

DEREK MARLEY JOHNSON

CURRICULUM VITAE

Contact Information

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Education

PhD	University of Miami	Biology	2003
MS	University of South Florida	Zoology	1994
BS	Florida State University	Biology	1991

Experience

2017-present	Associate professor, Department of Biology, Virginia Commonwealth University
2011-2017	Assistant professor, Department of Biology, Virginia Commonwealth University
2006-2011	Assistant professor, Department of Biology, University of Louisiana Lafayette
2005	Postdoctoral researcher, University of Wisconsin (advisor: Anthony R. Ives)
2003-2005	Postdoctoral researcher, Pennsylvania State University (advisors: Ottar N. Bjørnstad & Andrew M. Liebhold)
2000-2003	Co-coordinator, graduate-level field course “Tropical Biology: An Ecological Approach”. Organization for Tropical Studies

Scholarship**Publications**

Web of Science: 965 citations, H-index = 19

‡ Postdoctoral researcher

† Graduate researcher

†† Undergraduate researcher in Johnson lab

2017

- 41) Grayson KL & Johnson DM. 2017. Novel insights on population and range edge dynamics using an unparalleled spatiotemporal record of species invasion. **Journal of Animal Ecology** DOI: 10.1111/1365-2656.12755.

- 40) Chan DM, Kent CM & Johnson DM. 2017. Management of Invasive Allee Species. **Letters in Biomathematics** 4:167-186. <http://dx.doi.org/10.1080/23737867.2017.1331712>
- 39) Jones LR[†], Duke-Sylvester SM, Leberg PL & Johnson DM. *In Press*. Closing the gaps for animal seed dispersal: separating the effects of habitat loss on dispersal distances and seed aggregation. **Ecology & Evolution**.
- 38) Thompson LM[†], Faske TM, Banahene N, Grim D, Agosta SJ, Parry D, Tobin PC, Johnson DM & Grayson KL. 2017. Variation in growth and development responses to supraoptimal temperatures near latitudinal range limits of an expanding invasive species. **Physiological Entomology** 42: 181-190. DOI: 10.1111/phen.12190
- 37) Walter JA[‡], Grayson KL & Johnson DM. 2017. Variation in Allee effects: evidence, unknowns, and directions forward. **Population Ecology** 59:99-107. DOI 10.1007/s10144-017-0576-3
- 36) Sezen Z, Johnson DM & Shea K. 2017. Individually-mark mass-release resight study elucidates effects of patch characteristics and distance on host patch location by an insect herbivore. **Ecological Entomology** 42: 273-282. DOI: 10.1111/een.12383
- 35) Colteaux BC[†] & Johnson DM. 2017. Commercial snapping turtle harvest: export, trends, and an analysis of the efficacy of size limits at reducing harvest pressure. **Journal of Nature Conservation** 35: 13-19.
- 34) Walter JA[‡], Johnson DM & Haynes KJ. 2017. Spatial variation in Allee effects influences patterns of range expansion. **Ecography** 40: 179-188. DOI: 10.1111/ecog.01951.

2016

- 33) Walter JA[‡], Finch FT & Johnson DM. 2016. Reevaluating fall cankerworm management thresholds for urban and suburban forests. **Agricultural and Forest Entomology**. 18(2) 145-150. DOI: 10.1111/afe.12147.
- 32) Thompson LM[†], Grayson KL[‡] & Johnson DM. 2016. Forest edges enhance mate-finding in the invasive European gypsy moth, *Lymantria dispar*. **Entomologia Experimentalis et Applicata**. 158(3): 295-303. DOI: 10.1111/eea.12402.

2015

- 31) Walter JA[‡], Johnson DM, Tobin PC & Haynes KJ. 2015. Population cycles produce periodic range boundary pulses. **Ecography** 38: 1200-1211. DOI: 10.1111/ecog.01364.
- 30) Allstadt AJ[‡], Liebhold AM, Johnson DM, Davis RE & Haynes KJ. 2015. Temporal variation in the synchrony of weather and its consequences for spatiotemporal population dynamics. **Ecology** 96(11): 2935-2946.
- 29) Grayson KD[‡], Parry D, Faske T^{††}, Hamilton A^{††}, Tobin PC, Agosta S & Johnson DM. 2015. Performance of wild and laboratory-reared gypsy moth (*Lymantria dispar*) populations: A comparison between artificial diet and foliage. **Environmental Entomology** 44(3): 864-873. <http://dx.doi.org/10.1093/ee/nvv063>.

2013

- 28) Allstadt A[‡], Haynes KJ, Liebhold AM & Johnson DM. 2013. Long-term shifts in the cyclicity of outbreaks of a forest-defoliating insect. **Oecologia** 172: 141-151.

2012

- 27) Haynes KJ, Liebhold AM & Johnson DM. 2012. Elevational gradient in the cyclicity of a forest-defoliating insect. **Population Ecology** 54(2): 239-250.
- 26) Albert JS & Johnson DM. 2012. Diversity and evolution of body size in fishes. **Evolutionary Biology** 39(3): 324-340.

2010

- 25) Johnson DM, Büntgen U, Frank DC, Kausrud K[†], Haynes KJ[‡], Liebhold AM, Esper J & Stenseth NC. 2010. Climate warming disrupts recurrent Alpine insect outbreaks. **Proceedings of the National Academy of Sciences** 107: 20576-20581.

2009

- 24) Haynes KJ[‡], Liebhold AM, Fearer TM, Wang G, Norman GW & Johnson DM. 2009. Spatial synchrony propagates through a forest food web via consumer-resource interactions. **Ecology** 90:11 2974-2983.
- Faculty of 1000 – Article Recommendation by Frédéric Guichard.
- 23) Tobin PC, Robinet C, Johnson DM, Whitmire SL, Bjørnstad ON & Liebhold AM. 2009. The role of Allee effects in gypsy moth, *Lymantria dispar* (L.), invasions. **Population Ecology** 51(Sp. Iss.): 373-384.
- 22) Büntgen U, Frank D, Liebhold A, Johnson D, Carrer M, Urbinati C, Grabner M, Nicolussi K, Levanić T & Esper J. 2009. Three centuries of insect outbreaks across the European Alps. **New Phytologist** 182: 929-941.
- 21) Haynes KJ[‡], Liebhold AM & Johnson DM. 2009. Spatial analysis of harmonic oscillation in intensity of gypsy moth outbreaks. **Oecologia** 159:249-256.
- 20) Albert JS, Knouft KH & Johnson DM. 2009. Fossils provide better evidence of ancestral body size than do extant taxa in fishes. **Acta Zoologica** 90: 357-384.
- 19) Jang SR-J & Johnson DM. 2009. Dynamics of discrete-time larch budmoth population models. **Journal of Biological Dynamics** 3(2-3): 209-223.

2008

- 18) Bjørnstad ON, Liebhold AM & Johnson DM. 2008. Transient synchronization following invasion: revisiting Moran's model and a case study. **Population Ecology** 50: 379-389.

2007

- 17) Tobin PC, Whitmore SL & Johnson DM, Bjørnstad ON & Liebhold AM. 2007. Invasion speed is affected by geographic variation in Allee effects. **Ecology Letters** 10: 36-43.
- Faculty of 1000 – Article Recommendation by Mark Lonsdale.

2006

- 16) Johnson DM, Liebhold AM & Bjørnstad ON. 2006. Geographical variation in the periodicity of gypsy moth outbreaks. **Ecography** 29: 367-374.
- 15) Johnson DM, Bjørnstad ON & Liebhold AM. 2006. Landscape mosaic induces traveling waves of insect outbreaks. **Oecologia** 148(1): 51-60.
- 14) Johnson DM, Tobin PC, Liebhold AM & Bjørnstad ON. 2006. Allee effects and pulsed invasions by the gypsy moth. **Nature** 444: 361-363.
- Faculty of 1000 – 2 Article Recommendations by Jordi Bascompte and James Cronin
 - Featured in Science Daily, <http://www.sciencedaily.com/releases/2006/11/061116084149.htm>
 - Featured in article in New Scientist magazine, <http://www.newscientist.com/article/mg19225780.148-gypsy-moths-invasion-strategy-could-be-its-downfall.html>
 - Featured in article in National Geographic Online.
 - Featured in Associated Press release.
- 13) Liebhold AM, Johnson DM & Bjørnstad ON. 2006. Geographic variation in density dependent dynamics impacts the synchronizing effect of dispersal and regional stochasticity. **Population Ecology** 48: 131-138.

