

Punya Nachappa

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Educational Background

2005-2008	Ph.D. (Entomology), Kansas State University, Manhattan, KS.
2002-2004	M.S. (Entomology), University of Georgia, Athens, GA.
1997-2001	B.Sc. (Agriculture), University of Agricultural Sciences, Bangalore, India.

Professional Appointments

August 2018-Current	Assistant Professor, Department of Bioagricultural Sciences and Pest Management, Colorado State University
August 2017-May 2018	Associate Professor, Department of Biology, Purdue University Fort Wayne (PFW)
August 2012-July 2017	Assistant Professor, Department of Biology, PFW
April 2010-July 2012	Post-Doctoral Research Associate, Department of Entomology, Texas A & M University
September 2008- March 2010	Post-Doctoral Research Associate, Department of Entomology, Kansas State University
January 2005-August 2008	Graduate Research Assistant, Department of Entomology, Kansas State University
August 2002- December 2004	Graduate Research Assistant and Teaching Assistant, Department of Entomology, University of Georgia

Awards

2018	International IPM Award of Excellence, The North Central Soybean Entomology Research and Extension Team.
2018	Faculty of the Year Award from the Tri-Beta Honor's Society, Department of Biology, PFW
2016	Pippert Research Award, IPFW College of Arts and Sciences
2016	Faculty of the Year Award from the Tri-Beta Honor's Society, Department of Biology, PFW
2014	Hemipteran-Plant Interactions Symposium- Binational Agriculture and Research Development program (BARD) Travel grant (\$1300).
2011-2012	NSF-Faculty Institute for Reforming Science Teaching (FIRST IV), Teaching fellowship
2008	R. C. Smith Ph. D. Student Award, Department of Entomology, Kansas State University (KSU)
2007	First place, President's Prize, Oral presentation, Entomological Society of America (ESA) Annual Meeting
2007	Popenoe Entomology Travel Grant for Outstanding Service, Department of Entomology,

- KSU
- 2007 First place in Ph.D. Student Oral Presentation, North Central Branch Meeting (NCB), ESA Meeting
- 2007 O. W. Spide Morris Graduate Student Service Award, Department of Entomology, KSU
- 2007 Gamma Sigma Delta Ph.D. Student Research Award, KSU Chapter
- 2006 R. H. Painter Ph.D. Student Award, Department of Entomology, KSU
- 2006 Second place, President's Prize, Oral presentation, ESA Annual Meeting
- 2006 International Congress of Acarology Travel Grant
- 2006 Second place in Ph.D. Student Poster Competition, NCB-ESA Meeting
- 2005-07 Don Warren Genetic Fund Scholarship, College of Agriculture, KSU
- 2005-07 Graduate Student Council Travel Grant, KSU
- 2005 Second place in Linnaean Games, NCB-ESA Meeting

Peer-Reviewed Publications

1. Han, J., Yu, I., Nalam, V and **Nachappa, P.** 2019. Vector Competence of thrips species to transmit Soybean vein necrosis virus. *Frontiers in Microbiology* 10:431. doi: 10.3389/fmicb.2019.00431
2. Keough, S., Danielson, J., Marshall, J., Lagos, D., Voegtlin, D., Srinivasan, R., and **Nachappa, P.** 2018. Factors affecting population dynamics of thrips vectors of *Soybean vein necrosis virus*. *Environmental Entomology*. 47(3):734-740.
3. Angelella, G., Nalam, V.J., **Nachappa, P.**, White, J and Kaplan, I. 2018. Endosymbionts Differentially Alter Exploratory Probing Behavior of a Nonpersistent Plant Virus Vector *Microbial Ecology* (2018) 76:453–458.
4. Keough, S, Han, J., Shuman, T., Wise, K., and **Nachappa, P.** 2016. Effects of *Soybean vein necrosis virus* on life history and host preference of its vector, *Neohydatothrips variabilis* and evaluation of vector status of *Frankliniella tritici* and *F. fusca*. *Journal of Economic Entomology* 109 (5): 1979-1987.
5. Selig, P, Keough, S, Nalam, V and **Nachappa, P.** 2016. Jasmonate-dependent plant defenses mediate soybean thrips and soybean aphid performance on soybean. *Arthropod-Plant Interactions* 10 (4): 273-282. DOI 10.1007/s11829-016-9437-9.
6. **Nachappa, P.**, Culkin, C., Saya, P.M., Han, J., and Nalam, V. 2016. Water Stress modulates soybean aphid performance, feeding behavior, and virus transmission in soybean. *Frontiers in Plant Science* 7:552. doi: 10.3389/fpls.2016.00552.
7. **Nachappa, P.**, Levy, J., Pierson, E., and Tamborindéguy, C. 2014. Bacterial plant pathogen titer in its insect vector correlates with reduced population growth rate of the vector. *Journal of Invertebrate Pathology* 115:55-61.
8. **Nachappa, P.**, Margolies, D. C., Nechols, J. R., Whitfield, A. E., and Rotenberg, D. 2013. *Tomato spotted wilt virus* benefits a non-vector arthropod, *Tetranychus urticae*, by modulating different plant responses in tomato. *PLoS ONE* 8(9): e75909
9. Nalam, V. J., Shah, J., and **Nachappa, P.** 2013. Emerging role of roots in plant responses to aboveground insect herbivory. Invited review. *Insect Science* 20: 286-296
10. Hout, O. B., **Nachappa, P.**, and Tamborindéguy, C. 2013. The evolutionary strategies of plant defense have a dynamic impact on the adaptations and interactions of vectors and pathogens. Invited review. *Insect Science* 20: 297-306.

