Dr. Robin Alan Choudhury

The University of Texas Rio Grande Valley
School of Earth, Environmental, and Marine Sciences
(956) 665-8810
Email: robin.choudhury@utrgv.edu

Education

PhD, University of California, Davis, 2016

Major: Plant Pathology

MS, University of California, Davis, 2013

Major: Plant Pathology

BS, University of Maryland , 2009

Major: Plant Sciences

Employment

Government

Government, Biological Technician, USDA-ARS, (2009 - 2010)

Publications

Book Chapters

Karen Garrett and Ricardo Alcala-Briseno and Kelsey Andersen and Robin Choudhury and Wanita Dantes and Joubert Fayette. Adapting disease management systems under global change. St. Paul, MN: *APS Press*. (July (3rd Quarter/Summer))
https://apsjournals.apsnet.org/doi/10.1094/9780890546383.003

Journal Article, Academic Journal

David Armitage and Morgan Carter and Robin Choudhury and Mitja Remus-Emsermann and Cindy Morris and Johan Leveau and Linda Kinkel and JP Dundore-Arias. Predictive Ecology and Management of Phyllosphere Microbial Communities Through Cross-Scale Synthesis.: *Phytobiomes Journal*. (August)
https://doi.org/10.1093/ee/nvad025

Robin Choudhury and Neil McRoberts. Spinach growers value host resistance and synthetic fungicides in the fight against downy mildew.: *Plant Health Progress*. (August)
https://apsjournals.apsnet.org/doi/abs/10.1094/PHP-09-22-0093-BR

Lilly Elliott-Vidaurri and Isabel Martinez and Engil Pujol Pereira Mikita and Hannah Penn and Robin Choudhury. Tree canopy cover and elevation affect the distribution of red harvester ant nests in a peri-urban setting.: *ENVIRONMENTAL ENTOMOLOGY*. (March)

Berea Etherton and Robin Choudhury and Ricardo Alcala-Briseno and Yanru Xing and Aaron Sula and Daniel Carrillo and Jeff Wasielewski and Lukasz Stelinski and Kelly Grogan and Freddy Ballen and Trent Blare and Jonathan Crane and Karen Garrett. Are avocados toast? A framework to analyze decision-making for emerging epidemics, applied to laurel wilt.: *Agricultural Systems*. (January (1st Quarter/Winter))

Christopher Buddenhagen and Jose Piedra and Gregory Forbes and Peter Kromann and Israel Navarrete and Sara Thomas-Sharma and Yanru Xing and Robin Choudhury and Kelsey Andersen and E. Schulte-Geldermann and Karen Garrett. Where to Invest Project Efforts for Greater Benefit: A Framework for Management Performance Mapping with Examples for Potato Seed Health. St. Paul, MN: *Phytopathology*. (May) 112, : 1431-1443.
https://apsjournals.apsnet.org/doi/full/10.1094/PHYTO-05-20-0202-R

Lilly Elliott-Vidaurri and Daniela Rivera and Adrian Noval and Robin Choudhury and Hannah Penn. Red Harvester Ant (Pogonomyrmex barbatus F. Smith; Hymenoptera: Formicidae) Preference for Cover Crop Seeds in South Texas.: *Agronomy*. (April (2nd Quarter/Spring)) 12, : 1099.
https://www.mdpi.com/2073-4395/12/5/1099/htm

Robin Choudhury and Neil McRoberts. Characterization of Pathogen Airborne Inoculum Density by Information Theoretic Analysis of Spore Trap Time Series Data.: *Entropy*. (November) 22, : 1343.
https://www.mdpi.com/1099-4300/22/12/1343

Robin Choudhury and Hong Er and Marc Hughes and Jason Smith and Grechen Pruett and Joshua Konkol and Randy Ploetz and James Marois and Karen Garrett and Ariena van Bruggen. Host density dependence and environmental factors affecting laurel wilt invasion.: *Plant Pathology*. (October (4th Quarter/Autumn)) 70, : 676-688.
https://bsppjournals.onlinelibrary.wiley.com/doi/full/10.1111/ppa.13314