2005

- 12) Johnson DM 2005. Metapopulation models: an empirical test of model assumptions and evaluation methods. **Ecology** 86(11): 3088-3098.
- 11) Inouye BD & Johnson DM. 2005. Larval aggregation affects feeding rate in *Chlosyne poecile* (Lepidoptera: Nymphalidae). **Florida Entomologist** 88(3): 247-252.
- 10) Johnson DM, Liebhold AM, Bjørnstad ON & McManus ML. 2005. Circumpolar variation in periodicity and synchrony among gypsy moth populations. **Journal of Animal Ecology** 74: 882-892.
- 9) Johnson DM & Horvitz CC. 2005. Estimating postnatal dispersal: tracking the unseen dispersers. **Ecology** 86(5):1185-1190.

2004

- 8) Johnson DM, Bjørnstad ON & Liebhold AM. 2004. Landscape geometry and traveling waves in the larch budmoth. **Ecology Letters** 7: 967-974.
 - Faculty of 1000 – Article Recommendation by Jens Roland.
- 7) Johnson DM 2004. Source-sink dynamics in a temporally heterogeneous environment. **Ecology** 85(7): 2037-2045.
- 6) Johnson DM 2004. Life history and demography of *Cephaloleia fenestrata* (Hispaniae: Chrysomelidae). **Biotropica** 36(3):352-361.

Prior to 2000

- 5) Johnson DM & Stiling PD. 1998. Distribution and dispersal of *Cactoblastis cactorum* (Lepidoptera: Pyralidae), an exotic *Opuntia*-feeding moth, in Florida. **Florida Entomologist** 81(1): 12-22.
- 4) Johnson DM & Stiling PD. 1996. Host specificity of *Cactoblastis cactorum* (Lepidoptera: Pyralidae), an exotic *Opuntia*-feeding moth, in Florida. **Environmental Entomology** 25(4): 743-748.
- 3) McCoy ED, Mushinsky HR, Johnson D & Meshaka WE. 1996. Mangrove damage caused by Hurricane Andrew on the southwestern coast of Florida. **Bulletin of Marine Science** 59(1): 1-8.
- 2) Rossi AM, Stiling PD, Strong DR & Johnson DM. 1992. Does gall diameter affect the parasitism rate of *Asphondylia borrichiae* (Diptera: Cecidomyiidae)? **Ecological Entomology** 17(2): 149-154.
- 1) Stiling PD, Rossi AM, Strong DR & Johnson DM. 1992. Life history and parasites of *Asphondylia borrichiae*, a gall maker on *Borrchia frutescens*. **Florida Entomologist** 75(1): 130-137.

Grants and Fellowships**Awarded**

- 2018-2019 Virginia Department of Game and Inland Fish – Habitat use by the spotted turtle (*Clemmys glutata*) for active, hibernation, and estivation seasons. **Award: approximately \$17,000 (Sub-contractor – pending, thus has not yet entered processing at VCU sponsored programs).**
- 2016-2019 National Science Foundation – Collaborative research: A landscape resistance mapping approach to understanding species invasion patterns. **Award: \$792,577 (\$464,914 to VCU). (Lead Principal Investigator among 4 investigators from 3 universities).**

- 2012-2016 Virginia Department of Game & Inland Fisheries – Population viability of common snapping turtles in Virginia Waterways (Renewal). **Award: \$90,720. (Principal Investigator).**
- 2013-2016 USDA Northeastern Region – Factors leading to gypsy moth stasis and retraction in Virginia. **Award: \$20,000. (Principal Investigator)**
- 2012-2013 USDA Northeastern Region – Climate Controlled Reproductive Asynchrony in Gypsy Moth Populations. **Award: \$6,371. (Principal Investigator)**
- 2010-2011 University of Louisiana at Lafayette – Fellow of Computational and Visualization Enterprise (CAVE). **Award: \$2,000. (Fellow)**
- 2009-2012 USDA Southern Region – Spatial analysis of drought effects on southern pine beetle outbreaks. **Award: \$70,000. (Principal Investigator)**
- 2006-2010 USDA NRI Grant – Effects of Habitat Heterogeneity on Forest Insect Spatial Dynamics. **Award: \$241,000. (Principal Investigator)**
- 2005 USDA NRI – Effects of Habitat Heterogeneity on Forest Insect Spatial Dynamics. (Funding offered – I declined in lieu of faculty position). **Award: \$125,000. (Postdoctoral Principal Investigator)**
- 2000 Sigma Xi – Testing the Steady State Assumption of the Incidence Function Metapopulation Model. **Award: \$800. (Graduate Student Grantee)**
- 1999-2001 National Science Foundation – Dissertation Research: A Test of Metapopulation Incidence Function Parameters: Comparison of Predictions from Census Data and from Experimental Data. **Award: \$9,832. (Graduate Student Grantee)**
- 1999-2000 Organization for Tropical Studies Research Grant – A Test of Metapopulation Incidence Function Parameters: A Comparison of Predictions from Census Data and from Experimental Data. **Award: \$3,000. (Graduate Student Grantee).**
- 1996-1999 Maytag Fellowship – University of Miami. **Award: \$36,000. (Fellow)**
- 1993 United States Fish & Wildlife Service – The spread of *Cactoblastis cactorum* in Florida. **Award: \$5,000. (Graduate Student Grantee)**
- 1991-1992 The Garden Club of America – Catherine H. Beattie Fellowship. **Award: \$10,000.**

Mentee Support

- 2017 NSF REU Supplement - Examining cryptic components of boundary-limiting Allee effects: how topography may foster mate-finding failure in an invasive species. Awarded to Hannah Byrne. **Award: \$7,253.**
- 2017 VCU Undergraduate Research Opportunity - Comparing two methods of quantifying an invasion-restricting component Allee effect in the defoliating pest *Lymantria dispar*. Awarded to Alexandra Barry. **Award: \$2,000.**
- 2017 VCU Rice Rivers Center for Environmental Sciences Research Grant – Awarded to Alexandra Barry. **Award: \$500.**
- 2015-2017 USDA AFRI Postdoctoral Fellowship – Outbreaks of insect pests: Climate drivers and impacts of climate change. Awarded to Jonathan Walter. **Award: \$138,000.**

- 2015-2016 The Rice Rivers Center for Environmental Sciences Research Grant – Awarded to Abigail Nelson. **Award: \$1,000.**
- 2015-2016 The Rice Rivers Center for Environmental Sciences Research Grant – Awarded to Kennesha Myrick. **Award: \$719.**
- 2013-2015 USDA AFRI Postdoctoral Fellowship – Population Persistence at an Invasion Front: Climatic Limitations on the Spread of the Gypsy Moth. Awarded to Kristine Grayson Dattelbaum. **Award: \$130,553.**
- 2013 Blandy Graduate Research Fellowship – Small mammal predation on the gypsy moth across a fragmented landscape. Awarded to John Wojcikiewicz. **Award: \$6,750.**
- 2013 Blandy Graduate Research Fellowship – Male Movement and mate-finding of a non-native forest defoliator in fragmented habitats. Awarded to Lily Thompson. **Award: \$6,750.**
- 2013-2014 The Rice Center for Environmental Sciences Research Grant – Awarded to Benjamin Colteaux to study mercury bio-accumulation levels in snapping turtle. **Award: \$2,500.**
- 2013-2014 Sigma Xi – Mercury Bio-Accumulation Levels in Various Size Classes of the Common Snapping Turtle, *Chelydra serpentina*. Awarded to Benjamin Colteaux. **Award: \$500.**
- 2012-2013 The Rice Center for Environmental Sciences Research Grant – Awarded to Benjamin Colteaux to study demography of snapping turtle in riverine systems. **Award: \$2,500.**
- 2012-13 UROP Fellowship – Awarded to Stephanie Roddy to research geographic variation in predation on gypsy moth larvae. **Award: \$2,000.**
- 2011-2012 Fulbright Graduate Fellowship – Quantification of Seed Dispersal by Toucans in Tropical Forest and Sustainable Coffee Habitat. Awarded to Landon Jones (University of Louisiana at Lafayette). **Award: \$21,000.**

