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Education:

Ph.D. (Agronomy) **in 2020** in Entomology, State University of Londrina, Brazil

M.Sc. (Agronomy) **in 2017** in Entomology, State University of Londrina

B.Sc. (Agronomy) **in 2014**, State University of Londrina

Professional experiences:

Assistant Professor & Extension Specialist, ENPP, Auburn University (Jul 2024 – present)

Postdoctoral Research Associate, University of Georgia Tifton Campus (May 2021 – Jun 2024)

Graduate Research Assistant (MS, PhD), State University of Londrina (Mar 2015 – Dec 2020)

Undergraduate Student Worker, State University of Londrina (Sep 2011 – Dec 2014)

Grants:

Submitted (\$ 30,271):

2026 Southern IPM Center Seed Grant. Integrated Strategies for Sustainable Management of Cowpea Curculio in Southern Pea Production. Amount: \$ 28,371. Role: PI. Period: 03/01/2026 to 02/28/2027

2026 Southern IPM Center Seed Grant. Developing Multi-faceted Inter-disciplinary IPM Approaches to Manage Pepper Weevils. Amount: \$ 1,900. Role: Co-PI (10%, subcontract to UGA). Period: 03/01/2026 to 02/28/2027

Awarded (\$ 67,478):

Southern Region Small Fruit Consortium (SRSFC). Implementing Early Detection and Monitoring of the Invasive Grape and Muscadine Pest, Spotted Lanternfly (*Lycorma delicatula*), in Alabama. 2026. Amount: \$ 5,000. Role: PI (55%). Period: 03/01/2026 to 02/28/2027

SRSFC. Assessing Novel Pierce's Disease Resistant *Vitis vinifera* Grape Cultivars for Sustainable Production in Alabama and the Southeast (continued project). 2026. Amount: \$ 5,000. Role: co-PI (10%). Period: 03/01/2026 to 02/28/2027

Alabama Wheat & Feed Grain Producers (AWFGP). Determine Distribution of Corn Stunt Disease and its Insect Vector, the Corn Leafhopper, in Alabama. 2025. Amount: \$11,500. Role: co-PI (14%). Period: 03/01/2025 to 02/28/2026

SRSFC. Assessing Novel Pierce's Disease Resistant *Vitis vinifera* Grape Cultivars for Sustainable Production in Alabama and the Southeast. 2025. Amount: \$ 5,000. Role: co-PI

(10%). Period: 03/01/2025 to 02/28/2026

Georgia Commodity Commission for Vegetables (GCCV) Grant. Continued insecticide control measures for diamondback moth, whiteflies, and pepper weevil through bioassays. 2024. Amount: \$ 10,000 (USD), Role: PI. 01/01/2024 to 12/31/2024 (continued through UGA).

Postdoctoral Scholar Domestic and Foreign Travel Program grant for meeting travel assistance, Office of Postdoctoral Affairs, University of Georgia. Amount: \$ 800 (USD), role: main awardee. Application date: February 2, 2022. Date awarded: February 23, 2022

Georgia Commodity Commission for Vegetables (GCCV) Grant. Host plant resistance to the diamondback moth in laboratory and field tests. 2022. Amount: \$ 19,818. Role: Co-investigator (10% = \$ 1,918), 01/01/2022 to 12/31/2022.

CAPES/PDSE 2018 cycle grant for the development of doctoral internship (Sandwich category) in the University of Cape Town, South Africa, November 11, 2018 – April 30, 2019, grant number 88881.189343/2018-01. Amount: \$ 10,360 (USD), role: research visitor (main awardee). Application date: February 2, 2018. Date awarded: July 23, 2018

Industry (\$ 20,605):

Determination of field efficacy of Torac for Pepper Weevil, Nichino America, Spring 2024. Amount: \$ 6,000 (USD), Role: Principal investigator, Full credit.

Determining field efficacy of A-367 and PVM003 for Diamondback Moth larvae and adults, respectively, and other Lepidoptera that happen to occur in control tests in Cole crops in 2022. (FP00028024) ABA Biologicals Pty Ltd, NA, March 1, 2022–March 1, 2023. Amount: \$ 30,600 (USD), Role: Co-investigator of, Credit: 30% (\$ 9,180). Application date: September 1, 2022, Award date: October 19, 2022.

Determining field efficacy of A-367 for Diamondback Moth, Imported Cabbage Worm, and Cabbage Looper control in Collards (FP00024435), ABA Biologicals Pty Ltd, NA, June 1, 2021–May 31, 2022. Amount: \$ 11,475 (USD), Role: Co-investigator of, Credit: 30% (\$ 3,443). Application date: June 11, 2021, Award date: June 28, 2021.