11. **Nachappa, P.**, Levy, J., and Tamborindeguy, C. 2012. Transcriptome analyses of *Bactericera cockerelli* adults in response to “*Candidatus Liberibacter solanacearum*” infection. *Molecular Genetics and Genomics* 287 (10): 803-817.
12. **Nachappa, P.**, Shapiro, A. A., and Tamborindeguy, C. 2012. Effect of “*Candidatus Liberibacter solanacearum*” on the fitness of its vector, *Bactericera cockerelli* (Hemiptera: Triozidae). *Phytopathology* 102 (1): 41-46.
13. **Nachappa, P.**, Levy, J., Pierson, E., and Tamborindeguy, C. 2011. Diversity of endosymbionts in the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae) vector of zebra chip disease. *Current Microbiology* 62:1510-1520.
14. **Nachappa, P.**, Margolies, D.C., Nechols, J.R., and Campbell, J.F. 2011. Variation in predator foraging behavior changes predator-prey spatio-temporal dynamics. *Functional Ecology* 25: 1309-1317.
15. Medina, R., **Nachappa, P.**, and Tamborindeguy, C. 2011. Differences in bacterial diversity of Host-associated populations of *Phylloxera notabilis* Pergande (Hemiptera: Aphididae) in pecan and water hickory. *Journal of Evolutionary Biology* 24 (4):761-771.
16. **Nachappa, P.**, Margolies, D.C., Nechols, J.R., and Morgan, T.J. 2010. Genetic variation of foraging behaviors and associated life histories in a predatory mite. *Evolutionary Ecology* 24: 631-655.
17. **Nachappa, P.**, Margolies, D.C., and Nechols, J.R. 2006. Resource-dependent giving-up time of the predatory mite, *Phytoseiulus persimilis*. *Journal of Insect Behavior* 19: 741-52.
18. **Nachappa, P.**, Margolies, D.C., Nechols, J.R., and Loughin, T. 2006. *Phytoseiulus persimilis* response to herbivore-induced plant volatiles as a function of mite-days. *Experimental Applied Acarology* 40: 231-239.
19. **Nachappa, P.**, Guillebeau, L. P., Braman, S.K., and All, J. N. 2006. Susceptibility of twolined spittlebug, *Prosapia bicincta* (Say) (Hemiptera: Cercopidae) life stages to entomophagous arthropods in turfgrass. *Journal of Economic Entomology* 99(5): 1711-1716.
20. **Nachappa, P.**, Braman, S.K., Guillebeau, L. P., and All, J. N. 2006. Functional response of the tiger beetle, *Megacephala carolina carolina* (Coleoptera: Cicindelidae) on twolined spittlebug (Hemiptera: Cercopidae) and fall armyworm (Lepidoptera: Noctuidae). *Journal of Economic Entomology* 99(5): 1583-1589.
21. **Nachappa, P.**, Braman, S.K., and Guillebeau, L. P. 2006. Exclusive use of hollies as male-specific hosts of twolined spittlebug (Hemiptera: Cercopidae). *Journal of Entomological Science* 41: 261-263.

