

# TANIA N. KIM

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## EDUCATION AND AFFLIATION

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- Assistant Professor Kansas State University 2018-present
- Visiting Assistant Professor Swarthmore College 2017 - 2018
- Post-doc. University of Wisconsin (mentor: Claudio Gratton) 2013-2017
- 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, †graduate student author)

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1. Wills, B.D., **Kim, T.N.**, Fox, A. F., Gratton, C. and D. A. Landis. Reducing native ant abundance decreases predation rates in Midwestern grasslands. *Accepted at Environmental Entomology*.
2. Dainese, M., Martin, E. A., [+85 authors including **Kim, T. N.**]. 2019. A global synthesis reveals biodiversity-mediated benefits for crop production. *Accepted at Science Advances*
3. **Kim, T. N.**, †Bartel, S., and C. Gratton. 2019, Grassland harvesting alters ant community trophic structure: an isotopic study in tallgrass prairies. *Accepted at Ecology and Evolution*.
4. **Kim, T. N.**, †Bartel, S., Wills, B. D., Landis, D. A., and C. Gratton. 2018. Harvesting differentially affects alpha and beta diversity of ant communities in prairie grasslands. *Ecosphere* 9 (10) e02399.
5. Karp, D. S, Chaplin-Kramer, R, Meehan, T.D. Martin, E. A., DeClerck, F., Grab, H. Gratton, C., Hunt, L., Larsen, A., Martinez-Salinas, A. O'Rourke, M., Rusch, A., Poveda, K., Jonsson, M., Rosenheim, J. A., Schellhorn, N., Tschardtke, T., Wratten, S. D., Zhang, W., Iverson, A. L., [+137 authors including **Kim, T.N.**]. 2018. Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. *Proceedings from the National Academy of Sciences* 115:E7863–E7870.
6. **Kim, T. N.** 2017. Neighborhood composition influences damage to plants and four mechanisms of associational resistance and susceptibility. *PlosOne* 12(5): e0176499. <https://doi.org/10.1371/journal.pone.0176499>.
7. **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.
8. 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.
9. \*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.
10. 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.
11. **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.
12. **Kim, T.N.** and N. Underwood. 2015. Plant neighborhood effects on herbivory: Damage is both density and frequency dependent. *Ecology*. 96: 1431–1437.
  13. 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.
  14. 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.
  15. **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.
  16. **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.
  17. **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 pipeline:*

18. Halpern, S.L, Ohgushi, T., Utsumi, S. and **T.N. Kim**. Enemy reduction and release on *Solanum carolinense* in introduced populations in Japan. *In review at the American Journal of Botany*.
19. Tamburini, G., Santoiemma, G., O'Rourke, M. Bommarco, R., Chaplin-Kramer, R., Dainese, M., Karp, D. S., **Kim, T. N.**, Martin, E. A., and L. Marini. Semi-natural habitats favour exotic pests but reduce populations of native crop specialists. *In review at Ecology Letters*.
20. **Kim, T.N.**, Spiesman, B.J., Bukhman, Y., Jusino, M., and C. Gratton. Using next generation sequencing to infer feeding relationships in agroecosystem. *In prep*.
21. †Bartel, S., **Kim, T. N.**, Spiesman, B. J., and C. Gratton. Annual harvesting of perennial grasslands alters body size distributions of ants and bees. *In prep*

**NON-PEER REVIEWED PUBLICATIONS**

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1. 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.
2. 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** (past three years only, †graduate student author)

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2019

- **Kim, T.N.**, Marshall, J.L., McCornack, B. and K. Silver. Let's discuss! Promoting, assessing, and evaluating classroom discussions in large and small classes. Invited talk at the Entomological Society of America Annual Conference, St. Louis, MO.
- †Butters, J., **Kim, T. N.**, Murrell, E., Spiesman, B. J., Van Tassel, D., and B. Schlautman. Living on the edge: Determining the potential of multipurpose perennial crops as habitat for native pollinators and natural enemies. Poster at the Entomological Society of America Annual Conference, St. Louis, MO.
- †Stowe, H., J. P. Michaud, and **T. N. Kim**. Does *Hippodamia convergen* life history benefit from omnivory compared to a monotypic diet of suitable prey? Talk at the Entomological Society of America Annual Conference, St. Louis, MO
- †Ponce, M. **Kim, T. N.**, and R. Morrison III. Interactions between the microbial and insect community affect grain quality in the post-harvest environment. Poster at the Entomological Society of America Annual Conference, St. Louis, MO.

- **Kim, T.N.** Disturbance effects on insect biodiversity and ecosystem function in grasslands. Invited talk at Luther College (Biology). Decorah, IA.
- **Kim, T.N.** Trophic cascades in agricultural landscapes: indirect effects of landscape composition on plant yield. Invited talk at Kansas State University (Plant Pathology). Manhattan, KS.
- **Kim, T.N.** Disturbance effects on insect biodiversity and ecosystem function in grasslands. Invited talk at Kansas State University (Biology). Manhattan, KS.
- **Kim, T.N.** Trophic cascades in agricultural landscapes: indirect effects of landscape composition on plant yield. Invited talk at the University of Kentucky. Lexington, KY.
- **Kim, T.N.** Disturbance effects on insect biodiversity and ecosystem function in grasslands. Invited talk at the University of Kentucky. Lexington, KY.

