of Toronto
 Department of Zoology, University of Maryland
 Eminent Ecologist Lecture Series, Kellogg Biological Station
 Department of Biology, University of Louisville
 Department of Life Sciences, Indiana State University
 Department of Biology, University of Missouri at St. Louis
- 1997: Ecological Society of America, invited talk at a symposium on multiple predators
 Department of Biological Sciences, Purdue University
 Department of Biological Sciences, Florida International University
 Department of Entomology, University of Kentucky
- 1998: Illinois Natural History Survey, University of Illinois
 Department of Entomology, University of Maryland
 National Center for Ecological Analysis and Synthesis, Santa Barbara
 Center for Population Biology, University of California at Davis (5 lectures)
 Department of Ecology, Lund University, Sweden (3 seminars)
- 1999: Department of Ecology and Systematics, University of Helsinki
 Department of Biology, Washington University
 Department of Biology, University of California at Santa Cruz

Department of Zoology, University of Tennessee
 2000: The Griswold Lecture (an endowed lecture series), Cornell University
 Department of Biology, Stanford University
 Department of Animal Ecology, Lund University, Sweden
 Department of Biology, University of Illinois, Chicago
 Department of Biology, University of Oregon
 Department of Biology, Duke University
 Department of Environmental Science and Policy, University of California at Davis
 2001: Winter Animal Behavior Conference, Jackson Hole, WY
 National Center for Ecological Analysis and Synthesis, Santa Barbara, CA
 Midwest Animal Behavior Conference, plenary talk, University of Missouri
 Department of Biological Sciences, State University of New York at Binghamton
 Department of Biology, Dartmouth College
 Department of Zoology, University of Florida
 Quebec Animal Behavior Conference, Trois Rivieres, opening plenary talk
 Department of Neurobiology, Physiology & Behavior, University of California at Davis
 Community Ecology seminar series, University of California at Davis
 2002: Center for Population Biology, University of California at Davis
 Department of Evolution, Population and Organismal Biology, U. Colorado
 Department of Biological Sciences, U. Nevada at Reno
 Department of Animal Ecology, University of Zurich, Switzerland
 2003: Winter Animal Behavior Conference, Jackson Hole, WY
 Department of Biological Sciences, California State University, Chico
 Department of Biology, San Francisco State University
 Department of Biological Sciences, Texas Tech University
 Department of Ecology and Evolutionary Biology, University of Minnesota
 Department of Zoology, Oregon State University
 Department of Ecology and Evolutionary Biology, University of Michigan
 2004: Winter Animal Behavior Conference, Breckenridge, CO
 Department of Ecology and Evolution, University of Chicago
 Institute of Mind and Biology, University of Chicago
 Ecological Society of America, invited symposium talk, Portland, OR
 European Congress for Behavioral Biology, invited symposium talk
 Department of Environmental & Evolutionary Biology, University of Glasgow, Scotland
 Department of Zoology, University of Cambridge, Great Britain
 Netherlands Institute of Ecology, Wageningen, Netherlands
 Workshop on Evolution of Human and Animal Personalities, Wageningen
 Department of Biology, University of Groningen, Netherlands
 Department of Ecology and Evolution, University of California, Los Angeles
 2005: Winter Animal Behavior Conference, Steamboat Springs, CO
 Department of Integrative Biology, Brigham Young University
 Ecology and Evolution Seminar Series, University of California at Davis
 School of Biological Sciences, Washington State University
 Initiative in Organismal Interactions, WSU/U. Idaho, keynote speaker
 Animal Behavior Society, Snowbird, Utah, invited talk
 Hopkins Marine Laboratory, Stanford University

2006: Winter Animal Behavior Conference, Steamboat Springs, CO
 Department of Ecology and Evolutionary Biology, U. California at Santa Cruz
 Gordon Conference on Genes and Behavior, opening plenary talk
 Center for Insect Science, University of Arizona
 Department of Biological Sciences, Northern Arizona University
 Department of Entomology, University of California, Davis
 International Society for Behavioral Ecology, Tours, France, symposium talk
 Animal Behavior Society, symposium talk
 Department of Biology, Bowling Green University
 Department of Biological Sciences, University of Kentucky