Book Chapters

22. Nalam, V.J., and **Nachappa, P.** The role of roots in plant defense responses. In Ajit Varma and Asuncion Morte (eds), *Root Engineering by Springer Editorial* (Heidelberg, Germany).
23. Margolies, D.C., **Nachappa, P.**, and Nechols, J.R. 2007. Breeding for and maintaining foraging ability in the predatory mite, *Phytoseiulus persimilis*. Pp. 87-90 In J.C. van Lenteren, P. DeClercq and M.W. Johnson (eds.), *Proceedings of the 11th Meeting of the Working Group Arthropod Mass Rearing and Quality Control, 28 October – 1November 2007, Montreal, Canada. Bulletin IOBC Global No. 3.*

Non-Peer Reviewed Publications

1. **Nachappa, P.** 2016. Soybean Vein Necrosis Virus. Pp 67-68. *In* A farmer's guide to soybean diseases. 2016. Mueller, D., Wise, K., Sisson, A., Smith, D., Sikora, E., Bradley, C., and Robertson, A (EDS). American Phytopathological Society Press. St. Paul, Minnesota, MN.
2. Byamukama, E., Dorrance, A, Jardine, D., Malvick, D., Markell, S., **Nachappa, P.**, Sisson, A., and Sweets. L. 2014. Soybean Vein Necrosis Virus. *In* Soybean Disease Management.
3. Tamborindeguy, C., and **Nachappa, P.** 2011. Investigating Effects of "*Candidatus Liberibacter Solanacearum*" Infection on Psyllid Populations. Proceedings of Annual Zebra Chip Reporting Session, San Antonio, TX.
4. Tamborindeguy, C., **Nachappa, P.**, and Shapiro, A. 2010. Consequences of "*Candidatus Liberibacter solanacearum*" on Psyllid Populations. Proceedings of Annual Zebra Chip Reporting Session, Dallas, TX. Pp 164-168.
5. Margolies, D.C., Nechols, J.R., and **Nachappa, P.** 2007. A framework to assess predator response to herbivore-induced volatiles. *Journal of Insect Science* 7:16 (abstract of presentation at the XIV International Entomophagous Insects Workshop, 2006, Newark DE).
6. Atilas, J, H., Guillebeau, L. P., and **Nachappa, P.** 2004. "Keeping pests out of my house: mosquitoes are biting my baby". Bulletin # HACE-E-58. Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, The University of Georgia College of Agricultural and Environmental Sciences and the U.S. Department of Agriculture cooperating.
7. Guillebeau, L.P., Atilas, J.H., and **Nachappa, P.** 2004. "Keeping pests out of my house: fleas are biting my pet". Bulletin # HACE-E-59. Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, The University of Georgia College of Agricultural and Environmental Sciences and the U.S. Department of Agriculture.

Competitive Grants

- 2019 Developing Innovative IPM strategies for Hemp Russet Mite Control in Industrial Hemp. National Institute of Food and Agriculture-Agriculture and Food Research Initiative Competitive Grants Program (NIFA-AFRI) \$299,977. Whitney Cranshaw and **Punya Nachappa (CO-PI)** (Pending).
Disrupting BCTV Transmission by Targeting the Molecular Interaction between the Virus and Its Insect Vector. Western Sugar Cooperative Research Committee (\$17,500). **Nachappa (PI)** and Franck Dayan.
- 2018 Integrated approach for management of Mexican bean beetle and Western corn rootworm in conventional and organic dry bean (*Phaseolus* sp.) production. Colorado Dry Bean Administrative Committee (\$15,000). **Punya Nachappa (PI)**, Paul Ode, Mark Uchanski, and Whitney Cranshaw.
Identification and characterization of new sources genetic resistance to Wheat curl mite and Wheat streak mosaic virus. Colorado Wheat Research Foundation (\$21,496). **Nachappa (PI)**, Tessa Albrecht and Stephen Pearce.
Characterization of genetic resistance to Wheat stem sawfly. Colorado Wheat Research

