

TANIA N. KIM

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EDUCATION AND TRAINING

- Post-doc. University of Wisconsin (mentor: Claudio Gratton) 2013-present
- Ph.D. Florida State University (mentor: Nora Underwood) 2006-2012
- M.Sc. University of Florida (mentor: Bob Holt) 2003-2006
- B.Sc. McGill University (Montreal, Canada) 1995-1999

PEER-REVIEWED PUBLICATIONS (* Undergraduate author)

- **Kim, T. N.** 2017. Neighborhood composition influences damage to plants and four mechanisms of associational resistance and susceptibility. *Accepted at PlosOne*.
- **Kim, T. N.**, Fox, A. F., Wills, B. D., Meehan, T. M., Landis, D. A., and C. Gratton. 2017. Annual harvesting of biofuel grasslands has mixed effects on natural enemy communities and no effect on biocontrol services. *Journal of Applied Ecology*. DOI: 10.1111/1365-2664.12901.
- Fox, A. F., **T. N. Kim**, C. A. Bahlai, J. M. Woltz, C. Gratton, and D. A. Landis. 2016. Cover crops have neutral effects on predator communities and biological control services in annual cellulosic bioenergy cropping systems. *Agriculture, Ecosystems & Environment*. 232: 101–109.
- *Wenninger, A., **T.N. Kim**, B. J. Spiesman, and C. Gratton. 2016. Contrasting foraging patterns: testing resource-concentration and dilution effects with pollinators and seed predators. *Insects*. 7:23.
- Gratton, C, M. Casler, R. Groves, and **T. N. Kim**. 2015. Insecticide applications have minor effects on switchgrass biomass yield. *Agronomy Journal*. 107: 2031–2037.
- **Kim, T.N.**, B.J. Spiesman, A.L. Buchanan, A. Hakes, S. Halpern, B.D. Inouye, A. Kilanowski, N. Kortessis, D.W. McNutt, A.C. Merwin, and N. Underwood. 2015. Selective manipulation of a non-dominant plant and its herbivores affects an old-field plant community. *Plant Ecology*. 216:1029–1045.
- **Kim, T.N.** and N. Underwood. 2015. Plant neighborhood effects on herbivory: Damage is both density and frequency dependent. *Ecology*. 96: 1431–1437.
- Liere, H., **T.N. Kim**, B.P. Werling, T.D. Meehan, D.A. Landis, C. Gratton. 2015. Trophic cascades in agricultural landscapes: indirect effects of landscape composition on crop yield. *Ecological Applications*. 25: 652–661.
- Skevas, T., S.M. Swinton, T.D. Meehan, **T.N. Kim**, C. Gratton and A. Egbendewe-Mondzozo. 2014. Integrating agricultural pest biocontrol into forecasts of energy biomass production. *Ecological Economics* 106:195–203.
- **Kim, T.N.** 2014. Plant damage and herbivore performance change with latitude for two old-field plant species, but rarely as predicted. *Oikos* 123: 886-896.
- **Kim, T.N.**, N. Underwood, and B.D. Inouye 2013. Insect herbivores change the outcome of plant competition through effects on inter- and intraspecific processes. *Ecology* 94: 1753-1763.
- **Kim, T.N.**, and R.D. Holt. 2012. The direct and indirect effects of fire on the assembly of insect herbivore communities: examples from the Florida scrub habitat. *Oecologia*. 168:997-1012.

Manuscripts in submitted, review, or revision:

- **Kim, T. N.**, *Bartel, S., Wills, B. D., Landis, D. A., and C. Gratton. Harvesting differentially affects alpha and beta diversity of ant communities in prairie grasslands. *In review at Diversity and Distributions.*
- **Kim, T. N.**, *Bartel, S., and C. Gratton. Annual harvesting influences isotopic signals of plants and ants; implications for trophic structure in grasslands. *Fully drafted to be submitted to Oecologia*

NON-PEER REVIEWED PUBLICATIONS

- Dixon, K., Brown, G., Underwood, N., Winn, A., Moscarella, R., Garcia, B., **Kim, T.**, McNutt, D., Strimaitis, A., Pearson, V., and A. Landry. 2015. BSC 2011L Investigations in Biology; Biological Science II Laboratory Manual. Department of Biological Science, Florida State University. Hayden-McNeil Publishing, Plymouth MI.
- Diffendorfer, J.E., **T.N. Kim**, and B.J. Spiesman 2003. Small Mammal Monitoring and Inventory at Chino Hills State Park. California State Parks. Lake Perris, California.

