DR. PAULO S. G. CREMONEZ
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ResearcherID: D-8149-2018

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Education:

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

Dissertation: Morphophysiological alterations in *Euschistus heros* Fabr. (Hemiptera: Pentatomidae) treated with a sublethal concentration of pyriproxyfen

Area of specialization: Insecticide physiology and insect hormone action

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

Thesis: Insecticides with different modes of action associated with NaCl and KCl on feeding behavior and mortality of *Euschistus heros* and *Dichelops melacanthus* (Hemiptera: Pentatomidae)

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 (research):

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

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

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

CNPq funding for MS program, March 2015-February 2017, monthly installments of R$ 1,500 (BRL)

Grants (industry) – US$ 30.605:

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, Funding type: Research, Status: Awarded

Host plant resistance to the diamondback moth in laboratory and field tests (FP00025533), GA Commodity Comm Vegetables, VG2212, January 1, 2022–December 31, 2022

Amount: $ 19,818 (USD), Role: Co-investigator of, Credit: 10% ($ 1,982)

Application date: November 4, 2021, Award date: January 10, 2022, Funding type: Research, Status: Awarded

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, Funding type: Research, Status: Closed

Determination of field efficacy of Torac for Pepper Weevil, Nichino America, Spring 2024.

Amount: $ 6,000 (USD), Role: Principal investigator, Full credit.

Georgia Commodity Commission for Vegetables (GCCV) grant VG2402 “Continued insecticide control measures for diamondback moth, whiteflies, and pepper weevil through bioassays”

Amount: $ 10,000 (USD), Role: Principal investigator.

Peer-reviewed published papers:

1. Perier JD, **Cremonez 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
2. Perier JD, **Cremonez 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

3. **Cremonez 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

4. **Cremonez PSG**, Perier JD, Simmons AM, & Riley DG. 2023. Determining whitefly field insecticide efficacy using maximum dose bioassays. *Insects*. 14, 510. DOI

5. **Cremonez 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

6. Perier JD, **Cremonez 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

7. Agüero MAF, Neves PMOJ, **Cremonez 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

8. Agüero MAF, **Cremonez 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

9. Perier JD, **Cremonez 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

10. Kavalappara SR, Riley DG, **Cremonez 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

11. **Cremonez 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

12. **Cremonez PSG**, Marco HG, Andrello AC, Neves PMOJ, and Pinheiro DO. 2021. The effectof 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

13. Matsumoto JF, **Cremonez 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

14. **Cremonez 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

15. **Cremonez 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

16. **Cremonez 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

17. Bastos JSQ, Pereira MJB, Costa M, Turchen LM, Pinheiro DO, and **Cremonez PSG**. 2018.Effect toxic and behavioral of *Annona mucosa* (Annonaceae) on the Tomato Leaf Miner. *J. Agric. Sci. 10*(8): 362-369. DOI

18. **Cremonez PSG**, Pinheiro DO, Falleiros AMF, and Neves PMOJ. 2017. Performance of reproductive system of *Dichelops melacanthus* (Hemiptera: Pentatomidae) subjectedto buprofezin and pyriproxyfen: morphological analysis of ovarioles and testes. *Semina Cienc. Agrar. 38*(4): 2279-2292. DOI

19. Agüero MAF, Neves PMOJ, and **Cremonez 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. **Cremonez 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, Cremonez **PSG**, Powell, CB, Champagne, DE, & Riley DG. 2023. Bioassay of insecticides for imported cabbageworm, 2023. *Arthropod Manag. Tests*. 48, tsad115. DOI
3. Dunn TS, **Cremonez 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, **Cremonez PSG**, & Riley DG. 2023. Rapid bioassay for improved *Bemisia tabaci* insecticide resistance management, 2019. *Arthropod Manag. Tests.* 48, tsad086. DOI

Extension reports:

1. Dunn TP, **Cremonez PSG**, Brown WS, Riley DG, & Champagne DE. 2023. Bioassay of diamondback moth with *Bacillus thuringiensis* and Baculovirus inseciticide 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.
2. Riley DG, and **Cremonez 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 Extension Annual Publication 113-4, p. 16-17.

Papers in prep:

1. **Cremonez PSG**, Matsumoto JF, Andrello AC, Pinheiro DO, & Neves PMOJ. 2023. Circulating fuel metabolites and micro-elements in the hemolymph of pyriproxyfen-treated *Euschistus heros*. SSRN Electronic Journal (preprint

repository). Submitted to Comparative Biochemistry and Physiology Part C: Toxicology and Pharmacology (Jan/2023). Preprint DOI

2. Dunn TP, **Cremonez PSG**, Furuya A, Brown WS, Nagaoka MM, Powell CB, Sparks Jr AN, Smith H, & Riley DG. Regional changes of maximum dose insecticide responses in diamondback moth (Lepidoptera: Plutellidae) populations from Georgia and Florida, USA. Submitted to Journal of Economic Entomology, awaiting major reviews resubmission.
3. **Cremonez 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.
4. Perier JD, **Cremonez 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.
5. Nagaoka MM, Dunn TP, Simmons AM, Riley DG, & **Cremonez PSG**. Insecticide sublethal concentration effects on reproduction of sweetpotato whitefly, *Bemisia tabaci* (Hemiptera: Aleyrodidae). In prep. To be submitted to Journal of Economic Entomology.
6. Dunn TP, **Cremonez 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.
7. **Cremonez PSG**, Gruver CL, Riley DG. Evaluation of insecticide treatments in bush bean, 2022. In prep. To be submitted to Arthropod Management Tests.