- Foundation (\$7,240). **Nachappa (PI)**, Frank Peairs and Scott Haley.
- 2017 Effects of drought, flooding, and insect herbivory on soybean plant growth and yield (\$20,000). Indiana Soybean Alliance. **Punya Nachappa (PI)**.
Factors determining vector competence in three thrips species ability to transmit *Soybean vein necrosis virus* (\$8,000, summer) Purdue Research Foundation grant. **Punya Nachappa (PI)**.
Soybean Entomology in the North Central Region: Management and Outreach for New and Existing Pests. North Central Soybean Research Program (\$30,000). **Punya Nachappa (CO-PI)**.
Vector competency of thrips species to transmit *Soybean vein necrosis virus*. IPFW Undergraduate Summer Research Support (\$1000) Tyler Shuman and **Punya Nachappa (CO-PI)**
- 2015 Analysis of vector competence in potential thrips vector species to transmit *Soybean vein necrosis virus*. Indiana Academy of Sciences (\$2119) Jinlong Han and **Punya Nachappa (CO-PI)**.
Evaluating vector competencies and life histories of thrips vectors of SVNV. IPFW Undergraduate Summer Research Support (\$1000) Andrea Myers and **Punya Nachappa**
- 2014 Surveying Indiana soybean for *Soybean vein necrosis virus* and evaluating new management practices. Indiana Soybean Alliance (\$ 29,868). **Punya Nachappa (PI)** and Christian Krupke.
- 2013 Understanding vector efficiencies and life histories of potential thrips vectors of *Soybean Vein Necrosis Associated Virus*. National Institute of Food and Agriculture-Agriculture and Food Research Initiative Competitive Grants Program (NIFA-AFRI) \$149,995. **Punya Nachappa (PI)**.
Dissecting the ecological and molecular interaction between the plant pathogen, “*Candidatus Liberibacter solanacearum*” and the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae). NIFA-AFRI (\$10,000). Sub-award from Texas A & M to IPFW. **Punya Nachappa (Co-PI)**.
Surveying Indiana soybean for *Soybean vein necrosis associated virus* and evaluating new management practices. Indiana Soybean Alliance (\$ 29,968). **Punya Nachappa (PI)** and Christian Krupke.
Dissecting the ecological and molecular mechanisms underlying the interaction between soybean plant, soybean aphid, and soybean mosaic virus. Indiana Academy of Sciences (\$2970) Chris Culkin (MS student) and **Punya Nachappa**
- 2012 Activation of soybean plant defense signaling pathways in response to soybean aphids (*Aphis glycines* Matsumura) and *Soybean mosaic virus*. IPFW Undergraduate Summer Research Support (\$1000) Erina Sarker and **Punya Nachappa (CO-PI)**. Had to decline.
- 2012 Efficiency of salicylate and jasmonate signaling elicitors in conferring acquired systemic resistance against soybean aphid and *Soybean mosaic virus* (\$8,000) Purdue Research Foundation grant. **Punya Nachappa (PI)**.
- 2012 Dissecting the ecological and molecular interaction between the plant pathogen, “*Candidatus Liberibacter solanacearum*” and the potato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae). NIFA-AFRI (\$388,000). Cecilia Tamborindeguy and **Punya Nachappa (Co-PI)**.
- 2011 Investigating the role of endosymbionts in different populations of the potato psyllid (*Bactericera cockerelli*), vector of zebra chip disease in relevance to ecologically-

- important traits. Texas A&M- Consejo Nacional de Ciencia y Tecnología (CONACYT) Collaborative Research Grant Program (\$ 50,000). Cecilia Tamborinduguy, **Punya Nachappa (Co-PI)** and Norma Elena Leyva.
- 2008 Host preference and performance of vector and non-vector arthropods on tomato spotted wilt virus infected plants. NSF-Ecological Genomics Institute Seed Grant (\$ 75,000). David Margolies, **Punya Nachappa (Co-PI)**, James Nechols, Dorith Rotenberg, Anna Whitfield and Leslie Campbell.
- 2007 Testing potential crosstalk between the salicylate and jasmonate signaling pathways and its effects on trophic-level interactions. Sigma Xi Grants in Aid of Research (\$500). **Punya Nachappa (PI)**.
Testing potential crosstalk between the salicylate and jasmonate signaling pathways and its effects on trophic-level interactions. Kansas Academy of Sciences Graduate Research Grant (\$500). **Punya Nachappa (PI)**.
- 2006 Can improved predator foraging efficiency contribute to a more efficient biological control program for twospotted spider mites on tomatoes? USDA North Central Region IPM Grant (\$77,028). David Margolies, James Nechols and **Punya Nachappa (Co-PI)**.