International competitive (R\$ 115,200 BRL):

Brazilian government CAPES/Araucaria Foundation funding for graduate research assistantship - Ph.D. program, March 2017 – December 2020 (hiatus from December 2018–May 2019 due to Sandwich program award), grant number 88882.168655/2018-01, 36 monthly installments of R\$ 2,200 (BRL)

CNPq funding for graduate research assistantship - MS program, March 2015–February 2017, 24 monthly installments of R\$ 1,500 (BRL)

Peer-reviewed published papers:

1. Shehata AHA, McInnes HA, Jacobson A, Conner KN, Whitfield AE, Sikora EJ, **Cremonez PSG**, and Martin KM. 2026. First report of the resistance breaking (RB) strains of Tomato Spotted Wilt Virus (TSWV) infecting tomatoes with the Sw5-resistance gene in Alabama. *Plant Dis.*, 0:0, ja. [DOI](#)

2. da Cruz VHMM, da Silva TR, **Cremones PSG**, da Silva ALBR, Visentainer JV, and Rodrigues C. 2026. Tomato secondary metabolites as natural regulators of *Bemisia tabaci* behavior and performance: current applicability and prospects. *Front. Plant Sci.*, 16: 1704832. [DOI](#)
3. **Cremones PSG**, Kheirodin A, Perier JD, Nagaoka MM, Dunn TP, Parkins AJ, Schmidt JM, Rodrigues C, da Silva ALBR, Simmons AM, and Riley DG. 2025. Leaf trichome and insecticide interactions relative to *Bemisia tabaci* (Hemiptera: Aleyrodidae) management in a cotton-cucurbit strip cropping arrangement. *J. Econ. Entomol.*, toaf321. [DOI](#)
4. Dunn TP, al Baki MA, **Cremones PSG**, Riley DG, Sparks Jr. AN, Smith H, Champagne DE. 2025. Temporal variation in target site mutations is associated with diamide cross-resistance in diamondback moth populations (Lepidoptera: Plutellidae) from Florida and Georgia, USA. *Insects*, 16(11): 1179. [DOI](#)
5. Esquivel IL, Bryant T, Malone S, Jacobson AL, Graham SH, **Cremones PSG**, Roberts P, Paula-Moraes SV, Reisig D, Huseh A, Greene J, Reay-Jones FPF, Taylor S. 2025. First report of two-spot cotton leafhopper (*Amrasca biguttula* Ishida) (Hemiptera: Cicadellidae) on commercial cotton in the Southeastern United States. *Insects*, 16(9): 966. [DOI](#)
6. Rutz T, Pizzo JS, **Cremones PSG**, Coolong T, Simmons AM, Kartowikromo KY, Hamid AM, Ojeda AS, Rodrigues C, da Silva ALBR. 2025. Role of glandular trichomes and terpene diversity on tomato resistance against the sweetpotato whitefly. *HortScience*, 60(10): 1763-1771. [DOI](#)
7. Caputti T, Oliveira LP, Rodrigues C, **Cremones PSG**, Foshee W, Simmons AM, da Silva ALBR. 2025. Flight Parameters for Spray Deposition Efficiency of Unmanned Aerial Application Systems (UAASs). *Drones* 9(7), 461. [DOI](#)
8. Parkins AJ, Kheirodin A, Perier JD, **Cremones PSG**, Riley DG, Simmons AM, & Schmidt JM. 2024. Direct and indirect effects of selective insecticides on 2 generalist predators of *Bemisia tabaci* (Hemiptera: Aleyrodidae). *J. Insect Sci.* 24(6), 1. [DOI](#)
9. **Cremones PSG**, Matsumoto JF, Andrello AC, Pinheiro DO, & Neves PMOJ. 2024. Toxic effects of sublethal pyriproxyfen on baseline hemolymph biochemical balance in *Euschistus heros*. *Appl. Sci.* 14(20), 9388. [DOI](#)
10. Dunn TP, **Cremones PSG**, Furuya A, Brown WS, Nagaoka MM, Powell CB, Sparks Jr AN, Smith HA, Riley DG, & Champagne DE. 2024. Regional changes of maximum dose insecticide responses in diamondback moth (Lepidoptera: Plutellidae) populations from Georgia and Florida, USA. *J. Econ. Entomol.*, toae218. [DOI](#)
11. Perier JD, **Cremones PSG**, Smith HA, Simmons AM, & Riley DG. 2024. Susceptibility of *Bemisia tabaci* (Hemiptera: Aleyrodidae) adult populations to imidacloprid in Georgia, USA. *J. Agric. Sci.* 59(2): 182-192. [DOI](#)
12. Perier JD, **Cremones PSG**, Parkins AJ, Kheirodin A, Simmons AM, & Riley DG. 2024. Modified maximum dose bioassay for assessing insecticide response in field populations of *Bemisia tabaci* (Hemiptera: Aleyrodidae). *J. Agric. Sci.* 59(4). [DOI](#)
13. **Cremones PSG**, Perier JD, Simmons AM, & Riley DG. 2023. Precision and accuracy of field versus laboratory bioassay insecticide efficacy for the control of immature *Bemisia tabaci*. *Insects*. 14, 645. [DOI](#)
14. **Cremones PSG**, Perier JD, Simmons AM, & Riley DG. 2023. Determining whitefly field

insecticide efficacy using maximum dose bioassays. *Insects*. 14, 510. [DOI](#)

