

Alexandria Nicole Payne

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EDUCATION

- May 2022 Texas A&M University, College Station, TX
Ph.D., Entomology; GPR: 3.769/4.0; PI: Dr. Juliana Rangel
Dissertation title: "Honey bee (*Apis mellifera*) disease ecology: In-hive pests and nutrition affect host-pathogen interactions"
- May 2016 Texas A&M University, College Station, TX
B.S., double major in Bioenvironmental Sciences and Wildlife & Fisheries Sciences- Wildlife Ecology and Conservation Concentration
GPR: 3.67/4.0, *cum laude*, BESC Honors, Honors Fellow, Research Fellow

PROFESSIONAL EXPERIENCE

- May 2022- present **Postdoctoral Research Associate** (full-time, salary)
Carl R. Woese Institute for Genomic Biology; University of Illinois Urbana-Champaign, Urbana, IL; PI: Dr. Adam Dolezal
- Aug 2018- Aug 2021 **NSF Graduate Research Fellow**
Department of Entomology; Texas A&M University, College Station, TX
- Aug 2016- May 2022 **Texas A&M Doctoral Diversity Fellow**
Office of Professional and Graduate Studies; Texas A&M, College Station, TX
- May 2015- May 2016 **Texas A&M Undergraduate Research Scholar**
Department of Entomology; Texas A&M University, College Station, TX
- Jan 2015- May 2016 **Undergraduate Research Assistant**
Department of Entomology; Texas A&M University, College Station, TX
- Jun 2014- Aug 2014 **NSF Research Experience for Undergraduates**
Environmental Science Institute; University of Texas, Austin, TX
- Mar 2013- Dec 2014 **Undergraduate Research Assistant**
Dept. of Plant Pathology & Microbiology; Texas A&M Univ., College Station, TX

RESEARCH INTERESTS

Disease ecology, virology, conservation, behavioral ecology, entomology, eusocial insects, apiculture

PEER-REVIEWED PUBLICATIONS

- Lau, P., **Payne, A. N.**, Khan, O., Buchman, M. B., & Rangel, J. (2022). The impact of COVID-19 on beekeepers in Texas and Louisiana. *Journal of Apicultural Research*, 61(3), 309-314.
- Payne, A. N.**, Shepherd, T. F., & Rangel, J. (2020). The detection of honey bee (*Apis mellifera*)-associated viruses in ants. *Scientific reports*, 10(1), 1-8.
- Payne, A. N.**, Walsh, E. M., & Rangel, J. (2019). Initial exposure of wax foundation to agrochemicals causes negligible effects on the growth and winter survival of incipient honey bee (*Apis mellifera*) colonies. *Insects*, 10(1), 19.
- Payne, A. N.**, & Rangel, J. (2018). The effect of queen insemination volume on the growth of newly established honey bee (*Apis mellifera*) colonies. *Apidologie*, 49(5), 594-605.
- Mendoza, M. R., **Payne, A. N.**, Castillo, S., Crocker, M., Shaw, B. D., & Scholthof, H. B. (2017). Expression of separate proteins in the same plant leaves and cells using two independent virus-based gene vectors. *Frontiers in Plant Science*, 8, 1808.

NON- PEER REVIEWED PUBLICATIONS AND PUBLISHED ABSTRACTS

- Bixby, M., **Payne, A. N.**, Polinsky, M., Guarna, M., Rangel, J. (2022). The Impacts of Covid-19 on Beekeeping Operations in Canada and the United States. *American Bee Journal*, Vol. 162, No. 2.

Simone-Finstrom, M., Niño, E. L., Flenniken, M. L., Arrowsmith, H., & Wu-Smart, J. (2020). Proceedings of the 2019 American Bee Research Conference (ABRC). *Insects*, 11(2), 88.

Simone-Finstrom, M. (2018). Proceedings of the 2018 ABRC. *Bee World*, 95(2), 47-72.

Simone-Finstrom, M. (2016). Proceedings of the 2017 ABRC. *Bee World*, 93(4), 104-127.