Presentations

Invited Presentations

1. **Nachappa, P.**, Keough, S., Han, J. 2018. Ecological and molecular mechanisms underlying Soybean vein necrosis virus-thrips interaction. North Central Branch Entomological Society of America Meeting. Madison, WI.
2. **Nachappa, P.**, Culkin, C., Han, J., Saya P.M. II and Nalam, V.J. 2016. Plant nutrient status and defense signaling modulate the interaction between water stress, aphids and virus transmission in soybean. Plant Pathogens and Their Insect Vectors Symposium. North Central Branch Entomological Society of America Meeting. Cleveland, OH
3. **Nachappa, P.**, Keough, S., Han, J., Lagos, D., and Voegtlin, D. 2016. Factors affecting population dynamics of thrips vectors of Soybean vein necrosis virus in soybean. Research Update from the North Central Soybean Research Program (NCSRP) Symposium. North Central Branch Entomological Society of America Meeting. Cleveland, OH.
4. **Nachappa, P.**, Culkin, C., and Nalam, V.J. 2014. Plant-mediated effects of drought stress on soybean aphids and virus infection. Basic Approaches to Grand Challenges: Applying Insect Ecology to Improve Agricultural Sustainability and Food Security Symposium. Annual Entomological Society of America Meeting, Portland, OR.
5. **Nachappa, P.** 2014. Dissecting the ecological and molecular mechanisms underlying the interaction between plants, pathogens and insect vectors. Department of Entomology, University of Wisconsin-Madison, Fall Seminar Series.
6. **Nachappa, P.** 2014. Dissecting the ecological and molecular mechanisms underlying the interaction between plants, pathogens and insect vectors. Department of Entomology, University of Georgia, Athens, GA, Fall Seminar Series Alumni speaker.
7. **Nachappa, P.** 2014. Ecology and Management of Insect Vector-Borne Diseases. Department of Plant Sciences, South Dakota State University, Sioux Falls, SD, Spring Seminar Series.
8. **Nachappa, P.** 2013. Dissecting the ecological and molecular interactions between plants, pathogens, and insect vectors. Department of Entomology, Purdue University, West Lafayette, IN, Fall Seminar Series.

9. **Nachappa, P.** 2012. Dissecting the ecological and molecular interactions between the plants, pathogens, and insect vectors. Department of Biology, University of St. Francis, Fort Wayne, IN. Fall Seminar Series.

Contributed Oral Presentations

International and National Meetings

1. Angelella, G., **Nachappa, P.**, Nalam, V.J., White, J. and Kaplan, I. 2015. Do facultative endosymbionts alter stylet-borne virus transmission by aphids? Annual Entomological Society of America Meeting, Portland, OR
2. Tamborindéguy, C., **Nachappa, P.**, Ibanez, F., and Levy, J. 2013. Psyllids or associated microbes, who is in charge? Annual Entomological Society of America Meeting, Austin, TX
3. Medina, R.F., Dickey, A., **Nachappa, P.**, and Tamborindéguy, C. 2012. Bacterial symbionts mediating arthropod evolutionary ecology: from local interactions to global diversity. Annual Entomological Society of America Meeting, Knoxville, TN.
4. Medina, R., **Nachappa, P.**, and Tamborindéguy, C. 2010. Bacterial diversity of host associated populations of *Phylloxera notabilis* Pergande (Hemiptera: Aphididae) in pecan and water hickory. Annual Entomological Society of America Meeting, San Diego, CA.
5. Tamborindéguy, C., **Nachappa, P.**, and Shapiro, A. 2010. Shedding light on psyllid-bacteria interaction. Ecological Society of America National Meeting, Pittsburgh, PA.
6. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2007. How do predator foraging traits affect the predator-prey interaction and biological control of twospotted spider mites? Annual ESA Meeting, San Diego, CA.
7. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2007. Selection on the foraging ability of a predatory mite. Current advances in acarology. Annual ESA Meeting, San Diego, CA.
8. Margolies, D.C., **Nachappa, P.**, and Nechols, J.R. 2007. Breeding for and maintaining foraging ability in the predatory mite, *Phytoseiulus persimilis*. 11th Meeting of the Working Group Arthropod Mass Rearing and Quality Control, Montreal, Canada.
9. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2006. Can genetic selection improve specific foraging traits of the predatory mite, *Phytoseiulus persimilis*? NCB-ESA Meeting, Winnipeg, Canada.
10. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2006. Can increased predator foraging efficiency contribute to a more efficient biological control program for twospotted spider mites in greenhouses? Annual ESA Meeting, Indianapolis, IN.
11. Margolies, D.C., **Nachappa, P.**, and Nechols, J.R. 2006. An ecological and evolutionary framework to assess predator response to herbivore-induced plant volatiles. XIIth International Congress of Acarology, Amsterdam, Netherlands.
12. Margolies, D.C., **Nachappa, P.**, and Nechols, J.R. 2006. A framework to assess predator response to herbivore-induced plant volatiles. XIV International Entomophagous Insects Workshop, Newark, DE.
13. **Nachappa, P.**, Braman, K. S and Guillebeau, L. P. 2004. Predator-prey dynamics of twolined spittlebug (*Prosapia bicincta*) (Say) (Hemiptera: Cercopidae) in turfgrass. Annual ESA Meeting, Salt Lake City, UT.
14. **Nachappa, P.** and Guillebeau, L.P. 2003. Identification of predators of the twolined spittlebug (*Prosapia bicincta*) (Say), an economic pest on turf grasses and ornamental hollies. Annual ESA Meeting, Cincinnati, OH.