15. **Cremones PSG**, Matsumoto JF, Perier JD, Dunn TP, Pinheiro DO, & Neves PMOJ. 2023. Morphological and morphometric parameters of the reproductive organs of *Euschistus heros* (Hemiptera: Pentatomidae) treated with a sublethal juvenile hormone analog. *J. Agric. Sci.* 15(3), 10-28. [DOI](#)
16. Perier JD, **Cremones PSG**, Smith HA, Simmons AM, & Riley DG. 2023. Susceptibility of *Bemisia tabaci* (Hemiptera: Aleyrodidae) adult populations to imidacloprid in Georgia, USA. *J. Entomol. Sci.*, 59(2), 1-11. [DOI](#)
17. Agüero MAF, Neves PMOJ, **Cremones PSG**, & Fernandez DMM. 2023. Effect of *Metarhizium robertsii* associated with lufenuron on the mortality of *Nezara viridula* (Hemiptera: Pentatomidae) (In Spanish). *Rev. Colomb. Entomol.* 49(2): 1-9. [DOI](#)
18. Agüero MAF, **Cremones PSG**, & Neves PMOJ. 2023. Insect growth disruptors cause mouthpart malformations, inhibition of feeding, and mortality in the Neotropical brown stink bug *Euschistus heros* (Hemiptera: Pentatomidae). *J. Agric. Sci.* 15(2): 40-49. [DOI](#)
19. Perier JD, **Cremones PSG**, Champagne DE, Simmons AM, and Riley DG. 2022. Whiteflies at the intersection of polyphagy and insecticide resistance. *Ann. Entomol. Soc. Am.* 115(6): 401-416. [DOI](#)
20. Kavalappara SR, Riley DG, **Cremones PSG**, Perier JD, and Bag S. 2022. Wild radish (*Raphanus raphanistrum* L.) is a potential reservoir host of cucurbit chlorotic yellows virus. *Viruses* 14(3): 593. [DOI](#)
21. **Cremones PSG**, Marcomini MC, Pinheiro DO, and Neves PMOJ. 2022. Effect of sublethal concentrations of insecticides associated with NaCl and KCl on feeding behavior and mortality of *Euschistus heros* and *Diceraeus melacanthus* (Hemiptera: Pentatomidae). *Semina Cienc. Agrar.* 43(5): 2045-2058. [DOI](#)
22. **Cremones PSG**, Marco HG, Andrello AC, Neves PMOJ, and Pinheiro DO. 2021. The effect of pyriproxyfen on the concentration of circulating metabolic fuel molecules and chemical elements in the hemolymph of *Acraea horta* L. (Lepidoptera: Nymphalidae): A quantitative analysis. *Pestic. Biochem. Phys.* 177: 104907. [DOI](#)
23. Matsumoto JF, **Cremones PSG**, Roggia S, Falleiros AMF, Levy SM, Neves PMOJ, and Pinheiro DO. 2021. Sublethal concentration of pyriproxyfen reduces testicular connective tissue thickness in *Euschistus heros* Fabr. (Hemiptera: Pentatomidae). *J. Agric. Sci. (Toronto)* 13(9): 27-35. [DOI](#)
24. **Cremones PSG**, Moraes LAA, Aquino GS, Machado RR, Hayashida R, Sousa V, and Neves PMOJ. 2020. Establishment and control of *Tribolium castaneum* (Herbst, 1797) (Coleoptera: Tenebrionidae) with inert dusts in stored canola. *Entomol. Commun* 2: ec02001. [DOI](#)
25. **Cremones PSG**, Matsumoto JF, Andrello AC, Roggia S, Pinheiro DO, and Neves PMOJ. 2019. Macro-elements in the hemolymph of adult *Euschistus heros* (Fabr.) (Hemiptera: Pentatomidae) treated with pyriproxyfen. *Comp. Biochem. Phys. Part C* 220: 47-51. [DOI](#)
26. **Cremones PSG**, Gouvea SP, Pinheiro DO, Falleiros AMF, Levy SM, Meneghim AM, Fonseca ICB, and Neves PMOJ. 2019. Chitin biosynthesis inhibitors in *Euschistus heros* Fabr. (Hemiptera: Pentatomidae): morphometric alterations in testes and nuclei of testicular accessory cells. *J. Agric. Sci. (Toronto)* 11(1): 410-417. [DOI](#)

27. Bastos JSQ, Pereira MJB, Costa M, Turchen LM, Pinheiro DO, and **Cremones PSG**. 2018. Effect toxic and behavioral of *Annona mucosa* (Annonaceae) on the Tomato Leaf Miner. *J. Agric. Sci.* 10(8): 362-369. [DOI](#)
28. **Cremones PSG**, Pinheiro DO, Falleiros AMF, and Neves PMOJ. 2017. Performance of reproductive system of *Dichelops melacanthus* (Hemiptera: Pentatomidae) subjected to buprofezin and pyriproxyfen: morphological analysis of ovarioles and testes. *Semina Cienc. Agrar.* 38(4): 2279-2292. [DOI](#)
29. Agüero MAF, Neves PMOJ, and **Cremones PSG**. 2014. Pyriproxyfen and diflubenzuron effects on the reproduction of *Nezara viridula* L. (Hemiptera: Pentatomidae). *Invest. Agrar.* 16(2): 99-106. [LINK](#)

Other peer-reviewed reports:

1. **Cremones PSG**, Dunn TP, Gruver CL, & Riley DG. 2024. Evaluation of foliar insecticide treatments for thrips control in onion, 2022. *Arthropod Manag. Tests.* 49, tsae053. [DOI](#)
2. Dunn TS, **Cremones PSG**, Powell, CB, Champagne, DE, & Riley DG. 2023. Bioassay of insecticides for imported cabbageworm, 2023. *Arthropod Manag. Tests.* 48, tsad115. [DOI](#)
3. Dunn TS, **Cremones PSG**, Brown W, Riley D, & Gruver C. 2023. Evaluation of insecticide treatments in cabbage, 2021. *Arthropod Manag. Tests.* 48, tsad091. [DOI](#)
4. Perier JD, Sparks TC, Gruver CL, **Cremones PSG**, & Riley DG. 2023. Rapid bioassay for improved *Bemisia tabaci* insecticide resistance management, 2019. *Arthropod Manag. Tests.* 48, tsad086. [DOI](#)

Extension publications:

1. **Cremones PSG**. Spider Mites Scouting and Management in Vegetable Crops. *ACES Peer Review*, ANR-3210. [LINK](#)
2. **Cremones PSG**, da Silva ALBR. 2026. Smart irrigation and water management: A cornerstone of sustainable IPM in vegetable production. *ACES Peer Review*, ANR-3222. [LINK](#)
3. **Cremones PSG**, Cope N, Ribeiro L, Bovi HG, Rodrigues C, da Silva ALBR. 2025. Greenhouse tomato cultivar effects on *Bemisia tabaci* adult numbers across initial infestation levels. *Journal of NACAA*, 18(2): 1-13. [LINK](#)
4. da Silva ALBR, **Cremones PSG**, Majumdar A, Kemble J. 2025. Slug management in vegetable crops. *ACES Peer Review*, ANR-2734. [LINK](#)
5. Dunn TP, **Cremones PSG**, Brown WS, Riley DG, & Champagne DE. 2023. Bioassay of diamondback moth with *Bacillus thuringiensis* and Baculovirus insecticide mixtures. In Coolong T, and McAvoy T. (Eds.). *2023 University of Georgia Vegetable Extension and Research Report*, UGA Cooperative Extension Annual Publication 113-5, p. 20-21.
6. Riley DG, and **Cremones PSG**. 2022. Control of whiteflies in laboratory and field tests in Georgia. In Coolong T, and McAvoy T. (Eds.). *2022 University of Georgia Vegetable Extension and Research Report*, UGA Cooperative

Book Chapters:

1. **Cremones PSG**, Sparks AN, and Riley DG. Insecticide Resistance Management (IRM). In: Riley DG and Sparks AN (Eds.). Vegetable insect management in Georgia. UGA Extension, Bulletin 1587. 352 p.

Papers in prep:

1. **Cremones PSG**, Kheirodin A, Perier JD, Nagaoka MM, Dunn, T. P., Parkins AJ, Simmons AM, Schmidt JM, & Riley DG. Cyantraniliprole and pyriproxyfen effects on whitefly *Bemisia tabaci* in cotton and cantaloupe with different trichome density. In prep. To be submitted to Bulletin of Entomological Research.
2. Perier JD, **Cremones PSG**, Smith HA, Simmons AM, Riley DG. Susceptibility of *Bemisia tabaci* MEAM1 (Hemiptera: Aleyrodidae) Adult Populations from Georgia, USA, to Cyantraniliprole. Under review. Submitted to Journal of Economic Entomology.
3. Nagaoka MM, Ribeiro L, Dunn TP, Simmons AM, da Silva ALBR, Riley DG, & **Cremones PSG**. Insecticide sublethal concentration effects on reproduction of sweetpotato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). In prep. To be submitted to Journal of Economic Entomology.
4. Dunn TP, **Cremones PSG**, Brown WS, Riley DG, & Champagne DE. Interaction of *Bt* and baculovirus insecticides in diamondback moth control. In prep. To be submitted to Journal of Entomological Science.

Invited talks:

Cremones PSG, da Silva ALBR. Alabama Whitefly Management Updates. *2026 Southeast Fruit and Vegetable Conference*, Jan 10th, 2026, Savannah, GA.

da Silva ALBR, **Cremones PSG**. Alabama Whitefly Research Update. *2026 Southeast Fruit and Vegetable Conference*, Jan 10th, 2026, Savannah, GA.

Cremones PSG, da Silva ALBR. Thrips Management and TSWV-RB Status in the Southeast: A study case from Chandler Mountain, Alabama. *2026 Southeast Fruit and Vegetable Conference*, Jan 9th, 2026, Savannah, GA.

Carrilho EM, **Cremones PSG**. Insect Management in Alabama's High Tunnels. *High Tunnel Management Workshop*, Dec 5th, 2025, Birmingham, AL.

Cremones PSG. Organic Insect Pest Management in Tomatoes. *Alabama Regenerative Growers Conference*, Nov 5th, 2025, Birmingham, AL.

Cremones PSG. Practical Arthropod Management for Horticultural Crops in Alabama's Controlled Environments. *IPPM in Controlled Environment Agriculture Settings*, Oct 30th, 2025, Dallas, TX.

Cremones PSG. Integrated Pest Management and Pesticide Guide for Homeowners. *Butler County Master Gardener Course*, Sep 4th, 2025, Greenville, AL.