Invited Speaker

* Presenter, † Postdoctoral Researcher in Johnson lab, ‡ Graduate researcher in Johnson lab, †† Undergraduate researcher in Johnson lab

- 2017 Johnson DM*. An improved method for estimating Allee effects along the gypsy moth invasion front. Annual Gypsy Moth Review, Savannah, GA, November 6-9
- 2017 Grayson KL*, Tobin PC, Walter JA, Blackburn LM & Johnson DM. Synthesizing two decades of research on range edge dynamics using an unparalleled record of species invasion from Slow the Spread data. Annual Gypsy Moth Review, Savannah, GA, November 6-9
- 2017 Faske TM**, Thompson LM, Banahene N, Levorse A, Quiroga-Herrera M, Sherman K, Timko SE, Yang B, Parry D, Tobin PC, Gray DR, Eckert AJ, Johnson DM & Grayson KL. Can gypsy moth stand the heat? A reciprocal transplant of an invasive forest pest across its southern range margin. Annual Gypsy Moth Review, Savannah, GA, November 6-9
- 2016 Johnson DM*, Tobin PC, Dyer RJ & Holland JD. Geographic variation in low-density gypsy moth population dynamics. Annual Gypsy Moth Review, Columbus, OH, October 25-27.
- 2016 Johnson DM*. A Bayesian approach to quantifying spatial variation in Allee effects. 32nd Annual Meeting of the Society for Population Ecology, Sapporo, Japan, November 3-5. **(International)**

- 2016 Johnson DM* & Grayson KL‡. Patterns and underlying theory of gypsy moth invasion in North America: Past insights and future direction. Tsukuba University, Japan, November 2. **(International)**
- 2016 Johnson DM*. Geographic variation in low-density gypsy moth populations (and why we should care). Department of Entomology, Purdue University, November 17.
- 2016 Johnson DM*. Geographic variation in low-density gypsy moth populations (and why we should care). Department of Entomology, North Carolina State University, February 15 (Cancelled due to inclement weather. To be rescheduled for 2016-17 academic year).
- 2015 Thompson LM+*, Grayson KL‡ & Johnson DM. Gypsy moth mating success and forest edges. The Annual Review of the National Gypsy Moth Management Board. Virginia Beach, VA, October 26-29.
- 2014 Grayson K+*, Parry D, Tobin P, Agosta S & Johnson D. Critical thermal limits for the southern spread of the gypsy moth. Invited Oral Presentation. The Annual Review of the National Gypsy Moth Management Board. Louisville, KY.
- 2014 Johnson DM* & Grayson KL‡. Symposium Presentation. Low density population dynamics of outbreaking forest insects: why are they important? Eastern Branch of the Entomological Society of America, Williamsburg, VA Symposium
- 2012 Johnson DM*. Alpine insect outbreaks: Landscape patterns and effects of climate change. University of Virginia, Blandy Experimental Farm, Boyce, VA.
- 2012 Johnson DM*. Alpine insect outbreaks: Landscape patterns and effects of climate change. Swiss Federal Institute of Forest, Snow & Landscape (WSL), Birmensdorf, Switzerland. **(International)**
- 2012 Johnson DM*. Alpine insect outbreaks: Landscape patterns and effects of climate change. Department of Ecology, University of Turku, Turku Finland. **(International)**
- 2009 Johnson DM*. Seeing the forest for the trees: Inferring processes from large scale patterns of insect defoliation. University of South Florida, Department of Biology, Tampa, Florida.
- 2009 Haynes KJ‡, Liebhold AM & Johnson DM*. Propagation of synchrony through trophic interactions in the gypsy moth. 52nd Annual Southern Forest Insect Work Conference, Gulfport, Mississippi.
- 2008 Haynes KJ+*, Liebhold AM & Johnson DM. Elevational gradient in the cyclicity of gypsy moth populations. National Research Initiative (NRI) Arthropods & Nematodes Biology & Management Programs Awardee Workshop, Reno, Nevada.
- 2008 Johnson DM*, Liebhold AM, Tobin PC & Bjørnstad ON. Allee effects and invasion pulses in the gypsy moth. Chinese Academy of Forestry, Beijing, China. **(International)**
- 2008 Johnson DM*, Büntgen U, Kausrud K, Frank DC, Haynes KJ‡, Liebhold AM, Esper J & Stenseth NC. Climate change and shifts in elevational epicenter of larch budmoth outbreaks. Department of Biological Sciences, Florida State University, Tallahassee, FL.
- 2008 Johnson DM*, Liebhold AM, Tobin PC & Bjørnstad ON. Allee effects and invasion pulses in the gypsy moth. Université Libre de Bruxelles, Lutte Biologique et Ecologie Spatiale, Brussels, Belgium. **(International)**
- 2008 Johnson DM*, Büntgen U, Kausrud K, Frank DC, Haynes KJ‡, Liebhold AM, Esper J & Stenseth NC. Climate change and shifts in elevational epicenter of larch budmoth outbreaks.

Université Libre de Bruxelles, Lutte Biologique et Ecologie Spatiale, Brussels, Belgium.
(International)

- 2008 Johnson DM*. Seeing the forest for the trees: Large scale patterns and processes in insect outbreaks. Department of Biology, University of Louisiana at Monroe, Monroe, LA.
- 2008 Johnson DM* & Keitt TH. Temporal heterogeneity in source-sink dynamics: intrinsic and extrinsic effects. International Association of Landscape Ecology Annual Conference, Madison, WI.
- 2008 Johnson DM*. Using models to infer process from pattern in the gypsy moth invasion. Department of Biological Sciences, Louisiana State University, Baton Rouge, LA.
- 2008 Johnson DM*. Seeing the forest for the trees: Inferring processes from large-scale patterns of insect defoliation. Department of Biology, University of North Carolina, Chapel Hill, NC
- 2007 Johnson DM, Liebhold AM, Tobin PC & Bjørnstad ON. Pulsed invasion of the gypsy moth in the United States. USDA NRI Annual Grantee Meeting, San Diego, California.
- 2007 Johnson DM*. Using models to infer process from pattern in spatial outbreak dynamics of forest insects. University of Missouri, Division of Plant Sciences, Columbia, MO.
- 2006 Johnson DM*, Tobin PA, Liebhold AM & Bjørnstad ON. Landscape geometry and traveling waves in the larch budmoth. Centre for Ecological and Evolutionary Synthesis, Department of Biology, University of Oslo, Oslo, Norway. **(International)**
- 2005 Johnson DM*. A gravity model of metapopulation dynamics: implications for conservation of communities. Organized Oral. Ecological Society of America. Annual Meeting August 7-12, Montreal, Canada.
- 2005 Johnson DM*. Spatiotemporal patterns in insect population dynamics. Department of Biology, University of Louisiana at Lafayette.
- 2005 Johnson DM*, O.N. Bjørnstad & A.M. Liebhold. Oral Presentation. Landscape geometry and traveling waves in the larch budmoth. Meeting on the Larch Budmoth, Zurich, Switzerland. **(International)**
- 2005 Johnson DM*. Spatiotemporal patterns in insect population dynamics. Department of Biology, New Mexico State University.
- 2005 Johnson DM*. Geographic variation in the synchrony and periodicity of gypsy moth outbreaks. USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species, Annapolis, Maryland.
- 2004 Johnson DM*, Bjørnstad ON & Liebhold AM. Spatiotemporal patterns in forest insect outbreaks. Department of Entomology, Pennsylvania State University.
- 2003 Johnson DM*. Metapopulation dynamics of a Neotropical beetle: *Cephaloleia fenestrata*. Interdepartmental Program in Ecology, Pennsylvania State University.
- 2001 Johnson DM*. Modeling herbivore dynamics on a Marantaceae: An empirical test of a metapopulation approach. Association for Tropical Biology, Annual Meeting, July, Bangalore, India. **(International)**
- 1992 Johnson DM*. The exotic cactus eating moth *Cactoblastis cactorum* in Florida. The Garden Club of America, Jupiter, FL.