Regional Meetings

1. Keough, S., Shuman T and **Nachappa, P.** 2015. Comparison of life history traits of potential thrips vectors of Soybean Vein Necrosis Virus and the effect of virus infection on thrips vectors. Indiana Academy of Sciences Annual Meeting, Indianapolis, IN.
2. Culkin, C., Nalam, V., and **Nachappa, P.** 2014. Drought stress in soybean: Impacts on soybean aphid populations (*Aphis glycines* Matsumura) and Soybean mosaic virus infection. Indiana Academy of Sciences Annual Meeting, Indianapolis, IN.
3. Tamborindéguy, C., and **Nachappa, P.** 2011. Investigating effects of “*Candidatus Liberibacter solanacearum*” infection on psyllid populations. Zebra Chip Annual Reporting Session. San Antonio, TX.
4. Tamborindéguy, C., **Nachappa, P.**, and Shapiro, A. A. 2010. Consequences of “*Candidatus Liberibacter solanacearum*” on Psyllid Populations. Zebra Chip Annual Reporting Session. Dallas, TX.
5. Rotenberg, D., **Nachappa, P.**, Vargas, I. B. and Whitfield, A. 2010. Dissecting the molecular interplay between plant viruses and their arthropod vectors. Annual Ecological Genomics Symposium. Kansas City, MO.
6. **Nachappa, P.**, Margolies, D. C., Nechols, J. R., Whitfield, A., and Rotenberg, D. 2009. Host preference and fecundity of vector and non-vector arthropods on Tomato spotted wilt virus infected plants. Ecological Genomics Symposium Research Forum. Kansas State University. Manhattan, KS.
7. **Nachappa, P** and Guillebeau, L.P. 2002. Attitudes of homeowners towards pests and pesticide usage. Annual meeting of the Georgia Entomological Society, Jekyll Island, GA, October 2003.

*Poster presentations**International and National Meetings*

1. Han, J., Nalam, V.J., Yu-Ivorine, and **Nachappa, P.** 2016. Sequential infection of Soybean vein necrosis virus in the alimentary canal and salivary glands of its vector, soybean thrips (*Neohydatothrips variabilis*). International Congress of Entomology, Orlando, FL. **First Place winner, President Prize.**
2. Han, J., Keough, S, Shuman T., Milholland and **Nachappa, P.** 2015. Analysis of competence of thrips species to transmit *Soybean vein necrosis virus* and impact of the virus on thrips vector biology and behavior. Annual Entomological Society of America Meeting, Minneapolis, MN.
3. Culkin, C., Nalam, V.J., and **Nachappa, P.** 2014. Physiological and Molecular Analysis of Drought Stress in Soybean: Impacts on Soybean Aphid Populations and Virus Infection. Annual Entomological Society of America Meeting, Portland, OR. **First Place winner, President Prize. ESA Conference, Portland, OR.**
4. Saya, P., Culkin, C., **Nachappa, P.**, and Nalam, V. 2014. Analysis of soybean aphid feeding behavior on drought-stressed plants using electrical penetration graphs. Annual Entomological Society of America Meeting, Portland, OR.
5. **Nachappa, P.** Culkin, C., Saya, P.M., and Nalam, V.J. 2014. Physiological and Molecular Analysis of Drought Stress in Soybean: Impacts on Soybean Aphid Populations and Virus Infection. Second International Hemiptera-Plant Interactions Symposium Riverside, California.

6. Culkin, C., Nalam, V., and **Nachappa, P.** 2013. Drought stress in soybean: Impacts on soybean aphid populations (*Aphis glycines* Matsumura) and *Soybean mosaic virus* infection. Annual Entomological Society of America Meeting, Austin, TX. **First Place winner, President Prize. ESA Conference**, Austin, TX.

