

**Sandipa Gautam, Ph.D.**  
**Assistant Research Entomologist**  
**Dept. of Entomology, UC Riverside**  
Stationed at: Kearney Agricultural REC, 9240 S Riverbend Ave., Parlier, CA, 93648  
Office: 559-646-6584; Email: [sangautam@ucanr.edu](mailto:sangautam@ucanr.edu)

---

### **EDUCATION**

<b>Ph.D. in Entomology</b>	Oklahoma State University (OSU), Stillwater, OK	2013
<b>M.Sc. in Entomology</b>	Oklahoma State University (OSU), Stillwater, OK	2010
<b>B.Sc. in Agriculture</b>	Tribhuvan University, Chitwan, Nepal	2007

### **PROFESSIONAL EXPERIENCE**

<b>Assistant Cooperative Extension IPM Advisor</b> , LREC, UCANR	07/2021- present
<b>Assistant Research Entomologist</b> , Dept. of Entomology, UC Riverside	02/2016–07/2021
<b>Postdoctoral Research Associate</b> , OSU, Stillwater, OK	12/2013– 01/2016
<b>Ph.D. Graduate Research Assistant</b> , OSU, Stillwater, OK	01/2011–12/2013
<b>MS Graduate Research Assistant</b> , OSU, Stillwater, OK	01/2009–12/2010

### **MAJOR SKILLS**

**Research:** 5+ years of experience working with citrus pests in the San Joaquin Valley; 11 years' experience identifying research questions; designing and conducting research to investigate biology, ecology and behavior of arthropods (insects and mites), fumigation research, pesticide screening, insect bioassays (propylene oxide, phosphine, sulfuryl fluoride, methyl bromide, and deltamethrin), and insecticide resistance management.

**Data Analysis and Interpretation:** SAS, Statgraphics, Table Curve 2D and Table Curve 3D, Sigma Plot, log-dose Probit, Microsoft Office

**Communication:** Prepare and publish journal articles, industry magazine articles, proceedings paper; present findings at regional, national, and international scientific and grower meetings

**Grant writing:** Prepare and submit research grants, manage program budget and workforce

**License:** Qualified Applicator Certificate license, CA driver's license

**Leadership:** 4+ years of experience leading a research lab, Entomological Society of America volunteer

**Administrative:** Write job descriptions, hire and train employees, review and approve timecards, oversee equipment purchase

### **RESEARCH ACCOMPLISHMENTS**

#### **Peer Reviewed Publications**

- Gautam, S.G.**, Y. Ouyang, P. Gu, and E. E. Grafton-Cardwell. 2021. Food ecology and food suitability of *Tarsonemus* spp. (Acari: Tarsonemidae). *Environmental Entomology*. doi: 10.1093/ee/nvab013
- Gautam S. G.**, G. P. Opit, C. Konemann, K. Shakya, and E. Hosoda. 2020. Phosphine resistance in saw-toothed grain beetle, *Oryzaephilus surinamensis* (Coleoptera: Silvanidae) in the United States. *Journal of Stored Product Research* doi.org/10.1016/j.jspr.2020.101690
- S. G. Gautam**, Y. Ouyang, P. Gu, and E. E. Grafton-Cardwell. 2018. Food suitability and population dynamics of *Lorryia formosa* (Acari: Tydeidae). *Environmental Entomology*. 47:511–518.
- Paudyal, S., G. P. Opit, F. H. Arthur, G. V. Bingham, M. E. Payton, **S. G. Gautam** and B. Noden 2017. Effectiveness of the Zerofly® storage bag fabric against stored-product insects. *Journal of Stored Products Research*, 73: 87-97.