2007: Behavioral Ecology Group, State University of NY/Stony Brook
 Department of Ecology and Evolutionary Biology, Rice University
 Department of Integrative Biology, U. California, Berkeley
 International Ethology Conference, Halifax, Nova Scotia, symposium talk
 Department of Natural Sciences, Arizona State University, West campus
 School of Life Sciences, Arizona State University, Tempe
 Theory in Ecology workshop, University of Connecticut

INVITED PROFESSIONAL ACTIVITIES:

Panel member, National Science Foundation
 Population Biology and Physiological Ecology panel - 1991
 Conservation and Restoration Biology panel - 1992
 Population Biology panel – 1996
 Animal Behavior panel – 2000, 2002

National Center for Ecological Analysis and Synthesis
 Consultant – 1992

National Center for Ecological Analysis and Synthesis, working groups
 Ecology success stories, 1997-2000
 Reversible plasticity, 2001
 Ecology of fear, 2005-7
 Marine predation, 2006-
 Pelagic Organismal Decline, 2007-

Workshop participant, Metadata workshop, Cornell University – 2004
 Workshop participant, ESA/NSF workshop on data sharing, Washington, DC – 2004
 Workshop participant, Predation in the Clifton Court Forebay – 2005
 Workshop participant, Theory in Ecology - 2007

Editorial Board, American Naturalist, 1997- 2000
 Editorial Board, Ecology, 2003-
 Editorial Board, Research Letters in Ecology, 2007-

Outside reviewer for the National Science Foundation and several other funding agencies
 Reviewer of manuscripts for numerous journals: American Anthropologist, American Midland
 Naturalist, American Naturalist, Animal Behavior, Behavioral Ecology, Behavioral Ecology

and Sociobiology, Behaviour, Bioscience, Canadian Journal of Zoology, Copeia, Ecological Entomology, Ecology, Ecology Letters, Ecological Applications, Ethology, Freshwater Biology, Functional Ecology, Herpetologica, Human Ecology, Hydrobiologia, Journal of Animal Ecology, Journal of Avian Biology, Journal of the North American Benthological Society, Journal of Theoretical Biology, Journal of Evolutionary Biology, Nature, Oecologia, Oikos, PLOS Biology, Proceedings of the National Academy of Sciences, Science, Theoretical Population Biology, Trends in Ecology and Evolution

TEACHING EXPERIENCE (University of Kentucky):

BIO 104 Animal Biology
BIO 152 Introductory Biology
BIO 325 Introductory Ecology
BIO 608 Behavioral Ecology and Life Histories
BIO 609 Population and Community Ecology
BIO 613 Behavioral Ecology and Comparative Neurobiology
BIO 660 Advanced Animal Ecology

University of California at Davis

ANB 218B Graduate core course in animal behavior
ANB 230 Advanced topics in animal behavior
ESP 100 Introductory Ecology
PBG 200 Population Biology

POSTDOCTORAL ASSOCIATES:

Petranka, James, (Ph.D., 1982, University of Kentucky), September 1982-June 1986 - Dr.

Petranka and I worked together on various aspects of the evolutionary ecology of small-mouthed salamander larvae, *Ambystoma texanum*. Dr. Petranka is now a full professor at the University of North Carolina at Asheville.

Holomuzki, Joseph, (Ph.D., 1985, Arizona State University), February 1986-June 1987 -

Ecological consequences of behavioral responses of isopods to green sunfish. Dr. Holomuzki is now a professor at a branch of Ohio State University.

Krupa, James (Ph.D., 1987, University of Oklahoma), April 1988-August 1996; Dr. Krupa and I worked together on a NSF funded project examining the effects of competing demands on habitat use, activity and mating behavior of water striders, *Aquarius remigis* in a patchy stream environment. Jim is now an assistant professor at the University of Kentucky.