Robin Choudhury and Andrew Sutherland and Matt Hengel and Michael Parrella and Walter Gubler. Imidacloprid movement into fungal conidia is lethal to mycophagous beetles.: *Insects*. (August) 11, : 496. https://www.mdpi.com/2075-4450/11/8/496

Robin Choudhury and Walter Mahaffee and Neil McRoberts and Walter Gubler. Modeling uncertainty in grapevine powdery mildew epidemiology using fuzzy logic.: *BioRxiv*.: 264622. https://www.biorxiv.org/content/10.1101/264622v1.abstract

Karen Garrett and Ricardo Alcalá-Briseño and Kelsey Andersen and Jeremy Brawner and Robin Choudhury and Eric Delaquis and Joubert Fayette and Ravin Poudel and J. Rothschild and Sarah Thomas-Sharma and Yanru Xing. Effective altruism as an ethical lens on research priorities. St. Paul, MN: *Phytopathology*. (April (2nd Quarter/Spring)) 110, : 708-722. https://apsjournals.apsnet.org/doi/abs/10.1094/PHYTO-05-19-0168-RVW

G Hughes and Robin Choudhury and Neil McRoberts. Summary measures of predictive power associated with logistic regression models of disease risk.: *Phytopathology*. 109, : 712--715.

Lewis Ziska and Bethany Bradley and Rebekah Wallace and Charles Bargeron and Joseph LaForest and Robin Choudhury and Karen Garrett and Fernando Vega. Climate change, carbon dioxide, and pest biology, managing the future: coffee as a case study.: *Agronomy*. 8, : 152.

Tyler Bourret and Robin Choudhury and Heather Mehl and Cheryl Blomquist and Neil McRoberts and David Rizzo. Multiple origins of downy mildews and mito-nuclear discordance within the paraphyletic genus Phytophthora.: *PloS One*. 13, : e0192502.

KA Garrett and RI Alcala-Briseno and KF Andersen and CE Buddenhagen and Robin Choudhury and JC Fulton and JF Hernandez Nopsa and R Poudel and Y Xing. Network analysis: A systems framework to address grand challenges in plant pathology.: *Annual Review of Phytopathology*. 56, : 559--580.

Robin Choudhury and Neil McRoberts. Temperature and light effects on in vitro germination of Peronospora effusa sporangia.: *Tropical Plant Pathology*. 43, : 572--576.

Robin Choudhury and Karen Garrett and Steven Klosterman and Krishna Subbarao and Neil McRoberts. A framework for optimizing phytosanitary thresholds in seed systems.: *Phytopathology*. 107, : 1219--1228.

Robin Choudhury and Neil McRoberts and W Gubler. First report of powdery mildew caused by Podosphaera sp. on Triadica sebifera in California.: *Plant Disease*. 101, : 389--389.

Randy Ploetz and Paul Kendra and Robin Choudhury and Jeffrey Rollins and Alina Campbell and Karen Garrett and Marc Hughes and Tyler Dreaden. Laurel wilt in natural and agricultural ecosystems: understanding the drivers and scales of complex pathosystems.: *Forests*. 8, : 48.

Robin Choudhury and ST Koike and AD Fox and A Anchieta and KV Subbarao and SJ Klosterman and Neil McRoberts. Season-long dynamics of spinach downy mildew determined by spore trapping and disease incidence.: *Phytopathology*. 106, : 1311--1318.

Robin Choudhury and ST Koike and AD Fox and A Anchieta and KV Subbarao and SJ Klosterman and N McRoberts. Spatiotemporal patterns in the airborne dispersal of spinach downy mildew.: *Phytopathology*. 107, : 50--58.

Robin Choudhury and AC Erickson and WD Gubler and Neil McRoberts. First report of powdery mildew of Erodium moschatum caused by Podosphaera cf. erodii in California.: *Plant Disease*. 99, : 1866--1866.

Robin Choudhury and Neil McRoberts and W Gubler. Effects of punctuated heat stress on the grapevine powdery mildew pathogen, Erysiphe necator.: *Phytopathologia Mediterranea*. 53, : 148--158.