5. Konemann, C.E., Z. Hubhachen, G. P. Opit, **S. Gautam** and N. S. Bajracharya. 2017. Phosphine resistance in *Cryptolestes ferrugineus* (Coleoptera: Laemophloeidae) collected from grain storage facilities in Oklahoma, USA. *Journal of Economic Entomology*, 110: 1377-1383.
6. **Gautam, S. G.**, G. P. Opit, and E. Hosoda. 2016. Phosphine Resistance in Adult and Immature Life Stages of *Tribolium castaneum* (Coleoptera: Tenebrionidae) and *Plodia interpunctella* (Lepidoptera: Pyralidae) Populations in California. *Journal of Economic Entomology*  
DOI: <http://dx.doi.org/10.1093/jee/tow221>
7. Paudyal, S., G. P. Opit, F. H. Arthur, G. V. Bingham, and **S. G. Gautam**. 2016. Contact Toxicity of Deltamethrin Against *Tribolium castaneum* (Coleoptera: Tenebrionidae), *Sitophilus oryzae* (Coleoptera: Curculionidae), and *Rhyzopertha dominica* (Coleoptera: Bostrichidae) Adults. *Journal of Economic Entomology*. 109: 1936–1942.
8. Bajracharya, N. S., G. P. Opit, J. Talley, **S. G. Gautam**, and M. E. Payton. 2016. Assessment of fitness effects associated with phosphine resistance in *Rhyzopertha dominica* (Coleoptera: Bostrichidae) and *Tribolium castaneum* (Coleoptera: Tenebrionidae). *African Entomology* 24: 39–49. DOI: <http://dx.doi.org/10.4001/003.024.0039>
9. **Gautam, S. G.**, G. P. Opit and K. Shakya. 2015. Population growth and development of the psocid *Liposcelis fusciceps* (Psocoptera: Liposcelididae) at constant temperatures and relative humidities. *Environmental Entomology*. DOI: 10.1093/ee/nvv148
10. G. O. Otitodun, G. P. Opit, S. I. Nwaubani, E. U. Okonkwo, and **S. G. Gautam**. 2015. Efficacy of Nigeria-derived diatomaceous earth, botanicals, and riverbed sand against *Sitophilus oryzae* (L.) (Coleoptera: Curculionidae) and *Rhyzopertha dominica* (F.) (Coleoptera: Bostrichidae) on Wheat. *African Crop Science Journal*. 23: 279–293
11. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, D. Margosan, and S. Walse. 2015. Comparative egg morphology and chorionic ultrastructure of key stored-product insect pests. *Annals of Entomological Society of America*. 108: 43–56
12. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, D. Margosan, and S. Walse. 2014. Egg morphology of key stored-product insect pests of U.S.A. *Annals of Entomological Society of America*. 107: 1–10
13. **Gautam S. G.**, G. P. Opit, K. L. Giles, and B. Adam. 2013. Weight losses and germination failure caused by psocids in different wheat varieties. *Journal of Economic Entomology* 106: 491–498
14. **Gautam, S. G.**, G. P. Opit, and K. L. Giles. 2012. Effects of constant temperatures on reproductive parameters of the psocid *Liposcelis rufa* (Psocoptera: Liposcelididae). *Entomology Ornithology Herpetology* S1:002. doi:10.4172/2161-0983.S1-002
15. Aminatou, B. A., **S. G. Gautam**, G. P. Opit, J. Talley, and K. Shakya. 2011. Population growth and development of the psocid *Liposcelis pearmani* (Psocoptera: Liposcelididae) at constant temperatures and relative humidities. *Environmental Entomology* 40: 788–796
16. **Gautam, S. G.**, G. P. Opit and K. L. Giles. 2010. Population growth and development of the psocid *Liposcelis rufa* (Psocoptera: Liposcelididae) at constant temperatures and relative humidities. *Journal of Economic Entomology* 103:1920–1928

#### **Other publications – Book chapter, Proceedings Papers, and Extension Articles**

1. G. P. Opit and **S. G. Gautam**. Biology and ecology of stored product psocids. *In* *Psocids as Global Pests of Stored Products*, CABI (submitted)
2. **Gautam S. G.**, S. Walse, and E. E. Grafton-Cardwell. Postharvest options to control *Brevipalpus californicus* flat mite. *Citrograph* (In press)
3. **Gautam S. G.** and E. E. Grafton-Cardwell. 2021. Taking a second look at export issue mites: *Lorryia formosa* and *Tarsonemus bakeri* are non-damaging to citrus. *Citrograph* 12: 64-69
4. Grafton-Cardwell, **S. Gautam**, M. Rivera, S. Garcia-Figuera, and N. McRoberts. 2020. Scientific basis for selection of preharvest insecticides applied for bulk citrus movement in California. UCANR.