Payne, A. N. (2016). Do more promiscuous honey bee queens produce healthier hives? *Explorations: The Texas A&M Undergraduate Journal*, Volume 8 (38-40).

Payne, A. N. (2016). The effects of honey bee (*Apis mellifera*) queen insemination volume on colony growth. Undergraduate Research Scholars thesis, TAMU OAK Trust Digital Repository.

FELLOWSHIPS, GRANTS, AND SCHOLARSHIPS [Total: \$379,741]

Nov 2021	Foundation for the Preservation of Honey Bees Scholarship [\$5,000]
Mar 2020	North American Pollinator Protection Campaign Research Grant [\$10,000]
Nov 2019	Aggie Women in Entomology Travel Grant [\$350]
Oct 2019	Texas A&M College of Agriculture and Life Sciences (COALS) Student Council Development Grant; written on behalf of the Aggie Women in Entomology [\$1,000]
Aug 2019	Texas A&M University OGAPS Research and Presentation Grant, [\$500]
Mar 2019	Eastern Apicultural Society Foundation for Honey Bee Research [\$6,000]
Nov 2018	Louisiana Beekeepers Association Grant for Applied Honey Bee Research [\$5,000]
Mar 2018	NSF Close the Gap Career Fellowship Program Development Grant [\$1,000]
Mar 2018	College of Agriculture and Life Sciences Student Council Development Grant; written on behalf of Aggie Women in Entomology [\$1,100]
Nov 2017	TAMU Sloan Program for Exemplary Mentoring Development Grant [\$1,000]
Jan 2017	NSF Close the Gap Career Fellowship Program Development Grant [\$1,000]
Mar 2016	NSF Graduate Research Fellowship Program [\$138,000]
Mar 2016	Texas A&M University Diversity Fellowship [\$104,975]
Mar 2016	College of Agriculture and Life Sciences Merit Fellowship [\$101,316- declined]
Mar 2016	Texas A&M Lechner Graduate Fellowship [\$2,500]
Mar 2016	TAMU Sloan Program for Exemplary Mentoring [\$1,000]

PROFESSIONAL AWARDS AND HONORS

*ESA = Entomological Society of America

Apr 2022	ESA Southwestern Branch John Henry Comstock Graduate Student Award
Apr 2022	ESA Southwestern Branch Meeting- PhD Student Poster Competition; 3 rd place [\$50]
Feb 2022	Texas A&M Entomology Dept. Outstanding Graduate Student Award, PhD category [\$500]
Jan 2022	American Bee Research Conference- Student Talk Comp., virtual; Best Paper [\$300]
June 2021	ESA Southwestern Branch Meeting- Student Paper Competition, virtual; 3 rd place [\$50]
Apr 2021	Texas A&M University Montgomery Award, Graduate and Professional School [\$1000]
Dec 2020	Vice Chancellor's Award in Excellence for Graduate Research, Texas A&M AgriLife [\$700]
Apr 2020	ESA Joint North Central Branch and Southwestern Branch Meeting, virtual; 1 st place
Jan 2020	TAMU Dept. of Entomology photo salon contest- Arthropods in Action category [\$50]
Nov 2019	ESA annual meeting- Student Poster Competition, St. Louis, MO; 1 st place [\$75]
Jan 2019	American Bee Research Conference- Student Talk Comp., Tempe, AZ; Best Paper [\$200]
Nov 2018	ESA annual meeting- Student Paper Competition, Vancouver, BC, Canada; 1 st place [\$75]
May 2018	Houston Regional Ecology and Evolution Student Symposium, University of Houston, Houston, TX; Best Student Presentation [\$50]
Apr 2018	Ecological Integration Symposium- Grad Student Oral Comp., TAMU, TX; 1 st place [\$100]
Mar 2018	ESA SW Branch Meeting- Student Paper Comp., Albuquerque, NM; 1 st place [\$200]
Nov 2017	ESA annual meeting- Student Paper Competition, Denver, CO; 1 st place [\$75]

