

NICHOLAS L. RASMUSSEN

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ACADEMIC APPOINTMENTS

- 2015-present **Postdoctoral Scholar.** Department of Entomology. University of California-Davis
Advisor: Louie H. Yang
- 2014 **Instructor of Record.** Rice University. Insect Biology Lecture

EDUCATION

- 2008-2014 **Ph.D.** Rice University. Ecology and Evolutionary Biology
Advisor: Volker H. W. Rudolf
- 2006-2008 **M.A.** University of Kansas. Museum Studies - Natural History track
- 2002-2006 **B.S.** Oklahoma State University. Zoology. *magna cum laude in cursu honorum*

FELLOWSHIPS AND GRANTS

- 2012, 2013 Centennial Grants, Rice University, Dept. of Ecology and Evolutionary Biology, **\$2,000.**
- 2012 Doctoral Dissertation Improvement Grant, National Science Foundation, **\$14,916.**
- 2009, 2011 Grants, East Texas Herpetological Society, **\$800.**
- 2008-2014 Wray Todd Graduate Fellowship, Rice University, Dept. of Ecology and Evolutionary Biology, **\$16,335 + tuition and fees each year.**
- 2006-2008 Melik Graduate Fellowship, University of Kansas, **\$10,000 + tuition and fees each year.**

AWARDS AND HONORS

- 2014 Best Student Publication, Rice University, Dept. of Ecology and Evolutionary Biology.
- 2013 1st Place Student Oral Presentation, Society for Freshwater Science Annual Meeting.
- 2013 1st Place Presentation, Rice University and University of Houston Joint Symposium.
- 2013 3rd Place Oral Presentation, Texas A&M University Ecological Integration Symposium.
- 2012 Honorable Mention, Student Research Award, American Society of Naturalists.
- 2010, 2013 Best Teaching Assistant, Rice University, Dept. of Ecology and Evolutionary Biology.

PUBLICATIONS

- 2016 **Rasmussen, N. L.,** and V. H. W. Rudolf. Individual and combined effects of two types of phenological shifts on predator-prey interactions. *Ecology* 97(12): 3414-3421.
- 2015 **Rasmussen, N. L.,** and V. H. W. Rudolf. Phenological synchronization drives demographic rates of populations. *Ecology* 96(7):1754-1760.

- 2014 **Rasmussen, N. L.**, B. G. Van Allen, and V. H. W. Rudolf. Linking phenological shifts to species interactions through size-mediated priority effects. *Journal of Animal Ecology* 83(5): 1206-1215.
- 2014 Rudolf, V. H. W., **N. L. Rasmussen**, C. J. Dibble, and B. G. Van Allen. Resolving the roles of body size and species identity in driving functional diversity. *Proceedings of the Royal Society B* 281: 20133203.
- 2013 Rudolf, V. H. W., and **N. L. Rasmussen**. Population structure determines functional differences among species and ecosystem processes. *Nature Communications* 4:2318.
- 2013 Rudolf, V. H. W., and **N. L. Rasmussen**. Ontogenetic functional diversity: Size-structure of a keystone predator drives functioning of a complex ecosystem. *Ecology* 94(5):1046-1056.
- 2012 Chamberlain, S. A., S. M. Hovick, C. J. Dibble, **N. L. Rasmussen**, B. G. Van Allen, B. S. Maitner, J. R. Ahern, L. P. Bell-Dereske, C. L. Roy, M. Meza-Lopez, J. Carrillo, E. Siemann, M. J. Lajeunesse, and K. D. Whitney. Does phylogeny matter? Assessing the impact of phylogenetic information in ecological meta-analysis. *Ecology Letters* 15(6):627-636.
- 2008 **Rasmussen, N. L.**, and R. W. Thorington, Jr. Morphological differentiation among three species of flying squirrels (genus *Hylopetes*) from Southeast Asia. *Journal of Mammalogy* 89(5):1296-1305.
- In review* B. G. Van Allen, **Rasmussen, N. L.**, C. J. Dibble, and V. H. W. Rudolf. Apex predators determine how biodiversity is partitioned across time and space.
- In prep* **Rasmussen, N. L.**, and V. H. W. Rudolf. Differential shifts in phenological timing and how the effects on species interactions scale up to alter demographic rates, community structure, and ecosystem processes.
- In prep* **Rasmussen, N. L.**, and L. H. Yang. Effects of phenological shifts by an herbivore on growth and reproduction of its host plant.