[https://citrusinsider.org/wp-content/themes/citrus/files/pdf/Basis for the selection of insecticides for bulk citrus.pdf](https://citrusinsider.org/wp-content/themes/citrus/files/pdf/Basis%20for%20the%20selection%20of%20insecticides%20for%20bulk%20citrus.pdf)

5. **S. G. Gautam**, P. Gu, Y. Ouyang, and E. E. Grafton-Cardwell. 2020. *Tarsonemus bakeri* Mite Bioassay, 2020. Arthropod Management Tests, Volume 45, Issue 1, tsaa080, <https://doi.org/10.1093/amt/tsaa080>
6. Corbett, S., D. Sorenson, N. Tofangsazi, E. E. Grafton-Cardwell, **S. G. Gautam**, S. S. Walse. 2019. Fogging loads of California fresh citrus for control of Asian citrus psyllid, *Diaphorina citri*. pp. 778-783., Proceedings of the 12<sup>th</sup> International Working Conference on Stored Product Protection DOI 10.5073/jka.2018.463.169
7. Hubbachen, Z. G. Opit, **S. G. Gautam**, G. Konemann, E. Hososda. 2019. pp. 635-652. Phosphine resistance in saw-toothed grain beetle, *Oryzaephilus surinamensis* (Coleoptera: Silvanidae) in the United States. Proceedings of the 12<sup>th</sup> International Working Conference on Stored Product Protection DOI 10.5073/jka.2018.463.136
8. **S. G. Gautam**, P. Gu, Y. Ouyang, and E. E. Grafton-Cardwell. 2018. *Lorryia formosa* Mite Bioassay, 2018. Arthropod Management Tests, Volume 43, Issue 1, 2018, tsy097, <https://doi.org/10.1093/amt/tsy097>
9. **S. G. Gautam**, P. Gu, Y. Ouyang, and E. E. Grafton-Cardwell. 2018. *Brevipalpus californicus* Mite Bioassay, 2018. Arthropod Management Tests, Volume 43, Issue 1, 2018, tsy105, <https://doi.org/10.1093/amt/tsy105>
10. **Gautam, S. G.** G. P. Opit. 2015. Phosphine resistance in eggs of *Tribolium castaneum* and *Plodia interpunctella* from almond storage facilities in the Central Valley of California, pp. 41–49. Proceedings of the International Organization for Biological and Integrated Control - West Palaearctic Region Section Working Group on Integrated Protection of Stored Products, June, Zagreb, Croatia. IOBC/WPRS Bulletin, Vol 111.
11. **Gautam S. G.**, G. P. Opit, and S. Walse. 2014. Insect Eggs: are openings in stored-product insect eggs related to effectiveness of fumigants? Fumigants and Pheromones 110: 5
12. **Gautam, S. G.**, S. Walse, J. S. Tebbets, and G. P. Opit. 2013. Efficacy of propylene oxide in combination with carbon dioxide against eggs of stored-product insect pests, pp. 29. In Proceedings of the 2013 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, 4–6 Nov., San Diego, CA
13. **Gautam S. G.**, G. P. Opit, and S. Walse. 2013. Insect Eggs: why are some stored-product insect eggs difficult to kill using fumigants? Fumigants and Pheromones 105: 7
14. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. 2015. Efficacy of propylene oxide in combination with carbon dioxide against eggs of postharvest insect pests at normal atmospheric pressure, pp. 398–406. Proceedings of the 11<sup>th</sup> International Working Conference on Stored Product Protection, 24–28 Nov., Chiang Mai, Thailand
15. Konemann, C. E, G. P. Opit, **S. G. Gautam**, N. S. Bajracharya, and K. Shakya. 2015. Levels of phosphine resistance in rusty grain beetles, *Cryptolestes ferrugineus* (Stephens) (Coleoptera: Laemophloeidae), from stored wheat in Oklahoma, pp. 461–467. In: Proceedings of the 11th International Working Conference on Stored Product Protection, 24–28 Nov., Chiang Mai, Thailand
16. Opit, G. P., **S. G. Gautam**, S. Walse, and D. Margosan. 2014. Influence of egg morphology on ovicidal efficacy of fumigants, pp. 321–329. Proceedings of the International Organization for Biological and Integrated Control - West Palaearctic Region Section Working Group on Integrated Protection of Stored Products, July, Bordeaux, France. IOBC/WPRS Bulletin 82
17. Opit, G. P., **S. G. Gautam**, B. A. Aminatou, and J. E. Throne. 2010. Ecological studies of the psocids *Liposcelis brunnea*, *L. rufa*, *L. pearmani*, and *Lepinotus reticulatus*, pp: 173–179. Proceedings of the Tenth International Working Conference on Stored Product Protection, June 27 –2 July 2010, Estoril, Portugal, Julius-Kuhn-Archiv, Berlin, Germany