- Cremonez PSG.** Vegetable and fruit IPM updates. *2025 BARU Field Day*, Aug 12th, 2025, Brewton, AL.
- Cremonez PSG.** Vegetable IPM Updates. *Central Alabama Fruit and Vegetable Field Tour*, May 29th, 2025, Clanton, AL.
- Cremonez PSG.** Pest management in garden vegetables. *ACES Home Horticulture Team Meeting*, May 5th, 2025, Headland, AL.
- Cremonez PSG.** Insect Pest Management in Home Gardens. *Extension Master Gardener Update Webinar*, April 28th, 2025, online.
- Cremonez PSG.** Tomato, pepper, and eggplant insect management. *ACES Vegetable School 2025 (webinar series)*, Mar 19th, 2025, online.
- Cremonez PSG.** Insect management in plasticulture strawberries. *2025 Strawberry Production Meeting – North Alabama*, Mar 4th, 2025, Cullman, AL.
- Cremonez PSG.** Cucurbit Insect Management. *ACES Vegetable School 2025 (webinar series)*, Feb 26th, 2025, online.
- Cremonez PSG.** Tomato Spotted Wilt Outbreak in Alabama. *2025 Alabama Fruit and Vegetable Growers Association Meeting*, Feb 7th, 2025, Gulf Shores, AL.
- Cremonez PSG.** Whitefly control in cucurbits: previous and future studies. *2025 Tri-State Fruit & Vegetable Conference*, Jan 28th, 2025, Marianna, FL.
- da Silva ALBR, and **Cremonez PSG.** Update on whitefly impacting the Alabama vegetable industry. *2025 Southeast Fruit and Vegetable Conference*, Jan 11th, 2025, Savannah, GA.
- Cremonez PSG.** Whitefly insecticide resistance management strategies in Southeastern USA: Applied tactics for effective monitoring, sampling, and control in field and laboratory conditions. *2024 International Symposium on Crop Pests Resistance Management*, Oct 23rd, 2024, Taichung City, Taiwan.
- Cremonez PSG.** Bioassay-based whitefly management strategies: perspectives for Alabama and SW Georgia. *2024 UGA Tifton Campus Whitefly Extension Training*, Aug 6th, 2024, Tifton, GA.
- Cremonez PSG.** Insecticide Whitefly Management and Resistance. *2023 Vegetable Whitefly Research & Extension Agent Training*. Aug 8th, 2023, Tifton, GA.
- Cremonez PSG**, Riley DG, and Perier JD. 2022. Prediction of insecticide field efficacy and other IRM studies on whiteflies in Georgia. Symposium “New and Emerging Issues with Whiteflies and Whitefly-transmitted Viruses.” *2022 Joint Annual Meeting of the Entomological Society of America, Entomological Society of Canada and Entomological Society of British Columbia*, Nov 2022, Vancouver, Canada.
- Riley DR, and **Cremonez PSG.** Management of Whitefly and Whitefly transmitted Viruses in Vegetables. *2022 Status of Insecticide Resistance in Whitefly, UGA-ANR Training*, Jul 29th, 2022, Tifton, GA.
- Riley DR, and **Cremonez PSG.** Updates on Onion Thrips Management. *2022 UGA Vidalia Onion Field Day*, Apr 6th, 2022, Vidalia Onion and Vegetable Research Center, Lyons, GA.
- Cremonez PSG**, Riley DG, and Perier JD. 2022. Correlation between lab bioassays and field trials for estimating whitefly resistance. Symposium “Recent Advancements in Taxonomy, Ecology, Virus Transmission, and Management of Whiteflies and Whitefly-

Transmitted Viruses.” 2022 *Joint Entomological Society of America-Southeastern Branch and American Phytopathological Society - Caribbean Division Meeting*, Mar 29th, 2022, San Juan, Puerto Rico.

Cremones PSG. 2019. Biorational control of pest insect species in Brazil – results and perspectives. *2019 Departmental Seminars - BioSci Talks*, May 7th, 2019, University of Cape Town, Rondebosch, South Africa.

Meeting presentations:

Cremones PSG, Cope N, Ribeiro LS, Shahi P, da Silva ALBR, Rodrigues C, Simmons AM. Recent host plant resistance studies for the management of sweetpotato whitefly in Alabama. *2025 Entomological Society of America Annual Meeting*, Nov 2025, Portland, OR.

da Silva ALBR, Rodrigues C, Simmons AM, **Cremones PSG**. An overview of tomato plants resistance to sweetpotato whitefly: The importance of proper cultivar selection and future of breeding programs. *2025 Entomological Society of America Annual Meeting*, Nov 2025, Portland, OR.

Carrilho EM, **Cremones PSG**, Sikora E, Ventura MU, Maluta NKP, Lopes JRS. Corn Leafhopper IPM in Maize: A Case Study from Brazil and Implications for Emerging Corn Stunt in Alabama, USA. *2025 Entomological Society of America Annual Meeting*, Nov 2025, Portland, OR.

al-Baki MA, Dunn TP, **Cremones PSG**, Champagne DE. Gene silencing of CYP450 enzymes using RNA interference (RNAi) restores insecticide susceptibility in whitefly populations from Georgia, USA. *2025 Entomological Society of America Annual Meeting*, Nov 2025, Portland, OR.

