SCOTT ALAN CHAMBERLAIN

CURRICULUM VITAE

DEPT. OF ECOLOGY & EVOLUTIONARY BIOLOGY • RICE UNIVERSITY • MS-170 6100 MAIN STREET • HOUSTON, TX 77005 • USA

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WEB http://schamber.wordpress.com/ • BLOG http://r-ecology.blogspot.com/ CODE https://github.com/SChamberlain

APPOINTMENTS

2012-2014	Canadian Pollination Initiative (CANPOLIN) Postdoctoral Fellow
	Simon Fraser University
2011-pres	Associate Editor and Blogger, Journal of Ecology

EDUCATION

2008-(expecte	ed Sprin	g '12) Ph.D. Dept. of Ecology & Evolutionary Biology, Rice University
2009	M.A.	Dept. of Ecology & Evolutionary Biology, Rice University
2005		Dept. of Entomology, University of Arizona.
2003	B.S.	Biological Sciences, California State University

PUBLICATIONS(undergraduate students are <u>underlined</u>)

- 13. **Chamberlain, S.A.**, S.M. Hovick,...et al...K.D. Whitney. (In review). Does phylogeny matter? Assessing the impact of phylogenetic information in ecological meta-analysis. **Ecology Letters**.
- 12. **Chamberlain, S.A.**, & J.A. Rudgers. 2012. How do plants balance multiple mutualists? Correlations among traits for attracting protective bodyguards and pollinators in cotton (Gossypium). **Evolutionary Ecology** 26:65-77.
- 11. Holland, J.N., **Chamberlain, S.A.** and T.E.X. Miller. 2011. Consequences of ants and extrafloral nectar for a pollinating seed-consuming mutualism: ant satiation, floral distraction, or plant defense? **Oikos**.
- 10. **Chamberlain, S.A.,** J.K. Kilpatrick, & J.N. Holland. 2010. Do extrafloral nectar resources, abundances, and body sizes contribute to the structure of ant-plant mutualistic networks? **Oecologia** 164:741-750.
- 9. Holland, J.N., **Chamberlain, S.A.,**& K.C. Horn. 2010. Temporal variation in extrafloral nectar secretion by reproductive tissues of the senita cactus, *Pachycereus schottii* (Cactaceae), in the Sonoran Desert of Mexico. **Journal of Arid Environments** 74(6):712-714.
- 8. **Chamberlain, S.A.**, & J.N. Holland. 2009. Quantitative synthesis of context-dependency in ant-plant protection mutualisms. **Ecology**90(9):2384-2392.
- 7. Holland, J.N., **S.A.Chamberlain**, <u>A.M. Waguespack</u>, and A.S. Kinyo. 2009. Effects of pollen load and donor diversity on variation in seed and fruit size in a columnar cactus, *Pachycereus schottii* (Cactaceae). **International Journal of Plant Sciences** 170:467-475.
- 6. **Chamberlain, S.A.**& J.N. Holland. 2009. Body size predicts degree in ant-plant mutualistic networks. **Functional Ecology**23:196-202.

5. Holland, J.N., **Chamberlain, S.A.,**& K.C. Horn. 2009. Constitutive and induced extrafloral nectar production: optimal defense theory predicts plant resource investment in a protection mutualism. **Journal of Ecology** 97(1):89-96.

- 4. **Chamberlain, S.A**. & J.N. Holland. 2008. Density-mediated and context-dependent consumer-resource interactions between ants and extrafloral nectar plants. **Ecology** 89(5):1364-1374.
- 3. **Chamberlain, S.A.**& R.A. Schlising. 2008. Role of honey bees (Hymenoptera: Apidae) in the pollination biology of a California native plant, *Triteleia laxa* (Asparagales: Themidaceae). **Environmental Entomology** 37(3):808-816.
- 2. Holland, J.N. &S.A. Chamberlain. 2007. Ecological and evolutionary mechanisms for low seed:ovule ratios: need for a pluralistic approach? Ecology 88(3):706-715.
- 1. Schlising, R.A. &S.A. Chamberlain. 2006. Biology of the geophytic lily, *Triteleia laxa* (Themidaceae), in grasslands of the Northern Sacramento Valley. **Madroño** 53(4):321-341.

PUBLICATIONS –IN PREPARATION

Chamberlain, S.A., J.A. Rudgers, and J.L. Bronstein. *In preparation*. Comparing variation in interaction outcome among competition, predation, and mutualism: a meta-analysis.