F Peduto Hand and Robin Choudhury and WD Gubler. First report of Cytospora punicae causing wood canker and branch dieback of pomegranate (Punica granatum) in the United States.: *Plant Disease*. 98, : 853--853.

Robin Choudhury and P Modi and J Hanstad and R Elkins and WD Gubler. First Report of Diplodia seriata causing pear branch canker dieback in California.: *Plant Disease*. 98, : 688--688.

Conference Proceedings

Robin Choudhury and Sydney Everhart. 19th Annual Melhus Symposium: Data Driven Plant Health.: *Plant Health Progress*. (November) 22, : 433-435. https://apsjournals.apsnet.org/doi/abs/10.1094/PHP-08-21-0110-SYN

Under Submission

Journal Article, Academic Journal

Qulina Rai and Robin Choudhury and Pushpa Soti and Alexis Racelis. Rhizobial adhesives enhance nodule formation and activity in sunn hemp.: *Frontiers in Agronomy*. https://www.biorxiv.org/content/10.1101/2021.09.27.461990v1.full.pdf+html

Contracts, Grants and Sponsored Research

Engil Pereira and Chu-Lin Cheng and James Kang and Thang Pham and Wendi Williams and Thanh Thuy Vu and Joanne Nadia Rampersad-Ammons and Alejandro Fierro Cabo and Wan-Lin Chang and Debasish Bandyopadhyay and Veerachandra K Yemmireddy and Robin Alan Choudhury. Grant Pathways to NRCS and Academic Careers to Civil

Engineering and Agriculture Students (PANACEAS) USDA-NIFA-EWD-REEU Federal , 750000$ (December 2021 - December 2027)
Christopher A Gabler and Robin Alan Choudhury. Grant UTRGV 2023 AgDiscovery Summer Enrichment Program USDA APHIS OCRDI Federal , 53970$ (April 2023 - April 2024)

Robin Alan Choudhury and Alexis Racelis. Grant To support transformation of food systems through research, education, and community engagement at the University of Texas Rio Grande Valley Cynthia & George Mitchell Foundation Private , 85000$ (March 2022 - March 2023)

Neil McRoberts and Michael Hill and Robin Alan Choudhury. Grant NPDN Analysis – Identifying diagnostic capacity by network analysis of inter-state sample traffic USDA Federal , 46100$ (July 2021 - July 2022)

Awards and Honors

Scholarship/Research

Schroth Faces of the Future Award. American Phytopathological Society (August 2022)

Presentations

Romaric Mouafo-Tchinda and Aaron Sula and Berea Etherton and Manoj Choudhary and Robin Alan Choudhury and Karen Garrett."Building surveillance and mitigation strategies for the global risk of laurel wilt ".International Congress of Plant Pathology 2023, International Society of Plant Pathology, Lyon, France. (August2023)

Romaric Mouafo-Tchinda and Aaron Sulá and Berea Etherton and Manoj Choudhary and Robin Alan Choudhury and Romina Gazis and Jonathan Crane and Karen Garrett."Global surveillance and mitigation strategies for laurel wilt: protecting avocado production and forests".Plant Health 2023, American Phytopathological Society, (August2023)

Robin Alan Choudhury and Neil McRoberts and Karen Garrett."Potential Effects of Climate Change on the Efficacy of a Decision Support System".Plant Health 2023, American Phytopathological Society, Denver, CO. (August2023)

Isabel Martinez and Robin Alan Choudhury."Characterization of Sugarcane Red Rot Disease Pathogens from the Lower Rio Grande Valley".American Phytopathological Society Carribean Division Meeting 2023, American Phytopathological Society Carribean Division , South Padre Island, TX. (February2023)

Esther Oginni and Robin Alan Choudhury and Veerachandra K Yemmireddy."Utilizing cell-free Lactobacillus rhamnosus supernatants for the biological control of Salmonella thyphimurium in a hydroponic nutrient solution".Subtropical Agriculture and Environments 2023, Subtropical Agriculture and Environments Society, South Padre Island. (February2023)