Rowe, Locke (Ph.D. 1992, University of British Columbia), January 1993- June 1993; Dr. Rowe was funded by his own Canadian NSERC postdoctoral fellowship. We collaborated on a blend of theoretical and experimental studies on water strider behavior and evolution of life cycle switch points. Dr. Rowe was a 1993 winner of the American Naturalist's Young Investigator Prize and is now a full professor at the University of Toronto.

Dugatkin, Lee (Ph.D. 1990, SUNY/Binghamton), July 1992- June 1994; Dr. Dugatkin was funded by his own NSF postdoctoral fellowship. We worked together on issues relating to behavioral choices (in particular, partner choice) at several levels of scale. Dr. Dugatkin won Young Investigator's Prizes from both the American Society of Naturalists and from the Animal Behavior Society. He is now a full professor at the University of Louisville.

DeWitt, Thomas (Ph.D. 1995, SUNY/Binghamton), August 1995- March 1998 ; Dr. DeWitt and I are co-PIs on a NSF grant addressing the joint evolution of behavior and induced morphology, in response to multiple, conflicting selection pressures. Our study system involves snail responses to fish and crayfish. DeWitt is now an associate professor at Texas A&M University.

Maurer, Eric (Ph.D., University of Kansas), August 1995- June 1999 ; Dr. Maurer used a comparative approach to investigate behavioral and life history traits that underlie large differences among species within one genus (*Gambusia*, mosquito fish) in distributional range. Dr. Maurer is now the Director of the Environmental Studies program at the University of Cincinnati.

Englund, Goran (Ph.D., University of Umea, Sweden), January 1996- June 1997; Dr. Englund was funded by a grant from the Swedish NSF to work with me on effects of scale and prey dispersal among patches on predator impacts in streams. He is now a research scientist at the University of Umea.

Wooster, Dave (Ph.D., University of Kentucky), February 1997- June 1998. Dr. Wooster worked with me on the ecology of sexual selection in water striders. Wooster is now an assistant professor position at a branch campus of Oregon State University.

Tim Sparkes (Ph.D., University of Kentucky), September 1998- July 2000. Dr. Sparkes and I worked on a NSF grant to study effects of predation risk and individual condition on multiple behavioral mechanisms underlying mating patterns in a stream isopod. He is now an associate professor at DePaul University

Karen Warkentin (Ph.D., University of Texas), September 1998- August 2001. Dr. Warkentin and I worked together on the evolution and fitness consequences of variation in egg size and hatching behavior in amphibians. She is now an assistant professor at Boston University.

Robert Ziemba (PhD., Arizona State University), January 1999- July 2001. Dr. Ziemba collaborated with me on models and experiments on the ecology of sexual selection in water striders. Ziemba is now an assistant professor position at Centre College.

Jason Watters (PhD, University of California at Davis), March 2003 – September 2006. Dr. Watters worked with me on behavioral syndromes in water striders. He is now a senior behavioral scientist at the Brookfield Zoo, Chicago, IL.

Alison Bell (PhD, University of California at Davis), October 2005 – July 2006. Dr. Bell and I collaborated on conceptual aspects of behavioral syndromes, as well as experimental work on correlational selection on boldness and aggression in sticklebacks. Alison is now an assistant professor at the University of Illinois.

Barney Luttbeg (PhD, University of California at Davis), August 2003 – on. Dr. Luttbeg is collaborating with me on models and experiments on the predator-prey space race. We are also working together on models of adaptive behavioral syndromes.

Brodin, Tomas (PhD, University of Umea, Sweden), March 2007 – on. Dr. Brodin is working with me on several projects examining predator-prey and mating behaviors in aquatic organisms.

THESES AND DISSERTATIONS DIRECTED:

Kats, Lee, Ph.D. (May 1989) - Prey behavior and the predator-prey interaction between sunfish and salamander larvae. Dr. Kats is now a professor and Associate Dean at Pepperdine University.