Other Presentations

- 2017 Johnson DM. Oral Presentation. A Bayesian approach to quantifying Allee effects. Ecological Society of America Annual Conference, Portland OR, August 6-11, 2017.
- 2017 Grayson KL, Tobin PC, Walter JA, Blackburn LM & Johnson DM. Oral Presentation. Quantifying spatiotemporal variation in Allee effects using an unparalleled spatiotemporal record of species invasion. Ecological Society of America Annual Conference, Portland OR, August 6-11, 2017.
- 2017 Jones LR[†], Duke-Sylvester SM, DeClerck F, Leberg PL & Johnson DM. Oral Presentation. Modeling the effects of sociality on spatial patterns of seed dispersal for two sympatric toucan species. Ecological Society of America Annual Conference, Portland OR, August 6-11, 2017.
- 2017 Colteaux BC⁺ & Johnson DM. Poster Presentation. The status of snapping turtles (*Chelydra serpentina*) in Virginia: commercial harvest, conservation, and demography. Ecological Society of America Annual Conference, Portland OR, August 6-11, 2017.
- 2016 Jones LR[†], Duke-Sylvester S, Leberg PL & Johnson DM. Oral Presentation. Spatial patterns of seed dispersal by two toucan species in a fragmented tropical forest landscape. North American Ornithological Conference. Washington DC, August 16-20.
- 2016 Johnson DM, Roddy S & Grayson KL. Poster Presentation. Geographic variation in pupal mortality factors of gypsy moth and potential implications for spread patterns across Virginia. Ecological Society of America Annual Conference, Fort Lauderdale FL, August 7-12.
- 2016 Friedline C, Eckert A, Fiske T[†], Grayson K[‡], Johnson D & Parry D. Poster Presentation. The ecological genomics of gypsy moth invasion along a latitudinal gradient. Evolution 2016, Austin TX, June 17-21.
- 2016 Tobin P, Metz R, Walter J[‡], Grayson K[‡], Johnson D & Haynes K. Variation in the speed of invasion: roles of weather, resource availability, and landscape attributes on gypsy moth invasion dynamics. North American Forest Insect Work Conference, Washington DC, May 31-June 3, 2016.
- 2016 Nelson AJ^{+*} & Johnson DM. Oral Presentation. The effect of urbanization on a forest defoliator. VCU Rice Center Research Symposium, May 13.
- 2016 Myrick K^{+*}, Kester K & Johnson DM. Poster Presentation. Effects of olfactory cues on the foraging behavior of a carabid beetle, *Calosoma wilcoxi*, a predator of a forest defoliator. VCU Rice Center Research Symposium, May 13.
- 2015 Johnson DM, Walter JA[‡] & Tobin PC. Poster Presentation. The role of Allee effects in rapid synchronization of the gypsy moth. Ecological Society of America Annual Conference, Baltimore MD, August 9-14.
- 2015 Colteaux BC^{+*} & Johnson DM. Poster Presentation. Snapping turtle (*Chelydra serpentina*) home range analysis in an open river system: Implications for conservation and harvest regulations. International Congress for Conservation Biology, Montpellier, France, August 2-6. **(International)**
- 2015 Colteaux BC^{+*} & Johnson DM. Poster Presentation. The Wildlife Society 22nd Annual Conference, Winnipeg, Manitoba, Canada, October 17-21. **(International)**

- 2015 Jones LR^{†*}, Johnson DM, Duke-Sylvester SM & Leberg. Oral Presentation. Animal traits mitigating the negative consequences of fragmentation on spatial patterns of long-distance and contagious seed dispersal. Frugivores and Seed Dispersal Symposium, June 21-26. Drakensberg, South Africa. **(International)**
- 2015 Nelson AJ^{†*} & Johnson DM. Poster Presentation. The effect of urbanization on host-parasitoid interactions of a forest defoliator. Ecological Society of America Annual Conference, Baltimore MD, August 9-14.
- 2015 Myrick K^{†*}, Kester K & Johnson DM. Poster Presentation. Effects of olfactory cues on the foraging behavior of a carabid beetle, *Calosoma wilcoxi*, a predator of a forest defoliator. Ecological Society of America Annual Conference, Baltimore MD, August 9-14.
- 2015 Grayson KL^{‡*}, Thompson LM[†], Faske T[†], Konadu Banahene N, Levorse A, Quiroga-Herrera M, Yang A, Parry D, Tobin PC, Gray DR & Johnson DM. Poster Presentation. Performance of gypsy moth at supraoptimal temperatures at the southern invasion front. Ecological Society of America Annual Conference, Baltimore MD, August 9-14.
- 2015 Parry D, Grayson K[‡], Streifel M, Aukema B, Tobin P & Johnson D. Poster Adaptation and evolutionary stasis across the North American range of gypsy moth (*Lymantria dispar*). Entomological Society of America Annual Conference, Minneapolis, MN, November 15-18.
- 2015 Chan DM^{*} & Johnson DM. Oral Presentation. Management of invasive Allee species. American Mathematical Society Sectional Meeting, Washington DC, March.
- 2014 Colteaux BC^{†*} & Johnson DM. Poster Presentation. Commercial harvest pressure and regulation strategies to manage snapping turtles (*Chelydra serpentina*) among US states. Natural Areas Association Annual Conference, Dayton, OH, October 11-14.
- 2014 Johnson DM^{*}, Grayson KL[‡] & Tobin PC. Oral Presentation. Mechanisms of rapid synchronization in gypsy moth populations. International Union of Forest Research Organizations World Congress. Salt Lake City, UT, October 6-11.
- 2014 Grayson KL[‡], Parry D & Johnson DM. Poster Presentation. Critical Thermal Limits for the Southern Spread of the Gypsy Moth. International Union of Forest Research Organizations World Congress. Salt Lake City, UT, October 6-11.
- 2014 Parry D^{*}, Grayson KL[‡] & Johnson DM. Oral Presentation. Climate, Adaptation, and the Northward Range Expansion of Gypsy Moth. International Union of Forest Research Organizations World Congress. Salt Lake City, Utah, October 6-11.
- 2014 Johnson DM^{*} & Chan DM. Oral Presentation. Allee effects change how other population parameters affect rates of spread in expanding populations. Ecological Society of America Annual Meeting, Sacramento, CA, August 11-15.
- 2014 Jones, L^{†*} & Johnson DM. Poster Presentation. How does fragmentation affect spatial patterns of animal-mediated seed dispersal? Ecological Society of America Annual Meeting, Sacramento, CA, August 11-15.
- 2014 Colteaux BC^{†*} & Johnson DM. Poster Presentation. Globalization and the commercial harvest of snapping turtles in the Mid-Atlantic: International export, harvest pressure, and regulatory strategies. Ecological Society of America Annual Meeting, Sacramento, CA, August 11-15.
- 2014 Thompson LM^{†*} & Johnson DM. Poster Presentation. Forest edges enhance mate-finding in the European gypsy moth (*Lymantria dispar*). Ecological Society of America Annual Meeting, Sacramento, CA, August 11-15.