Karen Garrett and Robin Alan Choudhury and Berea Etherton and Plex Sula."A Glimpse Into the Future: Predictive Climate Modeling on a Regional Scale Impacts of Global Warming on Plant Pathogens".Napa Farm Bureau Climate Change and Plant Pathogens, Napa Farm Bureau, Online. (December2022)

Robin Alan Choudhury and Tania Brenes-Aguedas and Michael Hill and Neil McRoberts."Analysis and Network Structure of Inter-State Diagnostic Sample Submissions Through the National Plant Diagnostic Network".Plant Health 2022, American Phytopathological Society, Pittsburg, PA. (August2022)

Romaric Mouafo-Tchinda and Aaron Plex Sula and Berea Etherton and Yanru Xing and Robin Alan Choudhury and Kelly Grogan and Karen Garrett."Avocado laurel wilt: Scenario analysis to support mitigation strategies before laurel wilt spreads to new regions".Plant Health 2022, American Phytopathological Society, Pittsburg, PA. (August2022)

Robin Alan Choudhury."Epidemiology and pathogen biology to improve sustainable agriculture practices in the Rio Grande Valley and beyond".Plant Health 2022, American Phytopathological Society, Pittsburg, PA. (August2022)

Berea Etherton and Robin Alan Choudhury and Ricardo Alcala-Briseno and Yanru Xing and Aaron Plex Sula and Daniel Carrillo and Jeff Wasielewski and Lucasz Stelinski and Kelly Grogan and Freddy Ballen and Trent Blare and Jonathan Crane and Karen Garrett."The influences of information exchange on collective action during emerging epidemics and invasions".Plant Health 2022, American Phytopathological Society, Pittsburg, PA. (August2022)

Robin Alan Choudhury and Neil McRoberts."Epidemiology in the Phyllosphere: Modeling Spatio-Temporal Dynamics at a Micro Scale".PHYLLOSPHERE 2022: The 11th International Symposium on Leaf Surface Microbiology, Davis, CA. (July2022)

Armida Rivera and Teresa Patricia Feria Arroyo and Robin Alan Choudhury and Engil Isadora Pujol Pereira Mikita."Revealing the Effects of Climate Change and Fungicides on Soil Microbial Communities in the Lower Rio Grande Valley, Texas".Biennial Meeting Soil Ecology Society, Soil Ecology Society, (May2022)

Joseph Rabago and Isabel Martinez and Robin Alan Choudhury."Effects of Reciprocal Grafting and Drought Stress on the Severity of Southern Blight on Cucurbit".UTRGV Engaged Scholars Symposium, UTRGV , Edinburg, TX. (May2022)

Berea Etherton and Robin Alan Choudhury and Karen Garrett."Are avocados toast? Analyzing the influential networks of decision makers managing the avocado laurel wilt epidemic".American Phytopathological Society Caribbean Division, American Phytopathological Society , San Juan, PR. (March2022)

Isabel Martinez and Robin Alan Choudhury."Effects of temperature stress on growth and sclerotia production of Sclerotium rolfsii".Subtropical Agriculture and Environment Meeting, Subtropical Agriculture and Environment Society, Weslaco, TX. (February2022)

Lilly Elliott and Isabel Martinez and Engil Pereira and Robin Alan Choudhury and Hannah Penn."House hunting: harvester ant (Pogonomyrmex barbatus) colonies in an urban gradient".Subtropical Agriculture and Environment Meeting, Subtropical Agriculture and Environment Society, Weslaco, TX. (February2022)

Paola Granados and August Luna and Juan L Gonzalez and Robin Alan Choudhury and Cheryl Harrison."Analyzing historical temperature and precipitation trends in the Lower Rio Grande Valley, TX".American Geophysical Union Fall Meeting 2021, American Geophysical Union, New Orleans, LA. (December2021)

Lilly Elliott and Robin Alan Choudhury and Hannah Penn."Red Harvester Ants Cover Crop Seed Preferences in South Texas".Entomological Society of America Annual Meeting, Entomological Society of America, Denver, CO. (November2021)