Travers, Steve, M.S. (May 1989) - Effects of predation risk and hunger on mating duration of a bug. He is currently a postdoc at Kansas State University.

Huang, Chifu, M.S. (May 1990) Direct and indirect interactions between sunfish, salamander larvae and isopods. Now a research scientist at the University of Kentucky.

Maurer, Eric, M.S. (May 1992) - Evolution of feeding behavior and effects on feeding, growth and development of salamander larvae. Now the Director of the Environmental Studies program at the University of Cincinnati.

Martin, Mike, M.S. (May 1992) - Food, density and size-dependent behavior, growth and drift of small-mouthed salamander larvae. Now an engineer.

Moore, Robert, M.S. (May 1993) - Effects of predation risk on life history switch points of two species of aquatic salamander larvae: *Ambystoma barbouri* and *Ambystoma texanum*. Now a computer network specialist at the University of Nevada at Reno.

Haskins, Kris, M.S. (December 1995) - Mating interactions, antipredator behavior and the distribution of two species of stream water strider. Recently completed a PhD at Northern Arizona University. Now a research scientist at the Flagstaff Arboretum.

Sparkes, Tim, PhD. (May 1996) - The effects of size-dependent predation and physiological variation on the evolution of behavior and life history of freshwater isopods. Sparkes is now an associate professor at DePaul University.

Lauer, Michael, PhD. (June 1996) - Effects of ecological factors on male-female behavioral conflicts that govern water strider mating patterns. Lauer left science after not getting tenure at a liberal arts college.

Wooster, David, PhD. (January 1997) - Prey behavior and interacting effects of vertebrate and invertebrate predators on stream benthic prey. Wooster is now an assistant professor at a branch campus of Oregon State University.

Storfer, Andrew, PhD. (September 1997) - Gene flow and local adaptation in a salamander metapopulation. Storfer won the 1997 Allee award from the Animal Behavior Society. He is now an associate professor at Washington State University.

Wolf, Jason, PhD. (April 1998) – Models of indirect genetic effects and their influence on the evolution of social behavior. Jason won the 1999 Dobzhansky Prize from the Society for the Study of Evolution and the 2000 American Society of Naturalists Young Investigator Prize. Jason is now an associate professor at the University of Manchester.

Grill, Chris, PhD (April 1998) - Genetics, maternal effects and phenotypic plasticity in the color of a ladybird beetle. Co-advised with Allen Moore. Chris left science.

Sadowski, Jen, PhD (December 1999) - Evolution of sexually selected male characteristics and female preferences in the striped ground cricket. Co-advised with Allen Moore. Jenn is now an assistant professor at Viterbo College.

Garcia, Tiffany, PhD. (June 2002) – Joint color and behavioral responses to multiple selection pressures: a comparison of sister species of salamanders. Tiffany is now an assistant professor at Oregon State University

McCarthy, Tom, PhD (June 2003) – Inbreeding and mate choice in hermaphroditic snails. Tom is now an assistant professor at Utica College.

Johnson, Chad, PhD (June 2003) – Behavioral correlations and the evolution of sexual cannibalism in fishing spiders. Chad is now an assistant professor at Arizona State University-West.

Rehage, Jennifer, PhD (June 2003) – *Gambusia* as a model system for studying traits associated with narrow, non-invasive vs. broadly distributed, invasive species. Jenn is now an assistant professor at Nova Southeastern University.

Crumrine, Patrick, PhD (June 2003) - Intraguild predation and multiple predator effects on predator-prey behavior and predation rates in a fish-odonate system. Co-advised with Phil Crowley. Patrick is an assistant professor at Longwood University.

Dickey, Brad, PhD (June 2004) - An integrative approach to understanding dominance hierarchies: models and experiments. Co-advised with Phil Crowley. Brad now works for a think tank near Washington D.C.