## INVITED PRESENTATIONS

1. **Gautam S. G.** Fuller rose beetle and California red scale biology and field management. Preseason Export Meeting, California Citrus Quality Council, September 10, 2020 (Webinar).
2. **Gautam S. G.** Bean thrips biology and postharvest management of and updates on mites. Citrus Pre-season Export Meeting, California Citrus Quality Council September 11, 2020 (Webinar)
3. **Gautam S. G.**, S. Corbett, S. Walse, and E. E. Grafton-Cardwell. Commercial fumigation of fresh bulk citrus with ethyl formate (Vapormate™). 2019 MBAO: Fumigation and Alternatives for Production, Storage and Trade Conference. Nov 11-13, 2019 San Diego.
4. **Gautam S. G.**, P. Gu, Y. Ouyang, E. E. Grafton-Cardwell, and S. Walse. Effects of transit temperature on survival and viability of citrus export concern pests. 2019 MBAO: Fumigation and Alternatives for Production, Storage and Trade Conference. Nov 11-13, 2019 San Diego.
5. **Gautam, S.** Bean thrips biology, Updates on fumigation options and mite issues. 2019 Preseason Export Meeting, California Citrus Quality Council, Visalia, October 3.
6. **Gautam, S.** Spotted wing drosophila – Biology and Management, 2019 Preseason Export Meeting, California Citrus Quality Council, Visalia, October 3.
7. **Gautam S.** and E. E. Grafton-Cardwell. Fuller rose beetle and California red scale biology and field management. 2019 Preseason Export Meeting, California Citrus Quality Council, Visalia, October 3.
8. **Gautam S. G.**, E. E. Grafton-Cardwell, Y. Ouyang, P. Gu, and S. Walse. Effects of transit temperature on survival and viability of citrus export concern pests. 2019 Annual meeting of Entomological Society of America, November 17-20, St. Louis, MO.
9. **Gautam, S. G.**, E. E. Grafton-Cardwell, and S. Walse. Insects and mites of export concern in fresh citrus – ecology, biology, significance, and management options. 103<sup>rd</sup> Annual meeting of the Pacific Branch of ESA, March 31 – April 3, San Diego, CA (Talk)
10. Gu, P., Y. Ouyang, **S. G. Gautam**, E. E. Grafton-Cardwell. Transit temperature effects on export concern pests. 103<sup>rd</sup> Annual meeting of the Pacific Branch of ESA, March 31 – April 3, San Diego, CA (Poster)
11. Ouyang, Y., P. Gu, **S. G. Gautam**, E. E. Grafton-Cardwell. Effects of Various Miticides on *Brevipalpus californicus* (Acari: Tenuipalpidae) and *Lorryia formosa* (Acari: Tydeidae). 103<sup>rd</sup> Annual meeting of the Pacific Branch of ESA, March 31 – April 3, San Diego, CA (Talk)
12. **Gautam, S. G.**, E. E. Grafton-Cardwell, and S. Walse. Research updates on postharvest management of export concern pests. 40<sup>th</sup> Annual Citrus Post Harvest Conference, April 23-24, 2019. Santa Barbara, CA.
13. **Gautam, S.G.**, N. Tofangsazi, D. Sorenson, E. E. Grafton-Cardwell, S. S. Walse. Evergreen pressurized spray for the control of Asian citrus psyllid in bulk citrus. Sixth International Research Conference on Huanglongbing, March 13-15, Riverside, CA (Talk)
14. **Gautam, S. G.** Efficacy of Propylene oxide for controlling arthropod pests in fresh citrus. 2018 MBAO: Fumigation and Alternatives for Production, Storage and Trade Conference, November 13-14, Orlando, FL (Talk)
15. Corbett S., D. Sorenson, N. Tofangsazi, E. E. Grafton-Cardwell, **S. G. Gautam**, S. S. Walse. Fogging loads of California fresh citrus for control of Asian citrus psyllid, *Diaphorina citri*. 12<sup>th</sup> International Working Conference on Stored Products Protection. October 7-11 2018, Berlin, Germany.
16. **Gautam S. G.**, E.E. Grafton-Cardwell, Y. Ouyang, P. Gu, and M. Lo. Evaluating pre and postharvest strategies to control flat mites. California Citrus Conference, October 10, 2018. Visalia, CA (Poster)
17. **Gautam S. G.**, E.E. Grafton-Cardwell, Y. Ouyang, P. Gu, and M. Lo. Transit temperature effects on export concern pests. California Citrus Conference, October 10, 2018. Visalia, CA (Poster)
18. **Gautam S. G.**, E. Grafton-Cardwell, and S. Walse. Bean thrips biology and postharvest management of and updates on mites. Citrus Pre-season Export Meeting, September 20, 2018. Visalia, CA
19. **Gautam, S. G.**, E. Grafton-Cardwell, and S. Walse. Research Updates on Postharvest Management of Bean thrips. 39<sup>th</sup> Annual Postharvest Pest Control Conference, April 17-18, 2018.