PRESENTATIONS (* Undergraduate author)

2017

- **Kim, T.N.** Trophic cascades in agricultural landscapes: indirect effects of landscape composition on plant yield. Invited talk at Swarthmore College. Swarthmore, PA.
- **Kim, T.N.** Location matters: How spatial context and scale influence plant-insect interactions. Invited talk at Colby College. Waterville, ME.
- **Kim, T.N.** Food web interactions in annual and perennial bioenergy systems. Invited talk at the University of North Carolina Greensboro. Greensboro, NC.
- **Kim, T.N.** Food web interactions in annual and perennial bioenergy systems. Invited talk at Clemson University. Clemson, SC.
- **Kim, T.N.**, Spiesman, B.J., Bukhman, Y., Jusino, M., and C. Gratton. Gut-content analysis: Using next-generation sequencing to detect insect prey items in ladybird beetles. Poster at the Gordon Research Conference on Plant-Herbivore Interactions. Ventura, CA.

2016

- **Kim, T.N.** The influence of spatial context and scale on consumer-resource interactions. Invited talk at the University of Florida, Tropical Research and Education Center. Homestead, FL.
- **Kim, T.N.**, B. J. Spiesman and C. Gratton. Dynamic resource landscapes: the role of temporal heterogeneity in resource availability for consumer-resource interactions. Invited talk at the California State University at Bakersfield Department of Biological Sciences seminar series. Bakersfield, CA.
- *Bartel, S., **Kim, T. N.**, Wills, B.D., and C. Gratton. The effects of annual harvesting on ant community structure and diet breadth. Poster presentation at the WI Ecology Spring Symposium. Madison, WI.
- **Kim, T.N.**, Spiesman, B.J., Bukhman, Y., Jusino, M., and C. Gratton. Gut-content analysis: Using next-generation sequencing to detect insect prey items in ladybird beetles. Poster presentation at the Great Lakes Bioenergy Research Center Annual Retreat at Kellogg Biological Station. Hickory Corners. MI.
- **Kim, T.N.** The influence of spatial context and scale on consumer-resource interactions. Invited talk at the Minnesota State University at Mankato Department of Biological Sciences seminar series. Mankato, MN.
- **Kim, T.N.** Location matters: How spatial context influences consumer-resource interactions. Invited talk at the Marquette University, Department of Biological Sciences seminar series. Milwaukee, WI.

2015

- **Kim, T.N.**, H. Liere, T.D. Meehan, A.F. Fox, B. P. Werling, D.A. Landis, and C. Gratton. Landscape heterogeneity does not influence the stability of predators and pest suppression in annual and perennial habitats. Invited talk at the Entomological Society of America, Annual Meeting, Minneapolis, MN.
- Gratton, C., B. J. Spiesman, and **T. N. Kim**. Dynamic resource landscapes: How landscape-scale spatial and temporal variation in resource availability affects predatory insects and biocontrol. Invited talk at the Entomological Society of America, Annual Meeting, Minneapolis, MN.
- **Kim, T.N.**, H. Liere, T.D. Meehan, A.F. Fox, B. P. Werling, D.A. Landis, and C. Gratton. Landscape heterogeneity does not influence the stability of predators and pest suppression in annual and perennial habitats. Poster at the Ecological Society of America, Annual Meeting, Baltimore, MD.
- **Kim, T.N.** Location matters: How spatial context influences consumer-resource interactions. Invited talk at the Eastern Kentucky University, Department of Biological Sciences seminar series. Richmond, KY.
- **Kim, T.N.**, A.F. Fox, H. Liere, T.D. Meehan, D.A. Landis, and C. Gratton. Harvesting effects on beneficial insect diversity and ecosystem function in perennial grasslands. Poster at the Great Lakes Bioenergy Research Center Annual Retreat. South Bend, IN.
- **Kim, T.N.** Location matters: How spatial context influences consumer-resource interactions. Invited talk at the University of Wisconsin, Department of Entomology seminar series. Madison, WI.
- **Kim, T.N.** Collaboration networks at the Great Lakes Bioenergy Research Center. Invited talk at the Great Lakes Bioenergy Research Center Annual Sustainability Retreat. Hickory Corners, MI.

