

## Gregory S. Simmons

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### EDUCATION

Ph.D. Entomology (2000), University of Arizona

M.S. Ecology and Evolutionary Biology (1991), University of Arizona

B.S. Botany (1987), University Washington

### PROFESSIONAL APPOINTMENTS

2026-Present, Visiting Scientist, Department of Entomology, University of California, Riverside.

2009-2026, Supervisory Agriculturist, USDA-APHIS-PPQ-Science and Technology, California Station, Salinas, CA.

2022 – Present, Adjunct Instructor, Horticulture Department, Monterey Peninsula College, Monterey, CA.

2000-2009 - Supervisory Entomologist, USDA-APHIS-PPQ-CPHST, Bakersfield CA and Phoenix, AZ.

1998-2000 - Entomologist and Department Head of Methods Development Laboratory, USDA-APHIS-IS, Screwworm Eradication Program, Chiapa de Corzo, Chiapas, Mexico.

1994-1998 - Entomologist, USDA-APHIS- PPQ. Silverleaf Whitefly Biological Control Program, Irrigated Desert Research Station, 4151, Brawley, CA.

### PUBLICATIONS

Bayles, B. R., Thomas, S. M., Simmons, G. S., Grafton-Cardwell, E. E., & Daugherty, M. P. (2017). Spatiotemporal dynamics of the Southern California Asian citrus psyllid (*Diaphorina citri*) invasion. *PLOS ONE*, 12(3), e0173226. doi:10.1371/journal.pone.0173226

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El-Sayed, A. M., Sporle, A., Gemeno, C., J6svai, J. K., Simmons, G.S., & Suckling, D. M. (2019). Leafroller-induced phenylacetone nitrile and acetic acid attract adult *Lobesia botrana* in European vineyards. *Zeitschrift für Naturforschung C*, 74(5-6), 161-165.

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- Gebiola, M., Gomez-Marco, F., Simmons, G.S., & Stouthamer, R. (2018). Effect of host feeding on life history traits of *Tamarixia radiata*, parasitoid of the Asian citrus psyllid, *Diaphorina citri*. *BioControl*, 63(6), 763-771. doi:10.1007/s10526-018-9903-7 2
- Gomez-Marco, F., Gebiola, M., Baker, B. G., Stouthamer, R., & Simmons, G.S. (2019). Impact of the Temperature on the Phenology of *Diaphorina citri* (Hemiptera: Liviidae) and on the Establishment of *Tamarixia radiata* (Hymenoptera: Eulophidae) in Urban Areas in the Lower Colorado Desert in Arizona. *Environmental Entomology*, 48(3), 514-523. doi:10.1093/ee/nvz048
- Goolsby, J. A., Ciomperlik, M. A., Simmons, G.S., Pickett, C. J., Gould, J. A., & Hoelmer, K. A. (2014). Chapter 5 - Mass Rearing *Bemisia* Parasitoids for Support of Classical and Augmentative Biological Control Programs. In J. A. Morales-Ramos, M. G. Rojas, & D. I. Shapiro-Ilan (Eds.), *Mass Production of Beneficial Organisms* (pp. 145-162). San Diego: Academic Press.
- Hood-Nowotny, R., Harari, A., Seth, R. K., Wee, S. L., Conlong, D. E., Suckling, D. M., . . . Carpenter, J. E. (2016). Stable Isotope Markers Differentiate between Mass-Reared and Wild Lepidoptera in Sterile Insect Technique Programs. *Florida Entomologist*, 99(sp1), 166-176, 111. Retrieved from <https://doi.org/10.1653/024.099.sp120>
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- Liu, Y.-B., Liu, S. S., Simmons, G.S., Walse, S. S., & Myers, S. W. (2013). Effects of Phosphine Fumigation on Survivorship of *Epiphyas postvittana* (Lepidoptera: Tortricidae) Eggs. *Journal of Economic Entomology*, 106(4), 1613-1618. doi:10.1603/ec13050
- Liu, Y.-B., Yang, X., & Simmons, G.S. (2016). Efficacy of Nitric Oxide Fumigation for Controlling Codling Moth in Apples. *Insects*, 7(4), 71. Retrieved from <https://www.mdpi.com/2075-4450/7/4/71>
- Morrison, N. I., Simmons, G.S., Fu, G., O'Connell, S., Walker, A. S., Dafa'alla, T., . . . Alphey, L. (2012). Engineered Repressible Lethality for Controlling the Pink Bollworm, a Lepidopteran Pest of Cotton. *PLOS ONE*, 7(12), e50922. doi:10.1371/journal.pone.0050922
- Pickett, C., Simmons, G.S., Lozano, E., & Goolsby, J. (2004). Augmentative biological control of whiteflies using transplants. *BioControl*, 49(6), 665-688.
- Poudel, M., Grafton-Cardwell, E. E., Daugherty, M. P., Almanzor, J. S., Washburn, A., Simmons, G.S., & Morse, J. G. (2016). Evaluation of Selected Insecticides for Asian Citrus Psyllid Control, 2014\*. *Arthropod Management Tests*, 41(1). doi:10.1093/amt/tsw137
- Schartel, T. E., Bayles, B. R., Cooper, M. L., Simmons, G.S., Thomas, S. M., Varela, L. G., & Daugherty, M. P. (2019). Reconstructing the European Grapevine Moth (Lepidoptera: Tortricidae), Invasion in California: Insights From a Successful Eradication. *Annals of the Entomological Society of America*, 112(2), 107-117. doi:10.1093/aesa/say056
- Scott, M. J., Morrison, N. I., & Simmons, G.S. (2014). Transgenic approaches for sterile insect control of dipteran livestock pests and lepidopteran crop pests. In M. Q. Benedict and M. J. Scott (eds.) *Transgenic Insects, Techniques and Applications*, 2<sup>nd</sup> Edition. CABI.

- Simmons, G.S., Alphey, L., Vasquez, T., Morrison, N., Epton, M., Miller, E., . . . Staten, R. (2007). Potential use of a conditional lethal transgenic pink bollworm *Pectinophora gossypiella* in area-wide eradication or suppression programmes. In *Area-wide control of insect pests* (pp. 119-123): Springer.
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- Simmons, G.S., Bloem, K. A., Bloem, S., Carpenter, J. E., & Suckling, D. M. (2021). Impact of Moth Suppression/Eradication Programmes Using the Sterile Insect Technique or Inherited Sterility. In V. A. Dyck, J. Hendrichs, & A. S. Robinson (Eds.), *Sterile Insect Technique. Principles and Practice 3 in Area-Wide Integrated Pest Management*. (Second ed., pp. 1007-1050). Boca Raton, FL: IAEA. CRC Press.
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- Simmons, G.S., McKemey, A. R., Morrison, N. I., O'Connell, S., Tabashnik, B. E., Claus, J., . . . Alphey, L. (2011). Field Performance of a Genetically Engineered Strain of Pink Bollworm. *PLOS ONE*, 6(9), e24110. doi:10.1371/journal.pone.0024110
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- Simmons, G.S., Pickett, C., Goolsby, J., Brown, J., Gould, J., Hoelmer, K., & Chavarria, A. (2008). Mass-rearing *Bemisia* parasitoids for support of classical and augmentative biological control programs. In *Classical Biological Control of Bemisia tabaci in the United States-A Review of Interagency Research and Implementation* (pp. 161-178): Springer.
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- Liviidae) and non-target effects on *Tamarixia radiata* (Hymenoptera: Eulophidae) in California. *Crop Protection*, 108, 62-70. doi:<https://doi.org/10.1016/j.cropro.2018.02.006>
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