- 2014 Friedline C*, Grayson K‡, Hobson E, Lind B, Dyer R, Parry D, Johnson D & Eckert A. Oral Presentation. Genetic architecture of developmental traits in populations of male gypsy moths. Evolution Conference, Raleigh, NC, June 20-24.
- 2014 Wojcikiewicz J†* & Johnson D. Poster Presentation. Do white-tailed deer indirectly affect pupal mortality of the gypsy moth by altering predator habitat? Eastern Branch of the Entomological Society of America, Williamsburg, VA, March 15-18.
- 2014 Thompson L†* & D. Johnson D. Poster Presentation. Forest edges enhance mate-finding in the European gypsy moth, *Lymantria dispar*. Eastern Branch of the Entomological Society of America, Williamsburg, VA, March 15-18.
- 2014 Grayson K†*, Tobin P, Haynes K & Johnson D 2014. Poster Presentation. Temporal Variation in Allee Effects at an Invasion Front. Eastern Branch of the Entomological Society of America, Williamsburg, VA, March 15-18.
- 2014 Colteaux BC†* & Johnson DM. Oral Presentation. Commercial harvest of snapping turtles (*Chelydra serpentina*) in the Mid-Atlantic: International export, harvest pressure, and regulatory strategies. The Virginia Water Conference, March 9-11.
- 2014 Grayson K†*, Parry D, Johnson D, Krajah N†† & Grim D††. Poster Presentation. Local adaptation in larval performance across the latitudinal range of the gypsy moth, *Lymantria dispar*, in North America. 25th Interagency Research Forum on Invasive Species. Annapolis, MD.
- 2014 Parry D*, Grayson K‡ & Johnson D. Poster Presentation. Adaptive shifts in the phenology of egg hatch across the latitudinal range of gypsy moth, *Lymantria dispar*, in North America. 25th Interagency Research Forum on Invasive Species. Annapolis, MD, January 7-10.
- 2013 Johnson DM*, Roddy SE††, Butler B†† & Grayson KL‡. Poster Presentation. Multi-scale patterns of predation on *Lymantria dispar* pupae. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Grayson K†*, Parry D, Johnson D, Krajah N†† & Grim D††. Poster Presentation. Local adaptation in larval performance across the latitudinal range of the gypsy moth, *Lymantria dispar*, in North America. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Parry D*, Grayson K‡ & Johnson D. Poster Presentation. Adaptive shifts in the phenology of egg hatch across the latitudinal range of gypsy moth, *Lymantria dispar*, in North America. Entomological Society of America Annual Meeting, Austin, TX.
- 2013 Johnson DM*, Pante E† & Haynes KJ. Poster Presentation. Drought has density-dependent effects on *Dendroctonus frontalis* outbreak intensity. 24th Interagency Research Forum on Invasive Species. Annapolis, MD.
- 2013 Roddy SE††*, Grayson KL‡ & Johnson DM. Poster Presentation. Geographic variation in *Lymantria dispar* pupal mortality across Virginia. 24th Interagency Research Forum on Invasive Species. Annapolis, MD.
- 2012 Pante E.†, Johnson DM* & Haynes KJ. Poster Presentation. Geographic analysis of drought effects on southern pine beetle outbreaks. Ecological Society of America Annual Meeting, Portland, OR.
- 2012 Allstadt AJ, Haynes KJ, Liebhold AM & Johnson DM. Oral Presentation. Use of temporal variation in population and climatic synchrony to identify causal mechanisms. Ecological Society of America, Portland, OR.

- 2011 Jones L^{†*} & Johnson DM. Oral Presentation. Avian Seed Dispersal in Degraded Landscapes: How Can Fragmentation be Beneficial? American Ornithologist's Meeting in Jacksonville, FL.
- 2010 Haynes KJ^{†*}, Liebhold AM & Johnson DM. Evidence of shifts in the periodicity of gypsy moth populations during the twentieth century. Ecological Society of America, Pittsburgh, PA.
- 2010 Haynes KJ^{†*}, Liebhold AM & Johnson DM. Evidence of shifts in the periodicity of gypsy moth populations during the twentieth century. USDA Forest Service Interagency Research Forum on Invasive Species, Annapolis, MD.
- 2010 Haynes KJ^{†*}, Liebhold AM & Johnson DM. Long-term shifts in the periodicity of gypsy moth outbreaks. Annual Gypsy Moth Review, Durham, NC.
- 2009 Johnson DM^{*} & Haynes KJ[†]. Poster Presentation. Allee effects cause source-sink dynamics between homogeneous habitat patches. Ecological Society of America Annual Meeting, Albuquerque, NM.
- 2009 Haynes KJ^{†*}, Liebhold AM & Johnson DM. Oral Presentation. Elevational gradient in the cyclicity of a forest-defoliating insect. Ecological Society of America, Albuquerque, NM.
- 2008 Haynes KJ^{†*}, Liebhold AM, & Johnson DM. Spatial analysis of harmonic oscillation in the intensity of gypsy moth outbreaks. Ecological Society of America, Milwaukee, WI.
- 2008 Johnson DM^{*}, Büntgen U, Kausrud KL, Frank DC, Vik JO, Rouyer T, Haynes KJ[†], Liebhold AM, Stenseth NC & Esper J. Oral Presentation. Climate change and elevational shifts in the spatial pattern of larch budmoth outbreak: Evidence from 300 years of tree ring data. Ecological Society of America Annual Meeting, Milwaukee, WI.
- 2008 Liebhold AM^{*}, Bjørnstad ON, Johnson DM, Haynes KJ[†] & Robinet C. Oral Presentation. Spatial synchrony in forest insect outbreaks: Why is it so ubiquitous? The International Congress of Entomology, Durban, South Africa. **(International)**
- 2007 Johnson DM^{*}, Liebhold AM, Kausrud KL & Økland B. Oral Presentation. The dispersal paradox: Are good dispersers poor invaders? Ecological Society of America Annual Meeting, San Jose, CA.
- 2007 Johnson DM^{*}, Liebhold AM, Tobin PC & Bjørnstad ON. Poster Presentation. Pulsed invasion of the gypsy moth in the United States. USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species, Annapolis, MD. January 9-12.
- 2007 Bjørnstad ON^{*}, Liebhold AM, Tobin PC, Robinet C & Johnson DM. Oral Presentation. Synchronization of gypsy moth outbreaks along an invasion front. Ecological Society of America Annual Meeting, San Jose, CA.
- 2007 Albert JS^{*} & Johnson DM. Oral Presentation. Asymmetrical size-scaling contributes to the perception of Cope's rule: Evidence from fossil fishes and simulation studies. 11th International Symposium on Early Vertebrates, Uppsala, Sweden, August. **(International)**
- 2007 Tobin PC^{*}, Whitmore SL, Johnson DM, Bjørnstad ON & Liebhold AM. Oral Presentation. Allee effects and gypsy moth invasions. USDA Interagency Research Forum on Gypsy Moth and Other Invasive Species, Annapolis, MD. January 9-12.
- 2007 Tobin PC^{*}, Whitmore SL, Johnson DM, Bjørnstad ON & Liebhold AM. Oral Presentation. Allee dynamics and biological invasions in forest ecosystems. 2007 Southern Forest Insect Work Conference, Jekyll Island, GA July 23-26.