2014

- **Kim, T.N.**, H. Liere, T.D. Meehan, A.F. Fox, D.A. Landis, and C. Gratton. Harvesting and landscape effects on natural enemy abundance & biocontrol in perennial grasslands. Poster at the Entomological Society of America, Annual Meeting, Portland, OR.
- Fox, A., **T.N. Kim**, M. Woltz, T.D. Meehan, C. Gratton, and D.A. Landis. Evaluating the impact of winter cover crops on predator abundance & biocontrol services in continuous corn biofuel cropping systems. Poster at the Ecological Society of America, Annual Meeting, Sacramento, CA.
- **Kim, T.N.**, H. Liere, T.D. Meehan, A.F. Fox, D.A. Landis, and C. Gratton. Harvesting and landscape effects on natural enemy abundance & biocontrol in perennial grasslands. Poster at the Ecological Society of America, Annual Meeting, Sacramento, CA.
- Spiesman, B.J., **T. N. Kim**, H. Liere, T.D. Meehan, and C. Gratton. Investigating the effects of production-scale harvesting on pollination and biocontrol services in bioenergy grasslands. Invited talk at the Ecological Society of America, Annual Meeting, Sacramento, CA.

2013

- **Kim, T. N.** The effects of neighborhood composition on four mechanisms of associational resistance and susceptibility. Poster at the Gordon Research Conference on Plant-Herbivore Interactions. Ventura, CA.
- **Kim, T.N.**, H. Liere, B.P. Werling, T.D. Meehan, D.A. Landis, and C. Gratton. Trophic cascades in agricultural landscapes. Poster at the Ecological Society of America, Annual Meeting, Minneapolis, MN.
- **Kim, T. N.**, H. Liere, B.P. Werling, T D. Meehan, D.A. Landis, and C. Gratton. Trophic cascades in agricultural landscapes: indirect effects of landscape composition on crop yield. Invited talk at the Entomological Society of America, Annual Meeting, Austin, TX.

2012

- **Kim, T.N.**, and N. Underwood. The effects of neighborhood composition on four mechanisms of associational resistance and susceptibility. Talk at the Ecological Society of America Annual Conference. Portland, OR.

2011

- **Kim, T. N.**, and N. Underwood. Latitudinal variation in plant palatability and herbivore pressure in two old-field plant species, *Solanum carolinense* and *Solidago altissima*. Poster at the Evolutionary Ecology Across Trophic Levels: An International Symposium in Honor of Warren Abrahamson. Lewisburg, PA.
- **Kim, T.N.**, and N. Underwood. The effects of neighborhood composition and spatial extent on patterns of associational resistance and susceptibility. Talk at the Ecological Society of America Annual Conference. Austin, TX.
- **Kim, T, N.**, and N. Underwood. The effects of neighborhood composition and spatial extent on patterns of associational resistance and susceptibility. Poster at the European Ecology Federation Meeting. Avila, Spain.

2010

- **Kim, T, N.**, and N. Underwood. Latitudinal variation in plant palatability and herbivore pressure in two old-field plant species, *Solanum carolinense* and *Solidago altissima*. Talk at the Ecological Society of America Annual Conference. Pittsburgh, PA.
- *Huot, O. B.; **Kim, T. N.**, Halpern, S. L., and N. Underwood. Induced response of *Solanum carolinense* to dispersed and aggregated leaf damage. Poster at the Ecological Society of America Annual Conference. Pittsburgh, PA.

2009

- **Kim, T, N.**, Underwood, N., and B. D. Inouye. The short and long-term effects of insect herbivores on plant competition and coexistence. Talk at the Southeast Ecology and Evolution Conference (SEEC). Gainesville, FL.
- *Eckert, R., **Kim, T. N.**, and N. Underwood. Associational resistance among genotypes of *Solanum carolinense*. Poster at SEEC. Gainesville, FL.
- **Kim, T, N.**, Underwood, N., and B. D. Inouye. The effects of insect herbivores on competition between two perennial plants, *Solidago altissima* and *Solanum carolinense*. Talk at the Ecological Society of America Annual Conference. Albuquerque, NM.

2007

- **Kim, T. N.** and R.D. Holt. The direct and indirect effects of fire on insect herbivore communities. Poster at the Ecological Society of America Conference. San Jose, CA.

TEACHING EXPERIENCE

University of Wisconsin

- Insect Ecology for grad students (Guest lecturer and guest lab instructor) 2013, 2015
- NSF Research Experience for Teachers (mentor for teachers) 2013, 2015, 2017

Florida State University

- Conservation Biology (Lecture and lab teaching assistant) 2012
- General Ecology (Lecture teaching assistant and guest lecturer) 2012
- Plant Biology (Lecturer and lab coordinator) 2011
- Insect Ecology Experimental Biology (Lab teaching assistant) 2011
- Plant Biology (Lab coordinator, lab instructor & lecture teaching assistant) 2007-2010
- Experimental Biology in Foraging Ecology (Lecture and lab teaching assistant) 2007
- General Biological Science Laboratory (Lab instructor) 2006