20. **Gautam S. G.**, E. Grafton-Cardwell, and S. Walse. Bean thrips biology and postharvest management of bean thrips and mites. Citrus Pre-season Export Meeting, September 14, 2017. Tulare, CA.
21. **Gautam, S. G.**, E. Grafton-Cardwell, and S. Walse. Efficacy of fumigant propylene oxide against citrus pests of export significance. 38<sup>th</sup> Annual Postharvest Pest Control Conference, April 11-12, 2017.
22. **Gautam, S. G.**, E. Grafton-Cardwell, S. Walse. Postharvest management of bean thrips. 101<sup>st</sup> Annual Meeting of the Pacific Branch of the Entomological Society of America, Portland, Oregon, April 2-5, 2017
23. **Gautam, S. G.**, E. Grafton-Cardwell, S. Walse. Postharvest Management of Asian Citrus Psyllid in bulk Citrus – Potential use postharvest fumigants, 2017 International Research Conference on Huanglongbing, March 15-17, 2017, Orlando, FL
24. **Gautam, S. G.** and G. P. Opit. Phosphine resistance in stored-product insects in California. 63<sup>rd</sup> Annual Meeting of the Entomological Society of America (ESA), Minneapolis, MN, Nov. 2015 (Talk)
25. **Gautam, S. G.** and G. P. Opit. Phosphine resistance in eggs of *Tribolium castaneum* and *Plodia interpunctella* from almond storage facilities in the Central Valley of California. The 10<sup>th</sup> Conference of IOBC/WPRS Working Group Integrated Protection of Stored Products, Zagreb, Croatia, June, 2015 (Talk)
26. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Efficacy of propylene oxide in combination with carbon dioxide against eggs of six postharvest insect pests at normal atmospheric pressure. 11<sup>th</sup> International Working Conference on Stored Product Protection, Chiang Mai, Thailand, Nov. 2014 (Talk)
27. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Resistance frequencies and levels of resistance of *Tribolium castaneum* (Herbst) and *Plodia interpunctella* (Hübner) populations in almond storage facilities in California. 62<sup>nd</sup> Annual Meeting of the Entomological Society of America (ESA), Portland, OR, Nov. 2014 (Talk)
28. **Gautam, S. G.** and G. P. Opit. Phosphine resistance in red flour beetle and Indianmeal moth populations in California almond storage facilities. 16<sup>th</sup> Food Safety and Quality Symposium, Lodi, CA, July, 2014 (Talk)
29. **Gautam, S. G.** and G. P. Opit. Phosphine resistance in red flour beetle and Indianmeal moth populations in almond storage facilities in the Central Valley of California. San Joaquin Valley Agricultural Sciences Center, USDA-ARS, Parlier, CA, July, 2014 (Talk)
30. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Efficacy of propylene oxide in combination with carbon dioxide against eggs of stored-product insect pests. 2013 Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA, Nov. 2013 (Talk)
31. **Gautam, S. G.**, G. P. Opit, D. Margosan, and S. Walse. Developing a model system to study fumigant penetration into eggs using osmium tetroxide as a model molecule. 11<sup>th</sup> International Fumigants and Pheromones Conference, Krakow, Poland, June, 2014 (Poster)
32. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Dose response relationships of five stored-product insect eggs to propylene oxide at low pressure. 11<sup>th</sup> International Fumigants and Pheromones Conference, Krakow, Poland, June, 2014 (Poster)
33. **Gautam, S. G.**, G. P. Opit, D. Margosan, and S. Walse. Differences in stored-product insect egg morphologies in relation to tolerance to fumigants. 11<sup>th</sup> International Fumigants and Pheromones Conference, Krakow, Poland, June, 2014 (Poster)