Lilly Elliott and Robin A Choudhury."Harvester ants show no preference for diseased or asymptomatic sorghum seeds".Plant Health 2021 American Phytopathological Society online meeting, (August2021)

Qulina Rai and Robin A Choudhury."Pod blight threatens commercial sunn hemp seed production in south Texas".Plant Health 2021 American Phytopathological Society online meeting., American Phytopathological Society Meeting, (August2021)

Yanru Xing and Aaron Plex Sula and Ricardo Alcala-Briseno and Berea Etherton and Robin Alan Choudhury and Kelsey Andersen and Karen Garrett."Cropland connectivity: Best practices for incorporation in geographic risk analyses".Plant Health 2021 online meeting, American Phytopathological Society, online. (August2021)

Berea Etherton and Robin Alan Choudhury and Yanru Xing and Ricardo Alcala-Briseno and Jonathan Crane and Edward Evans and Jeff Wasielewski and Lukasz Stelinski and Randy Ploetz and Kelly Grogan and Karen Garrett."Regional network analysis to understand the effects of farmer management decisions on the avocado laurel wilt epidemic in Florida".Plant Health 2021 online Meeting, American Phytopathological Society, online. (August2021)

Robin A Choudhury."Using Disease Ecology to Address Integrated Pest Management Challenges. ".Cornell University Plant Pathology & Plant-Microbe Biology Section Seminar Series, Cornell University. (April2021)

Lilly Elliott and Robin A Choudhury and Hannah J Penn."Red harvester ants cover crop seed preferences in south Texas".The Subtropical Agriculture and Environments Society online meeting, (February2021)

Rai Qulina and Alexis Racelis and Robin A Choudhury."Sunn hemp (Crotalaria juncea) as a reservoir of fungal pathogens affecting economically important crop Sorghum bicolor. ".The Subtropical Agriculture and Environments Society online meeting., (February2021)

Lilly Elliott and Robin A Choudhury and Hannah Penn."Red harvester ants cover crop seed preferences in south Texas. ".The Entomological Society of America online meeting., (November2020)

Robin A Choudhury."Using Epidemiology and Pathogen Biology to Design Sustainable Regional Management Strategies. ".University of Arkansas Department of Entomology and Plant Pathology Seminar Series, (October2020)

Robin A Choudhury."Are Avocados Toast? Laurel Wilt Threatens Global Avocado Production".University of Wisconsin Department of Plant Pathology Seminar Series, (October 6, 2020)

Robin A Choudhury."Epidemiology and Plant Pathology".West Virginia University Department of Plant and Soil Sciences Seminar Series, (October 2, 2020)

Robin A Choudhury."Using Epidemiology and Pathogen Biology to Solve Integrated Pest Management Challenges".University of Wyoming Department of Plant Sciences Seminar Series, (September2020)

Robin A Choudhury."Are avocados toast? Managing the threat of laurel wilt disease at a regional level".Plant Health 2020, American Phytopathological Society, Online. (August 8, 2020)

Robin A Choudhury."Imidacloprid Movement into Fungal Conidia is Lethal to Mycophagous Beetles".Mycological Society of America Meeting, Mycological Society of America, Online. (July 20, 2020)

Robin A Choudhury."Current Status of Laurel Wilt in Texas".Current Status of Laurel Wilt Research, Laurel Wilt Working Group, Online - Hosted in Gainesville, FL. (May 20, 2020)

Robin A Choudhury."Plant pathology and mycology for detection of pathogens and deciphering epidemiological risks".USDA APHIS - UTRGV IPM Introductory Meeting, USDA APHIS, USDA APHIS Edinburg TX Facility. (February 19, 2020)

Robin A Choudhury."Using fungal pathogen biology and epidemiology to solve challenges in plant pathology".University of Texas San Antonio Center for Emerging Infectious Diseases Seminar Series, University of Texas San Antonio Center for Emerging Infectious Diseases, San Antonio, TX. (February 14, 2020)