- Aug 2017 TAMU Entomology Department- Graduate Student Forum, TAMU, TX; 3rd place [\$100]
- Jan 2017 American Bee Research Conference- Student Paper Competition, Galveston, TX; Best Student Paper [\$200]
- Sept 2016 International Congress of Entomology- Student Paper Comp., Orlando, FL; 1st place [\$75]
- Mar 2016 TAMU Student Research Week- Oral Comp., TAMU, College Station, TX; 1st place [\$300]
- Feb 2016 Texas A&M COALS Senior Merit Award, TAMU, College Station, TX
- Mar 2015 TAMU Student Research Week- Poster Comp., TAMU, College Station, TX.; 1st place [\$300]
- Sept 2014 Bioenvironmental Sciences Student Poster Symposium, TAMU, TX; 2nd place [\$75]

PEER-REVIEWER OF MANUSCRIPTS FOR SCIENTIFIC JOURNALS

- [3] *Scientific Reports*
- [2] *Molecular ecology*
- [1] *Insects*

TEACHING EXPERIENCE AND INVITED SPEAKER PRESENTATIONS

- [31] Illinois State Beekeepers Fall Meeting; Springfield, IL. "Bees, Disease, and Beek Strategies." Nov 4, 2023; **Invited speaker**
- [30] Rutgers University Entomology Seminar Series; New Brunswick, NJ. "Honey bees (*Apis mellifera*) within the disease pyramid." Sept 15, 2023; **Invited speaker**
- [29] Heart of Illinois Beekeeping Association field day; Peoria, IL. "Honey bee pathogens & pests." June 10, 2023; **Invited speaker**
- [28] University of Illinois Urbana-Champaign Entomology Colloquium; Urbana, IL. "Honey bee (*Apis mellifera*) disease ecology: In-hive pests and nutrition impact host-pathogen interactions." Oct 24, 2022; **Invited speaker**
- [27] Southwestern Branch, Entomological Society of America; Fort Worth, TX. "Emerging problems in entomology in the southwest: global change, biodiversity, land use change, and invasive species" member symposium; April 19th, 2022; **Invited speaker**
- [26] Prospective Entomology Ph.D. Student Recruitment seminar at TAMU; College Station, TX. "Improving honey bee tolerance to Deformed wing virus infection by optimizing macronutrient ratios within artificial diets." Feb 11, 2022; **Invited speaker**
- [25] Honey Bee Biology (ENTO 320) at TAMU; College Station, TX. Spring 2022; **Teaching Assistant**
- [24] At Home Beekeeping Webinar Series, virtual. "Honey bee viruses and best beekeeping practices." Nov 31, 2021; **Invited speaker**
- [23] Entomological Society of America; Denver, CO. "Highlighting Women's Research: Insect Adaptations to a Changing World" member symposium; Nov 2, 2021; **Invited speaker and panelist**
- [22] Williamson County Area Beekeepers Association; Georgetown, TX. "Honey bee pathogens and best beekeeping practices." Oct 26, 2021; **Invited speaker**
- [21] Texas A&M Wildlife Disease Association; Bryan, TX. "Honey bee pathogens, the environment, and society." Oct 14, 2021; **Invited speaker**
- [20] IPM 4 Bees Midwest Working Group; virtual. "An integrative approach to understanding the interactions of honey bee nutrition and pathogens." Oct 7, 2021; **Invited speaker**
- [19] Brazos Valley Bee School; College Station, TX. "Honey Bee Viruses." Sept 25, 2021; **Invited speaker**
- [18] Insects in Human Society (ENTO 322) at TAMU; College Station, TX. Fall 2021; **Teaching Assistant**
- [17] Honey Bee Biology (ENTO 320) at TAMU; College Station, TX. Fall 2021; **Teaching Assistant**
- [16] World of Insects (11:370:202) at Rutgers University; virtual. "Beneficial Insects and Conservation." Apr 5, 2021; **Guest lecturer**