## Presentations (Submitted)

1. **Gautam S. G.**, E. Grafton-Cardwell, and S. Walse. Potential of propylene oxide (PPO) as a postharvest fumigant for controlling arthropod pests in fresh citrus. Annual meeting of the Pacific Branch of Entomological Society of America, June 10-13, 2018, Reno, NV.
2. **Gautam S. G.**, E.E. Grafton-Cardwell, Y. Ouyang, P. Gu, and M. Lo. Case studies for citrus yellow mite, *Lorryia formosa*, show that it is not a pest species. California Citrus Conference, Oct., 2017. Visalia, CA (Poster)
3. **Gautam, S. G.** and G. P. Opit. Phosphine resistance in *T. castaneum* collected from almond storage facilities in California. 63<sup>rd</sup> Annual Meeting, Southwestern Branch, ESA, Tulsa, OK, Feb. 2015 (Talk)
4. **Gautam, S. G.**, G. P. Opit, D. Margosan, and S. Walse. Investigating possible routes of fumigant penetration into eggs of *Plodia interpunctella* (Lepidoptera: Pyralidae) and *Carpophilus hemipterus* (Coleoptera: Nitidulidae) using osmium tetroxide as a model molecule. 62<sup>nd</sup> Annual Meeting, Southwestern Branch, ESA, San Antonio, TX, Feb. 2014 (Poster)
5. Opit, G. P., N. Bhattarai, **S. G. Gautam**, and S. Paudyal. Efficacy of spinosad and a combination of chlorpyrifos-methyl and deltamethrin against five pest species of psocids (Psocoptera) on Wheat. 62<sup>nd</sup> Annual Meeting, Southwestern Branch, ESA, San Antonio, TX, Feb. 2014 (Poster)
6. Opit, G. P., K. Shakya, **S. G. Gautam**, and S. Paudyal. Effects of constant temperatures and relative humidities on population growth of three morphs of *Liposcelis bostrychophila* (Psocoptera: Liposcelididae). 62<sup>nd</sup> Annual Meeting, Southwestern Branch, ESA, San Antonio, TX, Feb. 2014 (Poster)
7. **Gautam, S. G.**, G. P. Opit, D. Margosan, and S. Walse. Possible relationship between egg morphology of stored-product insect eggs and fumigant efficacy. 61<sup>st</sup> Annual Meeting, ESA, Austin, TX, Nov. 2013 (Talk)
8. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Efficacy of propylene oxide against eggs of key California stored-product insect pests. 61<sup>st</sup> Annual Meeting, ESA, Austin, TX, Nov. 2013 (Poster)
9. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Efficacy of propylene oxide against eggs of four key California stored-product insect pests. 10<sup>th</sup> Annual Graduate Research in the Biological Sciences Symposium, OSU, Stillwater, OK, Sept. 2013 (Poster)
10. **Gautam, S. G.**, G. P. Opit, J. S. Tebbets, and S. Walse. Efficacy of propylene oxide against eggs of six species of stored-product insects. 61<sup>st</sup> Annual Meeting, Southwestern Branch, ESA, Las Cruces, NM, Feb. 2013 (Poster)
11. **Gautam, S. G.**, G. P. Opit, S. Walse, and D. Margosan. Differences in egg morphology between coleopteran and lepidopteran stored-product insect pests in relation to tolerance to fumigants. 60<sup>th</sup> Annual Meeting, ESA, Knoxville, TN, Nov. 2012 (Talk)
12. **Gautam, S. G.**, G. P. Opit, and K. Shakya. Effects of constant temperatures on development of the psocid *Liposcelis fusciceps*. 60<sup>th</sup> Annual meeting, ESA, Knoxville, TN, Nov. 2012 (Poster)
13. **Gautam, S. G.**, G. P. Opit, S. Walse, and D. Margosan. Differences in egg morphology between coleopteran and lepidopteran stored-product insect pests in relation to tolerance to fumigants. XXIV International Congress of Entomology, Daegu, Korea. Aug. 2012 (Talk)
14. **Gautam, S. G.**, G. P. Opit, and K. Shakya. Population growth of psocid *Liposcelis fusciceps* at constant temperatures and relative humidities. 60<sup>th</sup> Annual Meeting, Southwestern Branch, ESA, Little Rock, AK, Mar. 2012 (Poster)
15. **Gautam, S. G.**, G. P. Opit, S. Walse, and D. Margosan. Differences between the external morphology of dried fruit beetle and navel orangeworm eggs. 8<sup>th</sup> Annual Graduate Research in the Biological Sciences Symposium, OSU, Stillwater, OK, Sept. 2011 (Talk)
16. **Gautam, S. G.**, G. P. Opit, K. L. Giles, and B. Adam. Weight loss and germination failure caused by psocids in wheat. 59<sup>th</sup> Annual Meeting, Southwestern Branch, ESA, Amarillo, TX, Mar. 2011 (Talk)
17. **Gautam, S. G.**, G. P. Opit, and S. Walse. Differences between the external morphology of dried fruit beetle and navel orangeworm eggs. 59<sup>th</sup> Annual Meeting, ESA, Reno, NV, Nov. 2011 (Poster)