Chamberlain, S.A., et al. (many authors). *In preparation*. Community structure of salt marsh communities across three spatial and three organizational scales.

PUBLICATIONS (NON-REFEREED)

- Hubbell, J.G., **S. Chamberlain**, K. Cooper-Carter, S. Strachan & R. Holman. 2004. Restoration Plan for Riparian Restoration After Tamarix treatment at demonstration sites on Red Bank Creek in Tehama County, California. California State University, Chico Research Foundation. Unpublished report.
- River Partners. 2004. Survey of Planted Elderberry on Sacramento River National Wildlife Refuge Riparian Restoration Sites for Use by Valley Elderberry Longhorn Beetles. Tehama, Butte and Glenn County, California. Helen Swagerty &Scott Chamberlain. Chico, California.
- Hunt, J.W., **S. Chamberlain**& D.M. Wood. 2003. Comparison of surface-active beetle (Order: Coleoptera) assemblages in remnant and restored riparian forests of varying ages on the Middle Sacramento River, California. Report to The Nature Conservancy.
- **Chamberlain, S**. 2003. Feasibility study on the foraging ecology of passerines in riparian forest, with emphasis on the black-headed grosbeak (*Pheucticus melanocephalus*). NSF Research Experience for Undergraduates (REU) Project Report.

PRESENTATIONS (POSTERS AND ORAL)

- Chamberlain, S.A.Does phylogeny matter? Assessing the impact of phylogenetic information in ecological meta-analysis. Invited talk at the FAB* lab at Simon Fraser University.
- 2011 **Chamberlain, S.A.**, & K.D. Whitney. Comparison of plant mutualist and antagonist arthropod communities near crop and wild sunflowers. Oral presentation at the 96th Annual meeting of the Ecological Society of America.
- 2011 **Chamberlain, S.A.**How important is accounting for evolutionary history in ecological meta-analyses? Oral Presentation at the 3rd annual Rice University-University of Houston Joint Graduate Student Conference

2009	Chamberlain, S.A. , & J.A. Rudgers. Extrafloral-floral nectar trade-offs or synergies in cotton (<i>Gossypium</i>). Poster presentation at the 94 th annual meeting of the
2009	Ecological Society of America. Chamberlain, S.A. , & J.A. Rudgers. Comparing variation in interaction outcome among competition, predation, and mutualism: a meta-analysis. Oral presentation at
2009	the 6 th Annual Southeastern Ecol. and Evol. Conference at the University of Florida. Chamberlain, S.A. , & J.A. Rudgers. Comparing variation in interaction outcome among competition, predation, and mutualism: a meta-analysis. Oral presentation at the 10 th Annual Ecological Inegration Symposium at Texas A&M University.
2008	Chamberlain, S.A. , & J.N. Holland. Factors influencing extrafloral nectar mediated ant-plant interactions in the Sonoran Desert. Poster presentation at Entomological Society of America's 56 th Annual Meeting.
2008	Holland J.N., S.A. Chamberlain , & K.C. Horn.Costs of mutualism: Optimal defense theory predicts investment in extrafloral nectar resources in ant-plant interactions. Oral presentation at Ecological Society of America's 93 rd Annual Meeting.
2007	S.A. Chamberlain . Community context reveals alternative function of extrafloral nectar. Oral presentation-California Botanical Society 22 nd Graduate Student Meeting.
2007	Hunt, J.W., S.A. Chamberlain& D.M. Wood. Surface-active beetles as indicators of habitat change in riparian restoration along the Sacramento River, California, USA. Oral presentation at Ecological Society of America's 92 nd Annual Meeting.
2003	Hunt, J.W., S.A. Chamberlain & D.M. Wood. Comparison of surface-active beetle (Order: Coleoptera) assemblages in remnant and restored riparian forests of varying ages on the Middle Sacramento River, California. Poster presented at CALFED Bay-Delta Conference.
TEACHING	
2010	Fall, Teaching Assistant, Science Communication, Dr. Solomon, Rice University
2009	Spring, Teaching Assistant, <i>Insect Biology</i> (BIOS 326)), Dr. Rudgers, Rice University
2007	Fall, Teaching Assistant, <i>Ecology</i> (BIOS 325), Dr. Holland, Rice University
2007	Spring, Teaching Assistant, <i>Plant Diversity</i> (BIOS 336), Dr. Whitney, Rice University
AWARDS	
2011	Ecological Society of America Population Biology Section Travel Award to the 2011 ESA Conference (\$250)
2010-2011	Lodieska Stockbridge Vaughn Fellowship (\$16,250 towards stipend)
2010	Prairie Biotic Research, Inc. (\$896)
2009	Envision Grant, Leadership Rice, Rice University (\$1,618) – together with Rice undergraduates Samuel Jacobson and Myra Lara
2009	Best Thesis, Department of Ecology and Evolutionary Biology, Rice University
2006-2007	Wray-Todd Graduate Fellowship
2008	Best Graduate Student Paper, presented by Department of Ecology and Evolutionary Biology, Rice University (\$100)