Selected meeting presentations:

Cremonez 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*, Augusta, GA.

al-Baki MA, Champagne DC, Perier JP, **Cremonez 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*, Augusta, GA.

Cremonez PSG, Dunn TP, Gruver CL, Brown WS, Riley DG, and Champagne DC. Bt and baculovirus mixtures potentially result in antagonistic effects in the field when applied for diamondback moth control. *Georgia Entomological Society Annual Meeting 2024*, Jekyll Island, GA.

Dunn TP, **Cremonez PSG**, Sparks Jr AN, Riley DG, and Champagne DC. Development of a PCR-based diagnostic assay for diamondback moth and its applications for research and extension. *Georgia Entomological Society Annual Meeting 2024*, Jekyll Island, GA.

Cremonez 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*, National Harbor, MD.

Nagaoka MM, **Cremonez 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*, National Harbor, MD.

Cremonez 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*, Little Rock, AR.

Nagaoka MM, **Cremonez 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*, Little Rock, AR.

Cremonez PSG, Riley DG, and Perier JD. 2022. Prediction of insecticide field efficacy and other IRM studies on whiteflies in Georgia. *2022 Joint Annual Meeting of the Entomological Society of America, Entomological Society of Canada and Entomological Society of British Columbia*, Vancouver, Canada.

Cremonez PSG, Riley DG, and Perier JD. 2022. Correlation between lab bioassays and field trials for estimating whitefly resistance. *2022 Joint Entomological Society of America-Southeastern Branch and American Phytopathological Society - Caribbean Division Meeting*, San Juan, Puerto Rico.

Cremonez 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*, Denver, CO.

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

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

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

Poster presentations:

17 Total (recently selected examples below).

Dunn, Thomas P., **Paulo S. G. Cremonez**, 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. Cremonez**, 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.

Cremonez, 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. Cremonez**, 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. Cremonez,** 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. Cremonez**. 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.

Extension experience

Invited speaker for the 2023 Vegetable Whitefly Research & Extension Agent Training meeting in August 8 2023, presenting a comprehensive 10-minute talk titled “Insecticide Whitefly Management and Resistance”, followed by a hands-on bioassay demonstration.

2023-current: conducting survey on farms in Georgia and Florida counties, United States, for collection of diamondback moths (*Plutella xylostella*) for lab bioassay and genomic analysis in search of target site mutations presence and frequency. This project involves the collaboration of several research and extension professionals, growers, and associated stakeholders working with cole crops in Southeastern USA.

2021-2022: conducted survey on farms and research centers around South Georgia, United States, for collection of whiteflies (*Bemisia tabaci*) samples for lab bioassay analysis and genomic data acquisition for later evaluation of resistance-related genes of importance. This provided insightful field experience and contact with professionals on different levels, such as county agents, growers, and facility managers.

Assisted in the University of Georgia (UGA) sponsored Vidalia Onion Field Day in April 2022. In the area of formal training of cooperative extension staff, I co-presented an extension agent training workshop at the UGA Tifton Campus (citation below).

> Riley, D. and **P. Cremonez**. 2022. Status of insecticide resistance in whitefly. UGA-ANR Training on "Management of Whitefly and Whitefly transmitted Viruses in Vegetables". Tifton, GA, Jul. 29

2018-2020: participated in the extension project titled "Little Observers: the insects in the perspective of children from the Infant Educational Center of the State University of Londrina". Description: work with kindergarten students, around 5 to 6-year-old children, on recreational activities involving exploring, discovering, and describing insects and other arthropods in a community-like farm based in the educational center.

Teaching experience

Teaching assistantship:

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
  - Reproduction System and Embryology, once a year from 2017-present
- Insect Chemical Control (2AGR258) guest lectures
  - Resistance in Insects – the case of pesticides and GMOs, Sep/2020
  - Histology and Associated Techniques, Nov/2020
  - Resistance in Insects: A Case Study from Georgia, USA, Apr/2023

Graduate committee member: 2 Total

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)

Mirela M. Nagaoka (MS Agronomy-University of Georgia, graduated December 2023), thesis: Insecticide sublethal concentration effects on the reproduction of the whitefly, *Bemisia Tabaci* (Hemiptera: Aleyrodidae)

Undergraduate committee member: 4 Total

Luiz F. R. Ferreira (BSc Agronomy – State University of Londrina, grad. 2015)

Pedro A. A. Secco (BSc Agronomy – State University of Londrina, grad. 2017)

Joao Z. E. Favoreto (BSc Agronomy – State University of Londrina, grad. 2017)

Miriam Vicentini (BSc Agronomy – UniFil College-Londrina, grad. 2020)

Outreach/service experience

Events organization:

Entomological Society of America

- Moderator: 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: ABAC Regional Science & Engineering Fair. February 10, 2023. Tifton, GA.

Reviewer for scientific journals: 10 Total

2023-present: Florida Entomologist

2023-present: Phytoparasitica

2023-present: Neotropical Entomology

2023-present: Journal of Pest Science

2022-present: Journal of Insect Physiology

2020-present: Semina - Ciencias Agrarias (Londrina, Brazil)

2020-present: Current Journal of Applied Science and Technology

2019-present: Comparative Biochemistry and Physiology Part C

2019-present: Journal of Agricultural Science (Toronto, Canada)

2019-present: Invertebrate Survival Journal

Memberships of professional organizations

2023-present: 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)