18. **Gautam, S. G.**, G. P. Opit, and K. L. Giles. Reproductive parameters of the psocid *Liposcelis rufa* Broadhead at constant temperatures, 22<sup>nd</sup> Annual OSU Research Symposium and Research Scholar Conference, OSU, Stillwater, OK, Feb. 2011 (Poster)
19. Aminatou, B. A., **S. G. Gautam**, G. P. Opit, J. Talley, and C. L. Jones. Population growth and development of the psocid *Liposcelis pearmani* Lienhard (Psocoptera: Liposcelididae) at constant temperatures and relative humidities, 58<sup>th</sup> Annual Meeting, ESA, San Diego, CA, Dec. 2010 (Talk)
20. **Gautam, S. G.** and G. P. Opit. Effects of constant temperatures and relative humidities on population growth and development of *L. rufa*, 86<sup>th</sup> Annual Meeting of the Kansas Entomological (Central States) Society, Stillwater, OK, Apr. 2010 (Talk)
21. **Gautam, S. G.**, G. P. Opit, and K. L. Giles. Effects of temperatures on reproductive parameters of the psocid *Liposcelis rufa* Broadhead, 58<sup>th</sup> Annual Meeting, ESA, San Diego, CA, Dec. 2010 (Poster)
22. **Gautam, S. G.**, G. P. Opit, K. L. Giles, and B. Adam. Population growth of *Liposcelis* species (Psocoptera: Liposcelididae) on varieties of wheat grown in Oklahoma, 7<sup>th</sup> Annual Graduate Research in the Biological Sciences Symposium, OSU, Stillwater, OK, Sept. 2010 (Poster)
23. **Gautam, S. G.**, G. P. Opit, K. L. Giles, and B. Adam. Effect of temperatures on development of *Liposcelis rufa* Broadhead (Psocoptera: Liposcelididae). 58<sup>th</sup> Annual Meeting, Southwestern Branch, ESA, Cancun, Mexico, Apr. 2010 (Poster)
24. **Gautam, S. G.**, and G. P. Opit. Population growth of psocid species *Liposcelis rufa* (Psocoptera: Liposcelididae) at constant temperatures and relative humidities. 6<sup>th</sup> Annual Graduate Research in the Biological Sciences Symposium, OSU, Stillwater, OK, Sept. 2009 (Talk)
25. **Gautam, S. G.**, G. P. Opit, K. L. Giles, and E. Bonjour. Population growth of psocid species *Liposcelis rufa* (Psocoptera: Liposcelididae) at constant temperatures and relative humidities. 57<sup>th</sup> Annual Meeting, ESA, Indianapolis, IN, Dec. 2009 (Poster)