University of Florida

- Integrative Principles in Biology (Lecture assistant and lecturer) 2006
- Integrative principles in Biology Laboratory (Lab instructor) 2006
- General Ecology (Lecture and lab teaching assistant) 2005
- Integrative Principles in Biology Laboratory (Lab instructor) 2003-2004

UNDERGRADUATE MENTORING

- William Sandvold (2017). The influence of density and resource quality on biases in sex-ratios of bean beetles. Currently a sophomore at UW.
- Savannah Bartel (2015-2016). The effects of grassland harvesting on ant communities and trophic position using stable isotope approaches. Currently a lab technician at UW.
- Caitlin Bergstrom (2014). The effects of harvesting on the abundances of two ant species, *Formica montana* and *F. creightoni*. Currently at ICF International, Washington, DC.
- Alexandria Wenninger (2013). The influence of plant morphology on pollinator visitation rates, seed set, and seed predation on *Rudbeckia hirta* and *Verbena stricta*. Currently a MS student at University of Alaska-Fairbanks.
- Arsalan Arshad (2011). The effects of plant quality and herbivore density on the distribution and foraging behaviors of herbivores (*Spodoptera exigua*). Currently a medical student at FSU.
- Alexandra Marsh (2011). The effects of plant frequency and density on predator and herbivore colonization rates. Currently teaching English in Korea.
- Jessica Stanfield (2009). Latitudinal variation in plant palatability and herbivore preference in two perennial plants, *Solanum carolinense* and *Solidago altissima*. Currently a lab technician at Advanced Environmental Labs Inc. in Tampa, FL.
- Ordum Huot (2009). The effects of dispersed and concentrated herbivore damage on induced resistance in *Solanum carolinense*. Current a Ph.D. student at Texas A&M.
- Ryan Eckert (2008-2009). Associational resistance among genotypes of *Solanum carolinense*. Currently a research scientist at Flower Garden Banks National Marine Sanctuary, TX.

OTHER RESEARCH AND PROFESSIONAL EXPERIENCE

- Herbarium curator (FSU Robert K. Godfrey Herbarium, FL) 2010
- Research assistant in food-web ecology (San Diego State University, CA) 2001-2003
- Research assistant in invasion biology (USGS-BRD, Kilauea Field Station, HI) 2000
- Research intern in marine ecology (U of Maine, Darling Marine Center, ME) 1999

GRANTS, FELLOWSHIPS, & AWARDS

- Graduate Women in Science Fellowship (pending) 2017
- Prairie Biotic Research Small Grant 2016
- UW Madison Award for Undergraduates Mentoring Nomination 2016
- USDA AFRI Grant (*unfunded but ranked as high priority*) 2016
- USDA NRCS Conservation Innovation Grant 2014-2016
- NSF Doctoral Dissertation Improvement Grant 2011
- Florida State University (FSU) Outstanding Teaching Assistant Award Nomination 2011
- Florida State University (FSU) Outstanding Teaching Assistant Award 2010
- Dissertation Research Grant from the FSU Graduate School 2009
- Robert K. Godfrey Endowment Award in Botany at FSU 2008, 2009
- Frances Peacock Scholarship, Cornell Lab of Ornithology & Garden Club of Amer. 2005
- Grinter Fellowship at University of Florida (UF) 2003-2006
- Florida Native Plant Society Endowment Award 2004
- Graduate student research grant (Department of Zoology at UF) 2004

OUTREACH & PROFESSIONAL SERVICE

- Graduate Women in Science grant panel reviewer 2016
- Mentor for NSF Research Experience for Teachers program (UW) 2013, 2015
- Curriculum committee for Introductory Biology at Florida State University (FSU) 2012
- Created and maintained website for undergrad research opportunities (FSU) 2008-2012 (<http://www.bio.fsu.edu/undergrad/researchchops.php>)

- Lead symposium organizer at the ESA Annual Conference (Pittsburgh, PA) 2010
- Co-organizer of an organized session at ESA (Pittsburgh, PA) 2010
- Middle-school instructor in marine and wetland ecology (FSU) 2009
- Treasurer for Ecology and Evolution graduate student group (FSU) 2009
- Union representative for Graduate Assistants United (FSU) 2009

PROFESSIONAL SOCIETY MEMBERSHIPS

Ecological Society of America, Entomological Society of America, Florida Native Plant Society, Wisconsin Ecology, Women in Science & Engineering Leadership Institute (WISELI) at UW Madison.

JOURNAL REFEREE

Basic and Applied Ecology, Biotropica, Ecological Applications, Ecological Entomology, Ecology, Ecosphere, Evolutionary Ecology, Journal of Ecology, Journal of Insect Science, Oecologia, Oikos, PlosOne, Trends in Ecology and Evolution.