- 2006 Johnson DM*, Tobin PC, Liebhold AM & Bjørnstad ON. Poster Presentation. Pulsed invasion of the gypsy moth in the United States. Ecological Society of America Annual Meeting, Memphis, TN.
- 2006 Liebhold AM*, Bjørnstad ON & Johnson DM. Oral Presentation. Spatial Dynamics of Forest Insect Outbreaks: The Role of Movement, Stochasticity and Habitat Heterogeneity. Workshop on Spatial Dynamics at the Mathematical Biosciences Institute, Columbus, OH.
- 2004 Johnson DM*, Bjørnstad ON & Liebhold AM. Oral presentation. Landscape geometry and spatial waves of defoliation by an insect pest. Ecological Society of America Annual Meeting, Portland, OR.
- 2003 Johnson DM* Oral Presentation. Temporal variability in source-sink dynamics. Ecological Society of America Annual Meeting, Savannah, GA.
- 2002 Johnson DM* Oral Presentation. Direct and indirect effects of flooding on the spatial dynamics of a neotropical beetle. Ecological Society of America Annual Meeting, Tucson, AZ.
- 2002 Johnson DM* & Horvitz CC. Oral Presentation. The effects of flooding and patch size on movement patterns of *C. fenestrata*. Association for Tropical Biology Annual Meeting, Panama City, Panama. **(International)**
- 2001 Johnson DM* Oral presentation. Assumption violations and the predictive value of a metapopulation model. Ecological Society of America Annual Meeting, Madison, WI.
- 2000 Johnson DM* Poster Presentation. Patch size-dependent migration and semi-synchronous extinction in a beetle metapopulation. Ecological Society of America Annual Meeting, Snowbird, UT.
- 1994 Johnson DM* & Stiling PD. Oral presentation. A comparison of host choice between larval and adult *Cactoblastis cactorum*: Is one indicative of the other? Ecological Society of America Annual Meeting, Knoxville, TN.
- 1993 McCoy ED* Mushinsky HR, Johnson DM & Meshaka WE. Oral presentation. Effects of Hurricane Andrew on mangroves in southwest Florida. Ecological Society of America Annual Meeting, Madison, WI.
- 1993 Johnson DM* & Stiling PD. Poster presentation. Host specificity and impact of the exotic *Opuntia*-feeding moth *Cactoblastis cactorum* on native Florida cacti. Ecological Society of America Annual Meeting, Madison, WI.
- 1992 Johnson DM* & Stiling PD. Poster presentation. Host specificity and invasion dynamics of *Cactoblastis cactorum*, an exotic *Opuntia*-feeding moth in Florida. Entomological Society of America Annual Meeting, Baltimore, MD.

Awards, Recognition & Media

- 2017 **VCU News**. "Study shows commercial harvest of snapping turtles is leading to population decline." The article features the dissertation research of PhD candidate Benjamin Colteaux in the Johnson lab.
http://news.vcu.edu/article/Study_shows_commercial_harvest_of_snapping_turtles_is_leading
- 2015 **Virginia Wildlife Magazine**. "The (Un)Common Snapping Turtle." An article featuring the research of Benjamin Colteaux, a PhD candidate in the Johnson Lab.
http://media.wix.com/ugd/d9d77e_0da8797f1ea04a6f87c0b3885e34d107.pdf

- 2014 **VCU News.** “Biology Course Explores Ebola Epidemic in Real Time.” Article about my capstone course Outbreaks & Epidemics from 2014 Fall.
http://news.vcu.edu/students/Biology_course_explores_Ebola_epidemic_in_real_time
- 2012 **VCU News.** “Alien Invasion of the Trees: Bug-lover finds her niche as an undergraduate researcher at VCU.” The article features the summer research of UROP fellow Stephanie Roddy (Co-mentored by Derek Johnson & Karen Kester).
http://news.vcu.edu/article/Alien_Invasion_of_the_Trees
- 2012 **Richmond Times Dispatch.** “Virginia study will determine if snapping turtles are in decline.” Snapping turtle research by graduate student in Johnson lab featured in, Monday, August 13, 2012 edition.
http://www.richmond.com/news/article_46dae994-4525-54f5-b8bc-5625fc812639.html
- 2006 **Gypsy Moth Research** (from Johnson *et al.* (2006) *Nature* article) featured in articles in **New Scientist** magazine, **National Geographic** (online), and an **Associated Press** release.
- 2001 **Alwyn Gentry Award** – Best Student Oral Presentation. 2001. Modeling herbivore dynamics on Marantaceae: An empirical test of a metapopulation approach. Association for Tropical Biology Annual Meeting, Bangalore, India.
- 2000 **Alfred J. Lotka Award in Theoretical Ecology** – Best Poster Presentation. 2000. Semi-synchronous extinction and patch size-dependent migration in a beetle metapopulation. Ecological Society of America Annual Meeting, Snowbird, Utah.

Teaching

Awards

- 2003 **Award for Excellence in Research and Teaching in Biology**, 2003. Department of Biology, University of Miami.

Courses Taught

- 2017 **Guest Lecturer in Natural History of the James River Watershed** (BIOL 391 – C92, 4 credits, 12 students) – A field based course to learn about the combined natural and human history of the James River watershed. I provided a lecture on the gypsy moth effects in the watershed and my research.
- 2015 **Ecology** (BIOL 317, 3 credits, 60 students) – A core requirement for biology students that provides a comprehensive coverage of the subject.
- 2015-17 **Infectious Disease Ecology** (BIOL 491/BIOL 459, 3 credits, 28 undergraduate students in 2015, 56 undergraduate students in 2016) – I developed this course by partially incorporating materials acquired from leaders in the field for comprehensive coverage of the subject of infectious disease ecology, from transmission theory, to evolutionary ecology, to infectious disease management.

- 2014 **Capstone – Outbreaks & Epidemics** (BIOL 475, 1 credit, 2 sections, 15 undergraduate students per section) – I developed this course to follow the Ebola virus epidemic in real time through the Fall of 2014. Students learned fundamentals of infectious disease ecology, studied public and media responses, and followed the Ebola epidemic through Situation Reports from the World Health Organization.
- 2013-15 **Population Biology** (BIOL 520, 3 credits, 13 students in 2013, 5 students in 2014, 9 students in 2015. An upper-level undergraduate/graduate course). I developed this course at ULL. This course covers quantitative population biology through lectures, readings and discussions of the scientific literature, homework assignments to enhance understanding of population models, three exams, and class presentations.
- 2013 **Population Modeling** (BIOL 691, 2 credits, 6 students, graduate course) – I developed this course at VCU to give graduate students hands-on experience in population modeling through developing a research question and addressing the question by designing a modeling project. The students learn modeling through immersion in the R coding language. Population Biology is a suggested pre-requisite.
- 2013 **Guest Lecturer in Introduction of Bioscience II** (BIOL 152, 1 lecture):– A freshman-level seminar course to introduce students to the breadth of fields in the biological sciences and the scientists in the fields.
- 2012-17 (5x) **Invasion Biology** (BIOL 491/BIOL 430, 3 credits, 11-28 students per class, undergraduate course) – I developed this course based on a graduate course I taught previously under the same title at the University of Louisiana at Lafayette (ULL). The course covers the broad field of invasion biology from an ecological and historical perspective through lectures, readings from the scientific literature, writing critiques of the readings, and class discussions.
- 2012 **Guest Lecturer in Conservation Medicine** (BIOL 560, 2 lectures) – A graduate course. I gave lectures on SIR disease models and their applicability to understanding infectious disease epidemics and vaccination outcomes.
- 2011 **Outbreaks & Epidemics** (BIOL 693, 1 credit, 11 students, graduate course) – This is a course I developed to survey what is known about eruptive population dynamics through weekly readings from the current literature. Students wrote article critiques and participated in active class discussions on the weekly topics. I am designing a Capstone course on this subject for Fall 2014.
- 2011 **General Ecology** (3 credits & 1 additional lab credit, 12 students, undergraduate course) – A junior/senior-level course. I took over and modified an existing lecture course covering the principles of ecology. In addition to lecture classes, weekly lab assignments were given either in the laboratory or field environment to cover a wide range of ecological questions.
- 2010 **Ecology of Infectious Diseases** (3 credits, 4 students, a graduate course) – This course covered the role of infectious diseases in shaping spatiotemporal demographical patterns in populations through lectures and weekly readings from the literature.
- 2007, 9 **Invasion Biology** (3 credits, 6 students in 2007 & 8 students in 2009, a graduate course) – This course covered the broad field of invasion biology from an ecological and historical perspective, including the effects of historical and modern human movement patterns, effects of human disturbance, ecological factors, environmental impacts, and management practices.