#### **Grant Activity (Funded)**

1. Citrus Research Board, for \$511,245. "Core citrus IPM" Monique Rivera and Sandipa Gautam
2. California Avocado Commission, for \$9,829. Postharvest phosphine for control of *Lorriya formosa*, Sandipa Gautam
3. California Department of Food and Agriculture, \$999,969 "Promoting Biologically Integrated Orchard System's in Walnuts in the Sacramento and San Joaquin Valleys" Sara Tiffiany, David Runsten, Jhalendra Rijal (Project leaders) S. G. Gautam (co-operator)
4. California Department of Pesticide Regulations, for \$500,000. Hydrogel Baiting Systems for Sugar-Feeding Ants in California Grapes and Citrus. David Haviland, Kent Daane, Monique Rivera, Sandipa Gautam, and Kelsey Ann McCalla
5. USDA TASC, for \$1,475,828. Breaking critical pest-related trade barriers for California citrus exports: systems approach evaluations. Spencer Walse, Chang Lin Xiao, Jim Adaskaveg, and Sandipa Gautam, USDA TASC 10/01/2020-90/30/2023
6. Almond Research Board, for \$42,943. "Disinfestation efficacy of almond pasteurization processes to control red flour beetle and Indian meal moth". S.G. Gautam
7. Citrus Research Board, for 467,000. "Core Citrus IPM". E. Grafton-Cardwell and S. G. Gautam. 2019
8. Citrus Research Board, for 457,918. "Core Citrus IPM". E. Grafton-Cardwell and S. G. Gautam. 2018
9. Farm Bill, for, 199,156. "RAP-ID: Exploring the potential of real-time DNA sequencing technology to provide quick, accurate, and affordable identification of pest mites under field conditions" by P. R. Jones, R. Stouthamer, and S. G. Gautam
10. Citrus Research Board, for 442,761. "Core Citrus IPM. E. Grafton-Cardwell and S. G. Gautam. 2017
11. Almond Board of California, Modesto California, for \$117,667. "A survey of phosphine resistance in red flour beetle, Indianmeal moth, and sawtoothed grain beetle in California almond storage facilities". G. P. Opit and S. G. Gautam. 2015-2016

### **Workshops and Participations**

1. Fruit cutting and bean thrips identification workshop, Kearney REC (November 21, 2018) and Kern County (November 28, 2018)
2. California Red Scale workshop, LREC (2017-2019)
3. 2019 California Citrus Quality Council Regulatory Tour
4. Search Committee Member, for several SRA Position for Lindcove REC, 2016-2018
5. Search Committee Member, for Junior Specialist position for UC Davis, 2018
6. Search Committee Member, chair, for SRA I position for Kearney REC, 2019
7. Search Committee Member, chair, for Lab Assistant II for Kearney REC, 2020

### **Honors and Awards**

1. 2014 Graduate Research Excellence Award, OSU
2. 2013 Monsanto Student Travel Award, ESA
3. 2012 ESA International Congress of Entomology (ESA ICE) Travel Grant
4. 2012 Whitehead/Walton Award, Department of Entomology and Plant Pathology, OSU
5. 2012 Second place, Photomicroscopy Photograph, 60<sup>th</sup> Joint Annual Meeting, Southwestern and Southeastern Branches, ESA
6. 2011 Graduate Research Excellence Award, OSU
7. 2011 Outstanding Cultural Coordinator, International Student Organization, OSU
8. 2011 Whitehead/Walton Award, Department of Entomology and Plant Pathology, OSU
9. 2010 Graduate Summer Research Fellowship, Graduate College, OSU

### **Leadership and Service to Professional Societies**

- 2020 Organizer, member symposium, 2020 Annual meeting of ESA
- 2019 Organizer, member symposium, 2019 PBESA
- 2018 Organizer, member symposium, 2018 Annual Meeting of ESA
- Reviewer: Journal of Economic Entomology, Environmental Entomology, Journal of Insect Science, Journal of Stored Product Research, Annals of Applied Biology, Journal of Applied Entomology, The Coleopterists Bulletin, Turkish Journal of Entomology
- 2016-17 President, Society of Nepalese Overseas Entomologist
- 2015-16 President Elect, Society of Nepalese Overseas Entomologist
- 2016 Organizer, Symposia, XXV International Congress of Entomology
- 2014 Judge, 25<sup>th</sup> Annual Research Symposium, Graduate and Professional Student Government Association, Oklahoma State University
- 2013 Organizer, Member symposia, 62<sup>nd</sup> Annual Meeting, ESA
- 2012/13 Treasurer, Society of Overseas Nepalese Entomologists, ESA
- 2013 Session Moderator, 24<sup>th</sup> Annual Research Symposium, Graduate and Professional Student Government Association, Oklahoma State University
- 2012/13 Treasurer, Entomology and Plant Pathology Graduate Student Association, Oklahoma State University
- 2010/11 Cultural Coordinator, Nepalese Student Association, Oklahoma State University
- 2009/10, Secretary, Nepalese Student Association, Oklahoma State University
- Volunteer, SWB ESA and ESA 2010, 2011, 2012, and 2013

### **Professional Memberships**

- Entomological Society of America
- Pacific Branch of Entomological Society of America
- Society of Overseas Nepalese Entomologists