2018

- **Kim, T.N.,** Spiesman, B.J., Bukhman, Y., Jusino, M., and C. Gratton. Using Next Generation Sequencing to Determine Predator-Prey Associations. Poster at Entomological Society of America Annual Conference, Vancouver BC.
- **Kim, T.N.** Using stable isotopes and next-generation sequencing to infer feeding relationships of insects in agricultural landscapes. Invited talk at Kansas State University. Manhattan, KS.
- **Kim, T.N.** Trophic cascades in agricultural landscapes: indirect effects of landscape composition on plant yield. Invited talk at Lawrence University. Appleton, WI.

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.
- **Kim, T.N.,** Wills, B.D, Landis, D., and C. Gratton. Insect herbivore effects on plant damage and productivity of four candidate biofuel crops. Poster at the Gordon Research Conference on Plant-Herbivore Interactions. Ventura, CA.

2016-2007: Posters: 14; Contributed talks: 5; Invited talks: 12

## TEACHING EXPERIENCE

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### *Kansas State University*

- Economic Entomology (Faculty instructor) 2019
- Insect Ecology (Faculty instructor) 2019
- Quantitative Methods (Workshop) 2019

### *Swarthmore College*

- Organismal and Population Biology (Faculty instructor) 2018
- Ecology (Faculty instructor) 2017

### *University of Wisconsin*

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

### *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 (lecturer, lab instructor) 2003-2004, 2006
- General Ecology (Lecture and lab teaching assistant) 2005

## **GRADUATE MENTORING**

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- Jessica Butters – Master’s student, major advisor (2019-2021)
- Marco Ponce – PhD student, co-advised with Dr. Rob Morrison (2019-2023)
- Hannah Stowe – Master’s student, major advisor (2019-2021)
- Hannah Quellhorst – PhD student (Entomology), committee member (2018-2022)
- Dee Roof – Master’s student (Arts and Design), committee member (2018-2020)

## **UNDERGRADUATE MENTORING**

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Paige Connor (2019); Weston Ahles (2019); Savannah Piper (2018-2019); Madison Lofing (2018); Ethan Chapman (2018); William Sandvold (2017); Savannah Bartel (2015-2016); Caitlin Bergstrom (2014); Alexandria Wenninger (2013); Arsalan Arshad (2011); Alexandra Marsh (2011); Jessica Stanfield (2009); Ordomb Huot (2009); Ryan Eckert (2008-2009)

## **GRANTS, FELLOWSHIPS, & AWARDS**

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- USDA Agriculture Food and Research Initiative Grant (\$455,000) 2018-2021
  - USDA Hatch Multistate (\$10,000) 2019-2023
  - USDA NRCS Conservation Innovation Grant (\$49,997) 2018-2021
  - Association of College and University Educators(ACUE) Teaching Training Fellowship 2019
  - Swarthmore College Faculty Research Award (\$4,000) 2017
  - UW Madison Award for Undergraduates Mentoring Nomination 2016
  - USDA NRCS Conservation Innovation Grant (\$89,167) 2014-2016
  - NSF Doctoral Dissertation Improvement Grant (\$14,975) 2011
  - Florida State University Outstanding Teaching Assistant Nomination\* 2011
- \*not qualified to receive award because I won the previous year
- Florida State University (FSU) Outstanding Teaching Assistant Award (\$500) 2010
  - Grants-in-aid of Research (FSU Graduate School) (\$750) 2009
  - Robert K. Godfrey Endowment Award in Botany at FSU (\$2,000) 2008, 2009
  - Frances Peacock Scholarship & Garden Club of USA grant (\$4,000) 2005
  - Grinter Fellowship at University of Florida (UF) (\$9,000) 2003-2006
  - Florida Native Plant Society Endowment Award (\$2,000) 2004
  - Grants-in-aid of Research (UF Graduate School) (\$500) 2004

## **JOURNAL REFEREE**

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

## **OUTREACH & PROFESSIONAL SERVICE**

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- USDA Research and Extension Experience for Undergraduates Mentor 2019
- USDA Disease Ecologist Scientist Search Committee 2019
- K-State University Committees (Seminar; Planning) 2018-2019
- Trait-based Approach to Understanding Insect Biodiversity Loss International Working Group 2018-2019
- 500 Women Scientists KS Group Organizer 2019
- IPM4Bees Midwest Working Group 2019
- K-State Advancement of Women in Science and Engineering mentor 2018-2019
- Graduate Women in Science grant panel reviewer 2016-2018
- 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/researchops.php>)
- Lead symposium organizer at the ESA Annual Conference 2010
- Co-organizer of an organized session at ESA Annual Conference 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**

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Ecological Society of America, Entomological Society of America, Society for Conservation Biology, Garden Club of America, Wisconsin Ecology, Women in Science & Engineering Leadership Institute (WISELI) at UW Madison, K-State Advancement of Women in Science and Engineering (KAWSE) at Kansas State University