- 2006, 08, 10 **Quantitative Ecology** (3 credits, 7 students in 2006, 11 students in 2008, & 14 students in 2010, a graduate course) This course was designed to introduce students to quantitative methods in ecology through lectures and discussions of scientific articles.
- 2006-08 **Evolution and Ecology** (3 credits, 159 students in 2006, 105 in 2007, & 127 students in 2008, an undergraduate course) – The course taught the general principles of evolution and ecology. The course was composed of lectures, regular multiple choice quizzes, and two exams.
- 2005 **Guest Lecturer, Biodiversity Inventory and Measurements: Current Issues** (Pennsylvania State University) – A graduate course. I lectured on monitoring regimes to maximize the number of species detected and minimize costs in an insect inventory. Pennsylvania State University.
- 2004 **Co-coordinator and Instructor, Insect Natural History** (Pennsylvania State University) – A graduate course. I taught statistical ordination methods for analyzing community data. Pennsylvania State University.
- 2000-03 **Co-coordinator and Instructor, Tropical Biology: An Ecological Approach (Organization for Tropical Studies, Costa Rica)**– A graduate course. The course covered multiple aspects of field ecology including proposal writing, hypothesis testing, experimental design, data analysis, and written and oral presentation of project results.
- 2002 **Teaching Assistant, General Biology Lab** (University of Miami)– An undergraduate course. The laboratory course covered the general principles in biology through pre-designed laboratory experiments.
- 2002 **Guest Lecturer, Theoretical Population Biology** (University of Miami) – A graduate course. I taught analysis of population dynamics through population projection matrix modeling.
- 1992-1993 **Teaching Assistant, Ecology Lab** (University of South Florida)– An undergraduate course. The laboratory covered ecological theory through computer models. University of South Florida.

Mentoring

Postdoctoral Researchers

Dr. Aaron Adamack (2016-2017) Funded by NSF grant.

Dr. Jonathan Walter (2014-present) Funded by USDA Postdoctoral Fellowship and Start-Up Budget.

Dr. Kristine L. Grayson (2012-2014) Funded USDA Postdoctoral Fellowship and Start-Up Budget.
Current Position: Assistant Professor, University of Richmond.

Dr. Kyle J. Haynes (2007-2009) Funded on USDA NRI Grant. Current Position: Research Assistant Professor, Department of Environmental Sciences, University of Virginia.

Graduate Students Mentored

- Adele Balmer, PhD student, 2017-present. Population ecology of the prothonotary warbler (*Protonotaria citrea*)
- Lauren Jurczak, MS student, 2017-present. Population demography of the spotted turtle (*Clemmys guttata*)
- Benjamin Colteaux, PhD student, 2017 (Fall - Projected), VCU. “Population viability of common snapping turtles in Virginia under increasing harvest pressure”. Louisiana Board of Regents Graduate Fellow (\$192,000), transferred to VCU in 2011 (Chair)
- Landon Jones, PhD candidate, 2017 (Fall - Projected), University of Louisiana at Lafayette. “Quantification of Seed Dispersal by Toucans in Tropical Forest and Sustainable Coffee Habitat”. Louisiana Board of Regents Graduate Fellow (\$192,000) (Co-Chair).
- Abigail Nelson, M.S. student, 2016, VCU. “The effect of urbanization on population dynamics of a forest defoliator”. (Chair)
- Kennesha Myrick, M.S. student, 2016, VCU. “Effects of olfactory cues on the foraging behavior of a carabid beetle, *Calosoma wilcoxi*, a predator of a forest defoliator”. (Chair)
- John Wojcikiewicz, M.S., 2014, VCU. “Indirect effects in a forest community: Linking deer, mice, and the gypsy moth”. (Chair)
- Lily Thompson, M.S., 2014, VCU. “The effects of habitat fragmentation on barriers to mate-finding in the European gypsy moth, *Lymantria dispar*” (Chair)
- Theodore Turluck, M.S., 2012, University of Louisiana at Lafayette. “Mechanisms of dispersal of the invasive grass *Phragmites australis* in southern Louisiana”. University of Louisiana Graduate Fellowship (\$83,000) (completed under different advisor after I moved to VCU)

Graduate Student Committee Member

- Elizabeth Koehler Schold, M.S. student, 2018 (projected), VCU
- Benjamin Nickley, M.S. student, 2018 (projected), VCU
- Jane Remfert, M.S. student, 2018 (projected), VCU
- Brandon Lind, PhD student, 2018 (projected), VCU
- Julie Charbonnier, PhD student, 2018 (projected), VCU
- Ben Sagara, M.S. student, 2017 (projected), VCU
- Trevor Faske, M.S. student, 2017 (projected), VCU
- Logan McDonald, M.S. student, 2017, VCU
- Joe Brown, M.S., 2016, VCU
- Taylor Beebe, M.S., 2016, VCU (Mathematics)
- Brendan Sostak, M.S., 2015, VCU
- Jenna Dodson, M.S., 2015, VCU
- Ben Dows, M.S., 2014, VCU
- Anna Tucker, M.S. 2014, VCU
- Ellen Goodrich-Stuart, M.S. 2014, VCU
- Vishahka, M.S., 2012, VCU
- Scott Walter, PhD, 2012, ULL
- Audrey Germane, PhD candidate, ULL (did not finish)
- Binod Regmi, PhD candidate, ULL (stepped down after move to VCU)
- Camilla Granados, PhD candidate, ULL (stepped down after move to VCU)
- Rebecca Davis, PhD student, ULL (stepped down after move to VCU)
- Phillip Vasseur, Master’s student, ULL (stepped down after move to VCU)
- Chris DeLay, M.S., 2011, ULL
- Susan John, M.S., 2011, ULL

Eric Tobin, M.S., 2011, ULL
Bridgette Nixon, M.S., 2010, ULL
Giri Athrey, PhD, 2010, ULL
Karen Wiens, PhD, 2009, ULL
Karen Klima, M.S., 2008, ULL
Kyle Patton, M.S., 2008, ULL

Outside Committee Member

Sophie Delamaire, PhD, 2009, INRA, Orléans, France (acted as Opponent for defense)
(International)
Heather Jackson, PhD, 2010, Louisiana State University

Undergraduate Students

National Science Foundation REU

Hannah Byrne (2017). “Examining cryptic components of boundary-limiting Allee effects: how topography may foster mate-finding failure in an invasive species”

UROP Fellowship

Alexandra Barry (2017). “Comparing two methods of quantifying an invasion-restricting component Allee effect in the defoliating pest *Lymantria dispar*”

Stephanie Roddy (2012, co-advised with Dr. Karen Kester). “Geographic heterogeneity in natural enemy attack on the gypsy moth (*Lymantria dispar*)”

Independent Study

Phillip Avery (Spring 2016). “Googling the worm: potential for online search trends as a method for monitoring fall cankerworm outbreaks”

Carl Meyers (Spring 2015). “Modeling historic Ebola outbreak dynamics in Africa: Effects of demographic changes on outbreaks”

Katrina G. Khalil (Spring 2014). “Growth and survival rate among gypsy moths fed lab diet and foliage”

Brett Butler (Summer 2012). “The Effect of Forest Structure on the Natural Enemies of the Gypsy Moth (*Lymantria dispar*)”

Lindy Meaux (University of Louisiana at Lafayette, 2010-11). “Natural enemies of the eastern tent caterpillar”

Directed Study

Carina Tatelman (Fall 2017). “Optimal management of a vector borne pathogen in a source-sink system”

Faisal Asif (Spring 2015). “A comparison of fall cankerworm damage on red and white oak species”

Ahmal Mohmand (Spring 2015). “Relationship between fall cankerworm herbivory and population numbers”

Research Assistants

Tyler Vargas (2016-17)	Joseph Neale (2014)
Braeden Branch (2016)	Sharron Woosley (2014)
Wilmer Amaya-Mejia (2015-16)	Nora Krajeh (2012-13).
Savanna Scott (2015-16)	Eric Burke (2012-13)
Carolyn Booth (2016)	Cynthia Scheurmann (2012-14)
Peter Alison (2016)	Nhung Nguyen (2012)
Phillip Avery (2016)	Sarah Sinclair-Govoni (2012)
Daniel Booth (2016)	Stacey Heflin (2012)
Sarah Mooneyham (2016)	Taylor Price (2014)
Rainey-Dale Delisle (2016)	Deborah Pridgen (2013)
Sunauz Moezzi (2016-17)	Ashley Holcomb (2013)
Barbara Morgan (2016)	Kate Johnson (2012)
Dominique Grim (2013-14)	Brittany Meyer (2012)
Trevor Faske (2013-14)	