Regional Meetings

1. Han, J., Keough, S, Shuman T., Milholland and **Nachappa, P.** 2016. Accumulation and transmission of *Soybean vein necrosis virus* by three thrips species. Annual Indiana Academy of Sciences meeting, Indianapolis, IN.
2. Keough, S., Danels, L., Culkin, C., Nalam, V., and **Nachappa, P.** 2014. Contrasting Plant Defense Responses against Insect Vectors from Two Feeding Guilds. Indiana Academy of Sciences Annual Meeting, Indianapolis, IN.
3. **Nachappa, P.**, Margolies, D. C., Nechols, J. R., Whitfield A. E., and Rotenberg, D. 2009. Plant-mediated interactions between *Tomato spotted wilt virus* and its insect vector, *Frankliniella occidentalis*, and a non-vector arthropod, *Tetranychus urticae*. Annual Ecological Genomics Symposium. Kansas City, MO.
4. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2006. Influence of host-plant volatiles on prey-finding by the predatory mite, *Phytoseiulus persimilis*. NCB-ESA meeting, Bloomington, IL.
5. **Nachappa, P.** and Guillebeau, L.P. 2004. Identification of natural enemies of the twolined spittlebug (*Prosapia bicincta*) (Say), an economic pest on turf grasses and ornamentals. Southeastern Branch-ESA Meeting, Charleston, SC.
6. **Nachappa, P.**, Levy, J., Pierson, B., and Tamborindegy, C. 2010 Diversity of endosymbionts in two populations of potato/tomato psyllid, *Bactericera cockerelli* (Hemiptera: Triozidae). Annual ESA Meeting, San Diego, CA.
7. Shapiro, A., **Nachappa, P.**, and Tamborindegy, C. 2010. The effects of *Ca. Liberibacter psyllaerous* on the performance of its insect vector, *Bactericera cockerelli* (Sulc) (Hemiptera: Triozidae). Annual ESA Meeting, San Diego, CA.
8. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2006. *Phytoseiulus persimilis* response to herbivore-induced plant volatiles as a function of mite-days. XIIth International Congress of Acarology, Amsterdam, Netherlands.
9. **Nachappa, P.**, Margolies, D. C., and Nechols, J. R. 2005. Resource-dependent leaving rate of the predatory mite, *Phytoseiulus persimilis*. Annual ESA meeting, Ft Lauderdale, FL.
10. Guillebeau, L. P. and **Nachappa, P.** 2003. Collaborating with public libraries to introduce the public to Integrated Pest Management. Fourth National IPM Symposium/Workshop. North Carolina State University, Raleigh, NC.

Symposium Organizer

Punya Nachappa and Adrianna Szczepaniec co-organized a symposium titled “Are We Stressed Enough Yet? Interdisciplinary Partnerships to Evaluate the Consequences of Plant Abiotic and Biotic Stresses at the 63rd Annual Entomological Society of America Meeting, November 15-18, 2015 in Minneapolis, Minnesota. The symposium featured 12 research presentations.

Professional Memberships

2002-current Entomological Society of America

Teaching Experience

Colorado State University (2019-current)

Instructor, Insect Biotechnology (3 credits: lecture)

Purdue University Fort Wayne (2012-2018)

Instructor, Biology of Plant and Animal Disease Vectors (3 credits: lecture), Graduate course

Instructor, General Entomology (3 credits: lecture & lab), Undergraduate course

Instructor, Principles of Structure and Function (3 credits: lecture & lab), Biology majors only

Instructor, Introduction to Ag and Purdue/ Careers in Veterinary medicine, Transfer students only (1credit)

Instructor, Senior Seminar (1 credit)

Texas A & M University

2011 Co-Instructor, Insect Biotechnology, Undergraduate class (3 credits: lecture and lab)

Invited Lectures (2), Plant-pathogen-vector interaction, Graduate class

2010 Invited Lecture, Integrative Insect Biology: From Genes to Organisms to Populations, Graduate class

Kansas State University

2007 Teaching Assistant, Horticultural Entomology

University of Georgia

2004 Invited Lecture, Turf grass Pest Management

2002-03 Teaching Assistant, Insects and Environment

Mentoring

Colorado State University

Post-doctoral research associates

Jan 2019-current Dr. Priyanka Mittapelly

Graduate Advisees

Jan 2019-current Jacob Pitt, M.S. student

Undergraduate Students

Fall 2018-current Billy Poon, Brooke Cabin

Purdue University Fort Wayne

Graduate Advisees

August 2017- estimated graduation August 2019

August 2017- estimated graduation August 2019

August 2014- December 2016

August 2013-graduated August 2015

Geral'n McGee, MS student

Jonathan Danielson, MS student

Jinlong Han, MS student (PhD student, North Carolina State University)

Stacy Keough, MS student (Research Technician, Element Testing, Warsaw, IN)

August 2012- graduated December 2014

Chris Culkin, MS student (Research Scientist, Agdia Inc., Elkhart, IN)