Niedzwiecki, John, PhD (June 2005) – Speciation and phylogenetic inertia associated with colonization of *Ambystoma* from ponds to streams. Co-advised with Phil Crowley. John is now a postdoc at U. Cincinnati.

Kerby, Jake, PhD (Dec 2006) – Pesticide effects on predator-prey behaviors and species interactions in a three trophic level aquatic community. Jake is now a postdoc at Washington State U.

Pintor, Lauren, PhD (September 2007) – Evolution, behavior and the invasion ecology of signal crayfish. Lauren is funded by a grant from the National Sea Grant program. Lauren is now a postdoc at U. Illinois, Chicago.

Hammond, John, PhD (began Fall 2000) – Experimental and theoretical studies on the predator-prey space race. Funded by a NSF 3-year predoctoral fellowship.

Ajie, Beverly, PhD (began Fall 2002) – Effects of multiple predators on the joint evolution of morphology, life history and behavioral syndromes in a freshwater snail. Beverly is funded by a NSF 3-year predoctoral fellowship, and by UC/Davis fellowships.

Conrad, Louise, PhD (began Fall 2001, switched to my lab in 2004) – Behavioral syndromes and growth and dispersal of hatchery salmon. Louise is a research scientist at the Warm Springs Fish Hatchery.

Brenneis, Valance, PhD (began Fall 2004) – Impacts of invasive New Zealand mudsnails on community and ecosystem dynamics. Val is funded by a NSF 3-year predoctoral fellowship.

Iglesias, Teresa, PhD (began Fall 2004) – Behavioral responses to dead or diseased conspecifics. Teresa is funded by a Gates Millenium Fellowship.

Fogarty, Sean, PhD (began Fall 2006) – Integrating game theory and social network theory. Sean is funded by a UC/Davis fellowship.

Saltz, Julia, PhD (began Fall 2006) – Behavioral aspects of disease transmission. Julia is funded by a 3-year Department of Defense graduate fellowship

Smith, Kelly, PhD (began Fall 2007) – undecided topic. Kelly is funded by a UC/Davis fellowship.

GRADUATE COMMITTEES –

University of Kentucky: I typically served on 15-20 graduate committees besides those of my own students.

I have also served on the committees of students at other universities.

University of Indiana: Cerise Allen, Stephanie Welter (advisor for both: Butch Brodie III)

University of Louisville: Ryan Early (advisor: Lee Dugatkin)

University of California at Davis:

Animal Behavior Graduate Group: Ted Stankowich

Center for Population Biology: Alison Bell, Mike Benard, Ben Fitzpatrick

Graduate Group in Ecology: Lisa Dorn, Kristing Hultgren, Mikaela Huntzinger, Evan Preisser, Brent Sewall, Hillary Swarts

UNDERGRADUATE RESEARCH PROJECTS DIRECTED (U. Kentucky):

Patricia Robertson, Beth Pierce, Julie Smoak, Laura Letson, Miriam Obedala, Karen Thompson, William Moore, Jill Willenbrink, Jay Craddock, Amie Dougherty, Kris Haskins, Tony Tramontin, Blake Newton, Amy Katz, Jenni Moses, Daniella Deman, John Trumbo, Anna-Liise Laine, Kathleen LaCasse, Michelle Martin, Jennifer Richardson, Beverly Barnett, Kendra Bauer, Tina LaDeur, Brian Black, Jennifer Bengel, Erich Marks. Postdocs and graduate students in my laboratory have supervised over twenty other undergraduate research projects.

UC/Davis: Risa Naito, Beth Jay, Ryohei Hinokuma, Sabra Purdy, Winnie Ho, Neil Milan, Miko Echizen, Tracy Teach, Morgan Gray, Marina Kasa, Marissa Bauer, Susan Pike, Kari Fish, Deb Seiler, Megan Kruft, Alison Chan, Stephen Burkholder, Lauren Valverde, Brett Hanshew, Ryan Gilpin