Cremones PSG, Ribeiro L, Rodrigues C, Simmons AM, and da Silva ALBR. Applied IRM tactics for *Bemisia tabaci* in Alabama: A multi-level approach. *2025 ESA Southeastern Branch annual meeting*, Mar 2025, Baton Rouge, LA.

da Silva ALBR, Caputti T, Barion L, Rodrigues C, **Cremones PSG**, and Simmons AM. Determining flight parameters for whitefly management using spraying drones. *2025 ESA Southeastern Branch annual meeting*, Mar 2025, Baton Rouge, LA.

Rodrigues C, Rutz T, Pizzo J, **Cremones PSG**, Simmons AM, and da Silva ALBR. Role of secondary metabolites on tomato resistance against sweetpotato whitefly. *2025 ESA Southeastern Branch annual meeting*, Mar 2025, Baton Rouge, LA.

Parkins AJ, Kheirodin A, Perier JD, **Cremones PSG**, Riley DG, Simmons AM, and Schmidt JM. The interactive effects of selective insecticides and plant leaf traits on *Bemisia tabaci* and its predator. *2025 ESA Southeastern Branch annual meeting*, Mar 2025, Baton Rouge, LA.

Cremones PSG, Ribeiro L, Rodrigues C, and da Silva ALBR. Whitefly research projects: Previous and future studies. *Whitefly Biology, Ecology and Management Annual Update Meeting*, Jan 2025, Auburn, AL.

Cremones PSG. Sustainable IPM approaches for fruit and vegetable entomology in Alabama: Challenges, propositions, and perspectives. *2024 Entomological Society of America Annual Meeting*, Nov 2024, Phoenix, AZ.

- al-Baki MA, Perier JD, Dunn TP, **Cremonese PSG**, Riley DG, and Champagne DE. Exploring the role of cytochrome P450s in insecticide resistance using RNA interference in *Bemisia tabaci* (Gennadius) populations from Georgia, USA. *2024 Entomological Society of America Annual Meeting*, Nov 2024, Phoenix, AZ.
- Cremonese PSG**. Integrated Agronomic Practices for Vegetable and Fruit IPM program: The case of Alabama, USA. *29th Brazilian Congress of Entomology*, Sep 2024, Uberlandia, Brazil.
- Cremonese PSG**, Dunn TP, al-Baki MA, Simmons AM, Silva ALBR, and Champagne DE. Multi-level strategies for Insecticide Resistance Management of MEAM1 whitefly *Bemisia tabaci* in the Southeastern USA: Ecological, toxicological, and molecular approaches. *29th Brazilian Congress of Entomology*, Sep 2024, Uberlandia, Brazil.
- Cremonese PSG**, Dunn TP, Gruver CL, Brown WS, Riley DG, and Champagne DE. Bt and baculovirus mixtures potentially result in antagonistic effects in the field when applied for diamondback moth control. *Georgia Entomological Society Annual Meeting 2024*, Apr 2024, Jekyll Island, GA.
- Dunn TP, **Cremonese PSG**, Sparks Jr AN, Riley DG, and Champagne DE. Development of a PCR-based diagnostic assay for diamondback moth and its applications for research and extension. *Georgia Entomological Society Annual Meeting 2024*, Apr 2024, Jekyll Island, GA.
- Cremonese PSG**, Kheirodin A, Schmidt JM, Simmons AM, and Riley DG. Host plant traits and insecticide efficacy in whitefly management within a cotton-cucurbit intercropping system. *2024 Entomological Society of America Southeastern Branch Meeting*, Mar 2024, Augusta, GA.
- al-Baki MA, Champagne DC, Perier JP, **Cremonese PSG**, Dunn TP, Simmons AM, and Riley DG. Genetic factors implicated in metabolic resistance to imidacloprid and cyantraniliprole in Georgia populations of the whitefly, *Bemisia tabaci*. *2024 Entomological Society of America Southeastern Branch Meeting*, Mar 2024, Augusta, GA.
- Cremonese PSG**, and Riley DG. Why is insecticide resistance management a hot topic in Southeastern vegetable crops? The UGA-Tifton Vegetable Entomology Lab's work profile. *2023 Entomological Society of America Annual Meeting*, Nov 2023, National Harbor, MD.
- Nagaoka MM, **Cremonese PSG**, and Riley DG. Effects of sublethal concentrations of pyriproxyfen and cyantraniliprole on *Bemisia tabaci* life table and nutritional profile. *2023 Entomological Society of America Annual Meeting*, Nov 2023, National Harbor, MD.
- Cremonese PSG**, and Riley DG. Traditional vs bioassay evaluations of immature *Bemisia tabaci* control: Which is the true measure of efficacy? *2023 Entomological Society of America Southeastern Branch Meeting*, Mar 2023, Little Rock, AR.
- Nagaoka MM, **Cremonese PSG**, and Riley DG. Insecticide sublethal effects on the reproduction of the sweet potato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). *2023 Entomological Society of America SE Branch Meeting*, Mar 2023, Little Rock, AR.
- Perier JD, Riley DG, and **Cremonese PSG**. Investigating the cyantraniliprole dose-response of *Bemisia tabaci* (Hemiptera: Aleyrodidae) relative to host plant effects. *2022 Joint Annual*

Meeting of the Entomological Society of America, Entomological Society of Canada and Entomological Society of British Columbia, Nov 2022, Vancouver, Canada.