2007-2008	Academic & Research Support Fund, Rice University, Induced antiherbivore
	defenses across multiple economically important plant species (\$500)
2007	National Science Foundation, Graduate Research Fellowship Program (GRFP),
	Complex mutualistic networks: from structure to dynamic stability (Honorable
	Mention)
2002	National Science Foundation REU (Research Experience for Undergraduates),
	California State University, Chico (\$3,000)

STUDENT MENTORING

Larry Liu (Summer 2008), Rameez Anwar (Fall 2008-Spring 2009), Yosuke Akiyama (Fall 2008-Spring 2009), Rohini Sigireddi(Summer 2009), Neha Deshpande(Summer 2009), Matt King (Spring 2010), Tianshi Ji (Fall 2010), Morgan Black (Fall 2010-present), Roy Wu (Fall 2010), Thanh Vu (Spring 2011-present), Charles Danan (Spring 2011-present)

WORKSHOPS ATTENDED

2011	A Brief Introduction to Bayesian and Hierarchical Bayesian Modeling in Ecology (1
	day workshop), 96 th annual meeting of the Ecological Society of America.
2009	An Introduction to Structural Equation Modeling (1 day workshop), 94 th annual
	meeting of the Ecological Society of America.
2009	An Introduction to Meta-analysis in Ecology and Evolutionary Biology, National
	Evolutionary Synthesis Center (NESCent), July 6-10, 2009
2008	Distributed Graduate Functional Ecology Seminar Capstone Meeting, National
	Center for Ecological Analysis and Synthesis (NCEAS), March 27-31, 2008
2007	Ant Course, Southwest Research Station (SWRS), Portal, AZ, August 2-12, 2007 –
	Identification, collection, curation, and ecology of North American ants

EXTRAMURAL SERVICE AND COMMUNITY OUTREACH

2011-pres	Working Group Member of the International Network of Next-Generation Ecologists
	(INNGE). Website: http://innge.net/
2010	Organized the Rice University-University of Houston Joint Graduate Student
	Conference
2008-pres	Board Member, Rice University Bicycle Safety Committee, Graduate Student
_	Representative to prepare a bicycle safety policy for Rice University
2007-2010	Treasurer/Secretary, Ecology & Evolutionary Biology Graduate Student Association,
	Rice University.
2004-2005	Board Member, Friends of Bidwell Park Board of Directors, Chico, California.
	Advocacy for sound environmental stewardship of parks.

PEER REVIEW ($N_{PAPERS} = 22$; $N_{JOURNALS} = 18$)

African Journal of Agricultural Research, Agricultural & Forest Entomology (2), The American Naturalist, Ecography, Ecological Complexity, Ecological Entomology, Ecology Letters, Environmental Management, Evolutionary Ecology, Florida Entomologist, Journal of Avian Biology, Methods in Ecology and Evolution, New Phytologist, Oecologia, Oikos (3), Plant Ecology, Population Ecology (2), The R Journal

COMPUTER PROGRAMMING

R: Statistics, graphics, numerical simulations. Used for ecological, evolutionary, and phylogenetic work.

rOpenSci: I started a code development project with three colleauges to make R (#rstats) packages to facilitate use of open source journals and data sets in all science disciplines. See our website for more information (http://ropensci.org/), and our code (https://github.com/ropensci).

PROFESSIONAL SOCIETY MEMBERSHIP

Botanical Society of America, Ecological Society of America, Society for the Study of Evolution

PROFESSIONAL REFERENCES

Dr. Jennifer Rudgers Ecology & Evolutionary Biology Dept. Rice University jrudgers@rice.edu 713-348-6276

Dr. KenWhitney Ecology & Evolutionary Biology Dept. Rice University kwhitney@rice.edu 713-348-3057 Dr. Tom Miller Ecology & Evolutionary Biology Dept. Rice University tom.miller@rice.edu 713-348-4218

Dr. Robert Schlising Professor Emeritus Biology Dept. California State University, Chico rschlising@csuchico.edu 530 343-3411