Robin A Choudhury."Using plant pathology to solve integrated pest management challenges".74th Annual Subtropical Agriculture and Environments Society Meeting, Subtropical Agriculture and Environments Society, Weslaco, TX. (February 8, 2020)

Robin A Choudhury."Using epidemiology and pathogen biology to solve integrated pest management challenges".UTRGV Biology Department Seminar Series, UTRGV Biology Department, Edinburg, TX. (January 30, 2020)

Robin A Choudhury and Karen Garrett."Multilayer network modeling of socio-ecological systems: Analyses to inform management strategies".5th Computational and Mathematical Population Dynamics Meeting, 2019)

Robin A Choudhury and Karen Garrett."Perfect storms: tropical cyclones and their effects on pathogen invasion and saturation".American Phytopathological Society Annual Meeting, 2019)

Robin A Choudhury."Perfect storms: regional risk to agriculture from extreme weather events".American Phytopathological Society Southern Division Meeting, 2019)

Robin A Choudhury and Karen Garrett."Carrots or sticks? How to structure incentives to manage diseases across landscapes".Florida Phytopathological Society Meeting, 2019)

Robin A Choudhury and Karen Garrett and Neil McRoberts."Using Epidemiology and pathogen biology to solve integrated pest management challenges".University of Texas, Rio Grande Valley,2019)

Robin A Choudhury and Karen Garrett."Adapting disease and pest management under climate change: scenario analysis to develop strategies and quantify uncertainty.".9th International IPM Symposium , 2018)

Robin A Choudhury and Karen Garrett and Neil McRoberts."Epidemiology and extension in complex agricultural systems".Montana State University,2018)

Robin A Choudhury and Karen Garrett and Neil McRoberts."Epidemiology in complex agricultural systems".California Polytechnic State University,2018)

Robin A Choudhury and Karen Garrett and Neil McRoberts."Epidemiology of spinach downy mildew in coastal California and other stories.".University of Georgia,2018)

Robin A Choudhury and Karen Garrett."Evaluating regional management strategies for avocado laurel wilt".International Epidemiological Workshop, 2018)

Robin A Choudhury and Karen Garrett and Neil McRoberts."A framework for optimizing phytosanitary thresholds in seed systems".CGIAR-RTB ,2017)

Robin A Choudhury."Epidemiology of spinach downy mildew in coastal California and other stories".Louisiana State University,2017)

Robin A Choudhury."Systems analysis of avocado laurel wilt disease".Florida Phytopathological Society Meeting , 2017)

Robin A Choudhury and Jonathan Crane and Karen Garrett."Impact network analysis of avocado laurel wilt".University of Florida,2017)

Robin A Choudhury and Christopher Buddenhagen and Karen Garrett."Willingness to pay choice experiments: design, bias, and examples".CGIAR-RTB ,2017)

Robin A Choudhury and Steven Koike and Neil McRoberts."Temperature and light effects on germination of Peronospora effusa".American Phytopathological Society Annual Meeting, 2016)

Robin A Choudhury and Neil McRoberts."Epidemiology of spinach downy mildew in coastal California".American Phytopathological Society Annual Meeting , 2015)

Robin A Choudhury and Neil McRoberts."Epidemiology of spinach downy mildew in coastal California".American Phytopathological Society Pacific Division Meeting , 2014)

Robin A Choudhury and Neil McRoberts and Walter Mahaffee and Walter Douglas Gubler."Modeling uncertainty in grapevine powdery mildew".American Phytopathological Society Pacific Division Meeting , 2012)

Teaching

Teaching Experience

BIOL 1406, Gen Bio I, 1 Course(s)

BIOL 1406, General Biology I, 3 Course(s)

BIOL 4199, Independent Research, 1 Course(s)

BIOL 4399, Independent Research, 3 Course(s)

BIOL 4408, Plant Pathology, 2 Course(s)

BIOL 5136, Current Issues in Biology, 1 Course(s)

BIOL 5408, Adv Plant Pathology, 4 Course(s)

BIOL 6101, Scientific Thinking, 1 Course(s)

BIOL 6285, Graduate Research, 1 Course(s)