PRESENTATIONS

- 2016 **Rasmussen, N. L.**, and L. H. Yang. Determining the consequences of phenological shifts for plant-herbivore interactions: An experimental approach. Oral presentation. *Ecological Society of America Annual Meeting*. Fort Lauderdale, FL.
- 2016 **Rasmussen, N. L.**, and V. H. W. Rudolf. Consequences of shifts in the mean and variation in prey phenology for predator-prey interactions. Oral presentation. *American Society of Naturalists Annual Meeting*. Pacific Grove, CA.
- 2015 **Rasmussen, N. L.**, and V. H. W. Rudolf. Consequences of shifts in the mean and variation in prey phenology for predator-prey interactions. Oral presentation. *Ecological Society of America Annual Meeting*. Baltimore, MD.
- 2014 **Rasmussen, N. L.**, and V. H. W. Rudolf. Changes in phenological synchronization within populations alter demographic rates. Poster presentation. *Ecological Society of America Annual Meeting*. Sacramento, CA.

- 2013 **Rasmussen, N. L.**, B. G. Van Allen, and V. H. W. Rudolf. Consequences of phenological shifts for species interactions: Testing the importance of size-mediated priority effects. Oral presentation. *Ecological Society of America Annual Meeting*. Minneapolis, MN.
- 2013 **Rasmussen, N. L.**, B. G. Van Allen, and V. H. W. Rudolf. Consequences of phenological shifts for species interactions: Testing the importance of size-mediated priority effects using a dragonfly naiad system. Oral presentation. *Society for Freshwater Science Annual Meeting*. Jacksonville, FL.
- 2013 **Rasmussen, N. L.**, V. H. W. Rudolf, and B. G. Van Allen. Consequences of phenological shifts for species interactions: Testing the importance of size-mediated priority effects. Oral presentation. *Rice University and University of Houston Joint Symposium*. Houston, TX.
- 2013 **Rasmussen, N. L.**, V. H. W. Rudolf, and B. G. Van Allen. Consequences of phenological shifts for species interactions: Testing the importance of size-mediated priority effects. Oral presentation. *Texas A&M Ecological Integration Symposium*. College Station, TX.
- 2012 **Rasmussen, N. L.**, and V. H. W. Rudolf. The role of arrival phenology and size-mediated priority effects for species interactions in simple food webs. Oral presentation. *Ecological Society of America Annual Meeting*. Portland, OR.
- 2011 **Rasmussen, N. L.**, and V. H. W. Rudolf. Phenology of species interactions: Size-mediated priority effects and the dynamics of competition and predation in seasonal communities. Oral presentation. *Ecological Society of America Annual Meeting*. Austin, TX.
- 2011 Rudolf, V. H. W., and **N. L. Rasmussen**. From individuals to ecosystems: Consequences of ontogenetic niche shifts for community structure and ecosystem functioning. Oral presentation. *Ecological Society of America Annual Meeting*. Austin, TX.
- 2007 **Rasmussen, N. L.**, and R. W. Thorington, Jr. A study of three Southeast Asian flying squirrels of the genus *Hylopetes*. Poster presentation. *American Society of Mammalogists Meeting*. Albuquerque, NM.

TEACHING, OUTREACH, AND MENTORING

- 2015 **Guest Speaker.** Field Day at Hedgerow Farms. Presented my research on milkweed-monarch interactions to tour groups visiting this native plant farm.
- 2015 **Organizer.** Monitoring Milkweed-Monarch Interactions for Learning and Conservation. Helped develop this program which trains high school and undergraduate students to participate in a citizen science project to monitor milkweed and monarch phenologies.
- 2014 **Volunteer.** Young Owls Leadership Program. Led tours of Rice ecology research laboratories for low-income high school students preparing to apply to college.
- 2014 **Consultant/Actor.** STEMscopes - Texas. Helped develop content for an educational video about food webs targeting elementary school students. Also performed as the expert ecologist in the video.

- 2013-2014 **Project Supervisor.** Houston Arboretum Phenology Monitoring Project. Created and ran this citizen science project, the goal of which was to engage the public in science by collecting data for the National Phenology Network.
- 2013 **Instructor.** EEB Academy. Helped create and teach this two-week summer course, which introduces high school students to ecology, evolution, and academic research.
- 2012 **Instructor.** Graduate Student Professional Development. Helped lead group discussions and schedule guest lecturers for this course.
- 2012 **Teaching Assistant.** Tropical Ecology (Belize). Assisted with developing curriculum, presenting lectures, preparing and conducting laboratory and field exercises, and grading for this three-week study abroad course.
- 2010, 2012 **Instructor.** Freshman Research Seminar. Prepared lectures, arranged lab tours, and led research paper discussions for freshman undergraduates (three semesters).
- 2009 **Teaching Assistant.** General Ecology. Graded problem sets and exams, conducted review sessions, and presented two lectures.
- 2008 **Teaching Assistant.** Biology of Infectious Diseases. Assisted with writing exams, supervised several class projects, conducted review sessions, created and presented two lectures, and helped with grading.
- 2006-present **Mentor.** 28 undergraduate and 2 high school students (includes 18 STEM minorities). Provided research training, career advice, and/or letters of recommendation.

ACADEMIC SERVICE

Journal Reviewer: Ecological Entomology, Journal of Herpetology, Oecologia, Oikos, Ecological Monographs
Funding Agency Reviewer: National Science Foundation