MS Thesis Committee Member

2016-current Nolan Anderson, Purdue University, West Lafayette

2016-2018 Cecilia Smith, IPFW

2015-2017 Hallel Praisio, IPFW

2015-2017 Andrea Myers, IPFW

2014-2016 Alicia Conrad, IPFW

2013-2015 Jacob Janssent, IPFW

Undergraduate Students

Fall 2017 Sarah Moh, Emma Zolman, Laura Hoffman, Asif Mortuza

Fall 2016-Spring 2017 Geral'n McGee, Sarah Moh, Emma Zolman, Laura Hoffman, Asif Mortuza

Summer 2016 Geral'n McGee, Sarah Moh, Emma Zolman, Laura Hoffman, Jessica Namara

Spring 2015-Spring 2016 Tyler Shuman, Kedric Milholland, Allison Amsutz, Eugenia Papadakis

Dianne Nigaglioni and Carolina Hernandez exchange students from University of Puerto Rico at Cayey from the National Student Exchange Program.

Spring 2014-Fall 2014 Jonathan Danielson, Lee Danels, Dominic Snowball, Patrick Selig

Summer 2013-Fall 2013 Adam Lennon, Min Jung Kim (Currently at University of Minnesota Veterinary School, St. Paul, MN), Jonathan Danielson, Lee Danels, Sameha Albayyari

Spring 2013 Erina Sarker, Damini Handa, Priti Pal

2012 Jenna Davidson (Currently PhD student in University of Notre Dame, South Bend, IN; Honors project supervisor), Heidi Askren

High School Student

Summer 2017-current Chengyu Bi, Homestead High School (High School Intern Program)

Summer 2013 Sanjana Sai, Homestead High School

Texas A & M University

2011 Arima Claypool, NSF-Research Experience for Undergraduates, Texas A & M University, June-August, University of North Carolina, Chapel Hill, NC.

2010 Ana Shapiro, NSF-Research Experience for Undergraduates, Texas A & M University, June-August, Colby College, Waterville, ME.

Second place winner, Undergraduate student poster competition Annual ESA meeting 2010, San Diego, CA.

Kansas State University

2008 Clayton Sublett, Austin College, Sherman, TX

2007 Ian Smith, Minorities in Agriculture, Natural Resources, and Related Sciences, KSU, June-August, Purdue University, West Lafayette, IN.

Professional Service

Peer- reviewed for the Following Journals

International Journal of Molecular Sciences, Journal of Economic Entomology, Frontiers in Plant Science, Arthropod-Plant Interactions, Journal of Pest Science, Pest Management Science, Agronomy for Sustainable Development, Biological Control, Phytoparasitica, Pathogens, Insect Science, International Journal of Pest Management, Environmental Entomology, Environmental microbiology and Environmental microbiology, Insect Molecular Biology, International Journal of Molecular Sciences, PLOS ONE, Biological Journal of Linnaean Society, Experimental and Applied Acarology, Insectes Sociaux

Peer - reviewed for the Following Funding Agencies

2018

USDA NIFA-AFRI Citrus Disease Research and Extension program (CDRE) Virtual Panel

2017

USDA NIFA-AFRI Citrus Disease Research and Extension program (CDRE) Virtual merit reviewer

U.S.-Israel Binational Agriculture and Research Development (BARD) program-Ad-hoc reviewer.

2016

U.S.-Israel Binational Science Foundation Program--Ad-hoc reviewer.

USDA- National Institute of Food and Agriculture-Agriculture and Food Research Initiative Competitive Grants Program Conference Grant Ad-hoc reviewer

2014

Ohio State University Ohio Agricultural Research and Development Center (OARDC) Seed Grants-Ad-hoc reviewer.

USDA- National Institute of Food and Agriculture-Agriculture and Food Research Initiative Competitive Grants Program Sub-Organismal Panel Member.

U.S.-Israel Binational Agriculture and Research Development program-Ad-hoc reviewer.

2013

China-Israel Research Program-Ad-hoc reviewer.

2012

U.S.-Israel BARD program- Ad-hoc reviewer.

Profiled At

2016

Featured in Annual Report for the Executive Vice President for Research and Partnerships, Purdue University, West Lafayette

Media interview to local FOX NEWS on honey bee population decline

2015

Featured in Don Difference campaign

Featured in the Purdue Today newsletter- Faculty Profiles In the Spotlight

2014

Media interview to WANE-TV 15 regarding “effect of the severe winter on insect pests”.

Media interview to Fort Wayne Business Weekly about Soybean Vein Necrosis Virus

2013

Research program was featured in YouTube video produced by Purdue Pest Management Program- <http://www.youtube.com/watch?v=Dey6J2Rj2Pk>