BIOL 6308, Plant-Microbe Interactions, 2 Course(s)

BIOL 6485, Graduate Research, 1 Course(s)

BIOL 7100, Thesis Proposal, 1 Course(s)

BIOL 7150, Thesis Extension, 1 Course(s)

BIOL 7300, Thesis I, 1 Course(s)

BIOL 7301, Thesis II, 1 Course(s)

EEMS 5365, Integrated Pest Management, 1 Course(s)

EEMS 6305, Adv Sustainable Agriculture, 3 Course(s)

EEMS 6385, Graduate Research, 3 Course(s)

EEMS 7300, Thesis I, 2 Course(s)

EEMS 7301, Thesis II, 1 Course(s)

ENVR 1401, Intro to Envr Sci I, 2 Course(s)

UNIV 4000, Directed Research, 1 Course(s)

Directed Student Learning

Dissertation Co-Chair,Esther Oginni. Management of Human and Plant Pathogens in Hydroponic Systems Using Biocontrol Agents, School of Earth, Environmental, and Marine Sciences. (September 2022)

Dissertation Committee Member,Christopher De La Rosa. EFFECTIVENESS OF TARPING AND TILLAGE AS WEED MANAGEMENT STRATEGIES IN SOUTH TEXAS , School of Earth, Environmental, and Marine Sciences. (January 2021)

Dissertation Committee Chair,Isabel Martinez. Population dynamics of red rot and Mexican rice borer in sugarcane in the Lower Rio Grande Valley, Department of Biology. (September 1, 2021 - August 2023)

Dissertation Committee Member,Clarissa Mai Deleon. Use of mycoinsecticides on the control of sugarcane aphid in sorghum, Department of Biology. (September 2020 - December 2022)

Dissertation Committee Chair, Elliott. Ecological roles of harvester ants in urban and suburban systems in south Texas, School of Earth, Environmental, and Marine Sciences. (September 1, 2020 - May 15, 2022)

Dissertation Committee Member,Amandeep Singh. GROWTH KINETICS OF SALMONELLA SPP. DURING POST-HARVEST STORAGE OF FRESH AND FRESH-CUT PAPAPYA , School of Earth, Environmental, and Marine Sciences. (January 2020 - December 2021)

Dissertation Committee Member,Qulina Rai. Practical challenges of using sunn hemp (Crotalaria juncea) as a cover crop in the Lower Rio Grande Valley, School of Earth, Environmental, and Marine Sciences. (September 2019 - May 2021)

Dissertation Committee Member,Sakshi Watts. Morphological characterization and functional assessment of trichomes in Solanaceae , Department of Biology. (September 2019 - May 2021)

Service

Department Service

Committee Member, AESS committee (September 2022)

Committee Member, Hub of Prosperity Committee (September 2021 - August 2022)

Committee Member, Website Committee (January 2021 - August 2022)

Committee Co-Chair, Hub of Prosperity Committee (January 2021 - August 2021)

Committee Member, Faculty Search Committee (November 2020 - June 2021)

Development Activities Attended

• Webinar, "COS ¡Juntos al Éxito! Empowering Excellence Program", College of Science (March 22, 2023)

• Webinar, "Juntos al Exito! Empowering Excellence Program", College of Science (September 7, 2022)

• Faculty Fellowship, "COS Writing-Mentoring Program", UTRGV College of Science (June 2022 - August 2022)

• Webinar, "COS ¡Juntos al Exito! Empowering Excellence – Balancing work and life", College of Science (July 23, 2021 - July 23, 2021)

• Webinar, "COS ¡Juntos al Exito! Empowering Excellence – Community Engagement", College of Science (February 23, 2021 - February 23, 2021)

• Webinar, "COS ¡Juntos al Exito! Empowering Excellence – Empowering our pedagogical skills: Peer teaching observations and students' evaluations", College of Science (February 23, 2021 - February 23, 2021)

• Webinar, "COS ¡Juntos al Exito! Empowering Excellence – Faculty mentoring at the COS, UTRGV and beyond", College of Science (February 23, 2021 - February 23, 2021)