Cremones PSG, Riley DG, and Perier JD. 2021. High-low dose response bioassay to predict field insecticide efficacy in whiteflies in Georgia. *Entomological Society of America Annual Meeting 2021*, Nov 2021, Denver, CO.

Perier JD, Riley DG, and **Cremones PSG**. 2021. Imidacloprid and Cyantraniliprole dose-response in *Bemisia tabaci* (Gennadius) (Hemiptera: Aleyrodidae) in Georgia. *Entomological Society of America Annual Meeting 2021*, Nov 2021, Denver, CO.

Riley DG, Perier JD, and **Cremones PSG**. 2021. Whitefly insecticide resistance research in Georgia. *Entomological Society of America Annual Meeting 2021*, Nov 2021, Denver, CO.

Poster presentations:

19 Total (selected examples below).

Carrilho, Eder M. **Paulo S. G. Cremones**, and Mauricio U. Ventura. The role of silicon and chitosan in entomopathogenic fungi pathogenicity against the Asian citrus psyllid, *Diaphorina citri* Kuwayama (Hemiptera: Liviidae). 2025 Entomological Society of America Annual Meeting, Portland, OR, Nov 11.

Aigbedion-Atalor, Itohan, Albertha J. Parkins, Jermaine D. Perier, **Paulo S. G. Cremones**, David G. Riley, Alvin M. Simmons, and Justin M. Schmidt. Can the combined interaction of insecticides and plant traits alter the abundance and distribution of *Bemisia tabaci* and its biocontrol communities? 2024 Entomological Society of America Annual Meeting, Phoenix, AZ, Nov 10-13.

Dunn, Thomas P., **Paulo S. G. Cremones**, David G. Riley, Alton N. Sparks Jr., and Donald E. Champagne. 2024. Monitoring diamondback moth insecticide resistance in Georgia. Poster session presented at the 2024 SE Regional Fruit and Vegetable Conference, Savannah, GA. Jan 10-14.

Nagaoka, Mirela M., **Paulo S. G. Cremones**, and David G. Riley. 2023. Insecticide sublethal dose effects on the reproduction of the whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). Corteva DELTA 2023, Indianapolis, IN, Aug 7-9.

Cremones, Paulo S. G., Arash Kheirodin, Jermaine D. Perier, Mirela M. Nagaoka, Albertha J. Parkins, Alvin M. Simmons, Jason M. Schmidt, and David G. Riley. 2023. Trichome-dependent differences in insecticide efficacy against the sweetpotato whitefly in cotton and cantaloupe in Georgia. 2023 Georgia Entomological Society Annual Meeting, Helen, GA, Apr 19-21.

Nagaoka, Mirela M., **Paulo S. G. Cremones**, and David G. Riley. 2023. Sublethal effects of pyriproxyfen and cyantraniliprole on *Bemisia tabaci* immature development. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference, Savannah, GA. Jan 5-8.

Dunn, Thomas P., **Paulo S. G. Cremones**, Will S. Brown, David G. Riley, and Donald E. Champagne. 2023. Interaction of *Bt* and Baculovirus insecticides in diamondback moth control. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference, Savannah, GA. Jan 5-8.

Riley, David G., Jermaine D. Perier, and **Paulo S. G. Cremones**. 2022. Vegetable insect control update in Georgia. Poster session presented at the meeting of SE

- Regional Fruit and Vegetable Conference. Savannah, GA. Jan 7-8.
- Cremonez, Paulo S. G.**, David G. Riley, Jermaine D. Perier. 2022. Lab bioassays as tools for whitefly resistance management in GA. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Savannah, GA. Jan 7-8.
- Perier, Jermaine D., David G. Riley, and **Paulo S. G. Cremonez**. 2022. Surveying imidacloprid and cyantraniliprole dose-response in whiteflies in Georgia. Poster session presented at the meeting of SE Regional Fruit and Vegetable Conference. Savannah, GA. Jan 7-8.
- Riley, David G., and **Paulo S. G. Cremonez**. 2021. Quick bioassays to predict field insecticide efficacy against whiteflies. Farm Bureau State Commodity Conference, Tifton, GA. Aug 16.
- Perier, Jermaine D., David G. Riley, and **Paulo S. G. Cremonez**. 2021. How effective is imidacloprid and cyantraniliprole in controlling whiteflies in Georgia? Farm Bureau State Commodity Conference, Tifton, GA. Aug 16.
- Neves, Pedro M. O. J., **Paulo S. G. Cremonez**, and Daniela O. Pinheiro. 2018. Chitin biosynthesis inhibitors in adult *Euschistus heros* Fabr. (Hemiptera: Pentatomidae): Morphometric alterations in testes and nuclei of testicular accessory cells. ESA, ESC, and ESBC Joint Annual Meeting, Vancouver, BC, Canada. Nov 14.
- Matsumoto, Janaina F., **Paulo S. G. Cremonez**, Avacir C. Andrello, Samuel Roggia, Daniela O. Pinheiro, and Pedro M. O. J. Neves. 2018. Macro and microelements in the hemolymph of adult *Euschistus heros* (F.) treated with pyriproxyfen. Brazilian Entomological Society Annual Meeting, Gramado, Brazil. Sep 2-6.