Service

Departmental Service

- 2017 ***Global Biology PhD Proposal Committee:*** The committee is charged with developing a PhD program for the Department of Biology and writing the necessary pre-proposal and proposal to demonstrate need and relevance, and to develop new course syllabi.
- 2017 ***Promotion Committee:*** The committee was charged with assessing, producing a report, and making a recommendation regarding the application documents of term faculty member Mr. Danial Carr for promotion to assistant term faculty.
- 2017 ***Undergraduate Curriculum Committee:*** The committee reviews the undergraduate curriculum and proposed changes including assessing proposed new courses.
- 2017 ***Organismal/Population Ecologist Search Committee (Chair):*** The committee to hire a tenure-track faculty member with expertise and a demonstrated record of publication and funding record in the field of organismal and/or population ecology.
- 2016 ***Global Change Ecologist Search Committee (Chair):*** The committee to hire a tenure-track faculty member with expertise and a demonstrated record of publication and funding record in the field of a global change ecology.
- 2015-16 ***Ad hoc Hiring Strategy Committee:*** The committee was tasked with 10 faculty positions to be filled in Biology over the next five years to best meet departmental research and teaching needs.
- 2015-16 ***3-Year Review Committee:*** Reviewed the teaching and service performance of the term faculty member Mr. Danial Carr.
- 2011-2015 ***Budget and Facilities Committee (Chair from 2012-2015):*** The role of the this committee is to prioritize proposals for STF and HEETF funding to best provide the necessary equipment and infrastructure to facility cutting edge research by faculty and maintain the Biology Department and VCU status as a leading institution for student education and training.

- 2012-2015 **Biology Executive Committee:** The role of this committee is to shape the vision of the department through review and revision of departmental bylaws, committee missions, and the strategic plan for the coming years.
- 2012-2014 **Ad hoc Space Committee:** The Space Committee was formed to review faculty space utilization, create metrics to assess faculty productivity, and to make recommendations to the department chair regarding the most effective use of the department's limited space.
- 2012 **Global Change Biologist Search Committee:** I reviewed applications for the tenure track position of Global Change Biologist in the Department of Biology. I participated in the selection of interviewees and making a recommendation to the department regarding whom to hire.
- 2012 **Ad hoc Ecology Curriculum Committee:** I provided leadership in guiding the ecology curriculum over the coming five years.
- 2010-11 **Biology Website Committee:** Redesigned departmental website to improve the functionality and to broaden the Department of Biology's visibility on a national and international level.

College Service

- 2012-2015 **College of Humanities and Sciences Tech Committee:** The mission of this committee is to rank college-wide proposals for HEETF and STF-funded items to provide the necessary equipment and infrastructure to further increase the College of Humanities and Sciences' status as a leader in cutting edge research and student training.

University Service

- 2009-11 **Graduate Faculty Review Committee - University of Louisiana at Lafayette:** Graduate faculty were reviewed every 5-years to assess whether they would retain graduate faculty status and to maintain the high standard or integrity of graduate student training at the university.
- 2006-2010 **Mentor Program - University of Louisiana at Lafayette:** Each year I mentored one (two in 2008) incoming freshmen who has been identified as high risk for drop-out.

Professional Service

- 2017 **STS Technical Committee Member:** The committee goals are to provide technical support for the National Slow the Spread Program for gypsy moth management through research, analysis and discussions.
- 2016-2019 **Subject Editor:** A three year appointment on the editorial board of the journals *Ecology* and *Ecological Monographs* for the Ecological Society of America.
- 2016 **National Science Foundation (DEB) Proposal Reviewer:** Acted as expert reviewer for a collaborative research proposal.
- 2016 **Textbook Reviewer:** Reviewed three chapters of *Ecology: Concepts & Applications, 7th Edition* by Molles and proposed revisions for the 8th Edition for publisher McGraw Hill Education.
- 2006-2017 **Proposal Reviewer:** ad hoc National Science Foundation (3), Lawrence Livermore National Laboratory, International Science & Technology Center (Moscow, Russia).
- 2004-2016 **Journal Reviewer (97 reviews):** *Proceedings of National Academy of Sciences*, *American Journal of Botany* (2), *American Naturalist* (3), *Landscape Ecology* (4),

Biology Letters, Biological Invasions (2), Conservation Biology, Ecology Letters (10), Ecology (9), Ecological Applications (2), Ecography (3), Journal of Animal Ecology (6), Oecologia (4), Oikos (8), Methods in Ecology & Evolution, Global Change Biology, Proceedings of the Royal Society of London B (7), Nature Communications, PLoSOne (4), Population Ecology (5), Canadian Journal of Forest Research (2), Ecological Entomology (2), Entomologia Experimentalis et Applicata (2), Journal of Forest Ecology & Management (3), American Midland Naturalist, Biological Invasions (2), Ecological Modelling (2), Ecological Research (2), Environmental Entomology, Journal of Applied Ecology, Journal of Insect Science, Journal of Pest Science, Journal of Theoretical Biology, Silva Fennica.

- 2015 **Fall Cankerworm Task Force Meetings (Attendee & Host):** On June in Woodbridge VA the first meeting brought together fall cankerworm researchers and professionals from governmental agencies to strategize and coordinate monitoring, management, and research of the fall cankerworm in the Mid-Atlantic Region. I hosted the second meeting of the Fall Cankerworm Task Force at VCU on October 19, 2015. Approximately 20 fall cankerworm researchers from academia and professionals from governmental agencies met to present results from the previous season and to strategize and coordinate monitoring, management, and research of the fall cankerworm in the Mid-Atlantic Region.
- 2015 **Gypsy Moth Summit (Host):** Hosted the Gypsy Moth Summit (3rd Annual) at VCU Rice Rivers Center, October 29-30. An informal annual meeting of approximately 15 forest insect ecologists from VCU, UVA, Cornell Univ., Univ. of Washington, SUNY ESF, and Natural Resources Canada met to present and discuss new research, and build collaborations for future research and grant writing projects.
- 2014 **Symposium Organizer:** Multi-scale Approaches to the Ecology and Management of Forest Insect Pests in Eastern North America. Co-organizers David Jennings & Derek Johnson. Eastern Branch of the Entomological Society of America – Williamsburg, VA, March 16-18.
- 2006 **Book Reviewer:** Pearson Prentice Hall (*Ecology and Evolution of the Organism* 2005 by Rose & Mueller).

Community Service

- 2016 **Henrico County Master Gardeners:** Public lecture titled “The Fall Cankerworm” on the biology, ecology, impacts, monitoring, and management of the fall cankerworms given on March 23.
- 2015-16 **Stutter Social Host:** Stutter Social is an online resource for persons who stutter to join scheduled internet chat rooms to talk to other people who stutter. I moderate an environment for persons who stutter to discuss issues related to stuttering in a safe environment for 90 minutes twice monthly.
- 2009-2015 **Research Committee (NSA-RC) Member - National Stuttering Association:** The research committee reviews research proposals that will involve NSA members as subjects in research on stuttering. The primary mission of the NSA-RC is to ensure that the research is conducted ethically, similar to the mission of the Institutional Review Board (IRB). Specifically, the committee is to ensure that the proposed research will not harm the subjects physically nor psychologically. Secondly, we the committee review the study design and make recommendations when warranted. As a scientist who is also a stutterer, I had a special role on the NSA-RC.

- 2006-11 **Officer (2008-11 Local Group Leader) - National Stuttering Association:**
Lafayette, Louisiana Chapter. The Lafayette Louisiana Chapter won the Chapter of the Year award at the 2008 Annual NSA Conference in Parsippany, New Jersey.
- 2006-07, 09 **Judge:** Louisiana Region VI Science Fair.
- 2007 **Volunteer:** University of Louisiana Literary Rally.
- 2007 **Oral Presentation:** National Stuttering Association National Meeting in Atlanta, GA, June 28-30, 2007.