• Webinar, "COS ¡Juntos al Exito! Empowering Excellence – Path to R1", College of Science (February 23, 2021 - February 23, 2021)

• Workshop, "Keys to Research 5", UTRGV (2020)

• Workshop, "Keys to Research 6", UTRGV (2020)

• Workshop, "Keys to Research 7", UTRGV (2020)

• Workshop, "Keys to Research 8", UTRGV (2020)

• Workshop, "Keys to Research 9", UTRGV (2020)

• Faculty Fellowship, "College of Science Community Engaged Scholarship and Learning", UTRGV (2019)

• Webinar, "Blackboard Beginner Online Training", UTRGV (2019)

• Webinar, "Blackboard Grade Center Advanced Online Training", UTRGV (2019)

• Webinar, "Blackboard Intermediate Online Training", UTRGV (2019)

• Workshop, "Coffee Mixer for Faculty interested in Agriculture", UTRGV SARA (2019)

• Workshop, "Keys to Research #3 ", UTRGV (2019)

• Workshop, "Keys to Research 4", UTRGV (2019)

• Workshop, "Keys to Research Workshop 1 - Edinburg", UTRGV Division of Research, Graduate Studies, and New Program Development (2019)

• Workshop, "Keys to Research Workshop 2", UTRGV (2019)

• Workshop, "New Faculty Support Program Session I: Building a Mentoring Network", UTRGV Office of Faculty Success & Diversity (2019)

• Workshop, "NFSP Session II: Resource Fair: Supporting Faculty & Student Success", UTRGV Office of Faculty Success & Diversity (2019)

• Workshop, "NFSP Session III: Teaching Workshop", UTRGV Office of Faculty Success & Diversity (2019)

• Workshop, "NFSP Session IV: Preparing for Your First Year Review: Expectations & Dossier Preparation", UTRGV Office of Faculty Success & Diversity (2019)

Professional Service

Editor, Senior Editor, American Phytopathological Society Plant Disease Journal. Minneapolis, MN (January 2022)

Editor, Associate Editor, Subtropical Agriculture and Environments Journal. McAllen, TX (January 2022)

Member, USDA NIFA AFRI A1112 Research Grant Review. Washington , DC (August 24, 2022 - August 27, 2022)

Member, USDA NIFA AFRI A1181 Biosecurity Grant Panel Reviewer. Washington, DC (October 12, 2021 - October 14, 2021)

Committee Chair, American Phytopathological Society Epidemiology Committee. (August 2020 - August 2021)

Committee Co-Chair, American Phytopathological Society Epidemiology Committee. (August 2019 - August 2021)

Committee Member, American Phytopathological Society International Year of Plant Health Infographics Team. (August 2019 - December 2020)

Committee Co-Chair, American Phytopathological Society Meeting Idea Cafe Organizer. Minneapolis, MN (May 2020 - August 2020)

Committee Co-Chair, American Phytopathological Society Melhus Symposium Organization Committee. Minneapolis, MN (February 14, 2020 - August 2020)

Conference-Related, American Phytopathological Society Meeting Moderator and Organizer. Mineapolis, MN (September 2019 - August 2020)

Committee Co-Chair, Florida Phytopathological Society. (2017 - 2019)

Reviewer, Ad Hoc Reviewer, American Phytopathological Society Raymond J. Tarleton Award Review Committee. (January 2016 - May 2019)

Reviewer, Ad Hoc Reviewer, American Phytopathological Society Graduate Student Committee. (March 2014 - March 2019)

Committee Chair, American Phytopathological Society Phyllosphere Microbiology Committee. (August 2016 - August 2017)

Committee Chair, American Phytopathological Society Crop Loss and Risk Evaluation Committee. (August 2015 - August 2017)

Professional Memberships

Ecological Society of America,(2020)

Mycological Society of America, (MSA) (June 2011)

American Phytopathological Society, (APS) (June 2010)

American Society of Microbiology, (ASM) (2015 - 2020)

Public Service

Reviewer, Grant Proposal, USDA NIFA AFRI. (August 2021 - August 2021)