Teaching experience

Teaching assistantship:

Auburn University

- Integrated Pest Management (ENTM 5330), Spring 2025.
 - o Vegetable Crops IPM, Apr/2025
- Economic Entomology (ENTM 4020), Fall 2024, 2025.
 - o Vegetable, Fruit, and Tree Crops IPM

University of Georgia

- Crop-Specific Insect Management (ENTO 6350), Summer 2023
- Concepts in Integrated Pest Management (ENTO 8820), Spring 2023

State University of Londrina, Agronomy graduate courses:

- Insect Physiology (6AGR049) guest lecture
 - o Reproduction System and Embryology, once a year from 2017-present
- Insect Chemical Control (2AGR258) guest lectures
 - o Resistance in Insects – the case of pesticides and GMOs, Sep/2020
 - o Histology and Associated Techniques, Nov/2020

- Resistance in Insects: A Case Study from Georgia, USA, Apr/2023

Graduate committee member

- Priya Shahi, MS (Entomology), Auburn University (Chair), in progress.
- Eder M. Carrilho, Ph.D. (Agronomy), State University of Londrina, Brazil (Committee Member/Visiting scholar chair), in progress.
- Aerianna Littler, Ph.D. (Entomology), Auburn University (Committee Member), in progress.
- Abdelaal Shehata, Ph.D. (Plant Pathology), Auburn University (Committee Member), in progress.
- Neilly Cope, MS (Horticulture), Auburn University (Committee Member), in progress.
- Luan Alves, MS (Horticulture), Auburn University (Committee Member), in progress.
- Sara Paz, MS (Horticulture), Auburn University (Committee Member), in progress.
- Marcos F. L. Barros, Ph.D. (Horticulture), Auburn University (University Reader, 2025).
- Thiago Rutz da Silva, Ph.D. (Horticulture), Auburn University (University Reader), 2024.
- Mirela M. Nagaoka, MS (Entomology), University of Georgia, graduated December 2023), thesis: Insecticide sublethal concentration effects on the reproduction of the whitefly, *Bemisia Tabaci* (Hemiptera: Aleyrodidae)
- Janaina F. Matsumoto, MS (Agronomy), State University of Londrina, thesis: Pyriproxyfen on biological and histological parameters of testicles and populational fluctuation of *Euschistus heros* (Fabricius) (Hemiptera: Pentatomidae), graduated Feb 2020.

Undergraduate committee member: 4 Total

- Luiz F. R. Ferreira (BSc Agronomy – State University of Londrina, 2015)
- Pedro A. A. Secco (BSc Agronomy – State University of Londrina, 2017)
- Joao Z. E. Favoreto (BSc Agronomy – State University of Londrina, 2017)
- Miriam Vicentini (BSc Agronomy – UniFil University - Londrina, 2020)

Outreach/service experience

Grant panels

Western IPM Center

- 2025 WIPM Center Grant, Invited Panelist, January 30th 2025.

Events organization:

Entomological Society of America

- Moderator: Session “PBT: Risk Assessment and Applied Toxicology.” 2023 ESA National Meeting. November 8, 2023. National Harbor, MD.
- Moderator: Session “Masters Student 10-min Competition.” 2023 Southeastern

Branch Meeting. March 13, 2023. Little Rock, AR.

- Moderator: Symposium “Recent Advancements in Taxonomy, Ecology, Virus Transmission, and Management of Whiteflies and Whitefly-Transmitted Viruses”. 2022 Joint SEB & APS-CD Meeting. March 29, 2022. San Juan, Puerto Rico.

Abraham Baldwin Agricultural College

- Judge: 2024 ABAC Regional Science & Engineering Fair. January 30, 2024. Tifton, GA.
- Judge: 2023 ABAC Regional Science & Engineering Fair. February 10, 2023. Tifton, GA.

Reviewer for scientific journals: 15 Total

2025: Environmental Science and Pollution Research

2025: Journal of Cotton Science

2024: ACES Peer Review

2024: Scientia Horticulturae

2024: Journal of Economic Entomology

2023: Florida Entomologist

2023: Phytoparasitica

2023: Neotropical Entomology

2023: Journal of Pest Science

2022: Journal of Insect Physiology

2020: Semina - Ciências Agrárias (Londrina, Brazil)

2020: Current Journal of Applied Science and Technology

2019: Comparative Biochemistry and Physiology Part C

2019: Journal of Agricultural Science (Toronto, Canada)

2019: Invertebrate Survival Journal

Memberships of professional organizations

2024-present: Alabama Farmers Federation (ALFA, alfafarmers.org)

2024-present: Alabama Association of County Agricultural Agents and Specialists (AACAAAS, aacaas.com)

2023-2024: Georgia Entomological Society (site.caes.uga.edu/ges)

2021-present: Entomological Society of America (entsoc.org)

2013-2019, 2024-present: Entomological Society of Brazil (seb.org.br/en)