- [15] Brazos Valley Beekeeper's Association (BVBA) meeting; Bryan, TX. "Honey bee pathogens and pests." Feb 18, 2020; **Invited speaker**
- [14] Disease Ecology (ENTO 425) at TAMU; College Station, TX. "Bees and Disease." Jan 28, 2020; **Guest lecturer**
- [13] Disease Ecology (ENTO 425) at TAMU; College Station, TX. Spring semester 2020; **Teaching Assistant**
- [12] Pathogens, the Environment, and Society (BESC 314): TAMU, College Station, TX. "Honey bee pathogens and social immunity." Oct 1, 2019; **Guest lecturer**
- [11] Texas Beekeepers Association (TBA) Summer Clinic; Conroe, TX. "Who got me sick? Transmission routes of honey bee viruses." June 20, 2019; **Instructor**
- [10] Louisiana Beekeepers Association 58th Annual Convention; Pineville, LA. "Optimizing macronutrient ratios in honey bee pollen substitutes for pathogen defense." Dec 5-7, 2019; **Invited speaker**
- [9] Ecology and Evolutionary Biology Seminar Series; College Station, TX. "Spillover in eusocial insects: Detection of honey bee (*Apis mellifera*) associated viruses in ants." Dec 3, 2018; **Invited speaker**
- [8] College of Agriculture and Life Sciences Program for Exemplary Mentoring (COALS PEM) Senior Graduate Student Panel; College Station, TX. Oct 24 2018; **Invited speaker and panelist**
- [7] Brazos Valley Bee School; College Station, TX. "Who got me sick? Transmission routes of honey bee viruses." Sept 22, 2018; **Invited speaker**
- [6] East Texas Beekeepers Association; Whitehouse, TX. "Varroa and honey bee viruses." Sept 7, 2018; **Invited speaker**
- [5] Missouri State Beekeepers Association's Spring Conference; Warrensburg, MO. "Who got me sick? Transmission routes of honey bee viruses" and "What happens when a bee gets sick?" Mar 2-3, 2018; **Invited keynote speaker**
- [4] Graduate Student Recognition & Award Seminar; TAMU, TX. "Are honey bees (*Apis mellifera*) feeling antsy? Ants as possible reservoirs of honey bee pathogens." Feb 15, 2018; **Invited speaker**
- [3] Brazos Valley Bee School; College Station, TX. "Honey Bee Basics." Sept 23, 2017; **Invited speaker**
- [2] Walker County Bee Association; Huntsville, TX. "The external anatomy of honey bees." Jul 27, 2017; **Invited speaker**
- [1] Williamson County Bee Club monthly meeting; Georgetown, TX. "Honey bee pathogens." Jun 22, 2017; **Invited speaker**

RESEARCH SYMPOSIA AND CONFERENCE PRESENTATIONS (* presenting author)

- [40] **Payne AN***, Vernier C, Harwood G, Dolezal A. "The impact of Israeli acute paralysis virus on the gut microbiome of honey bees." Entomological Society of America; National Harbor, MD; Nov 7, 2023
- [39] **Payne AN***, Lau P, Garcia C, Gomez J, Rangel J. "Host-pathogen interactions of honey bees (*Apis mellifera*) and their associated viruses." Entomological Society of America's annual meeting; Vancouver, British Columbia, Canada; Nov 16, 2022
- [38] **Payne AN***, Garcia C, Gomez J, Lau PW, Boncristiani H, Rangel J. "Improving honey bee tolerance to *Deformed wing virus* infection by optimizing macronutrient ratios within artificial diets." American Bee Research Conference annual conference; virtual; Jan 13-14, 2022
- [37] **Payne AN***, Garcia C, Gomez J, Lau PW, Rangel J. "Using nutrition to mitigate the effects of pathogen infection in honey bees." The American Bee Federation Conference and Tradeshow 2022; Las Vegas, NV; Jan 5-8, 2022 (poster)
- [36] **Payne AN***, Garcia C, Gomez J, Lau PW, Rangel J. "An integrative approach to understanding the interactions of honey bee nutrition and pathogens." Entomological Society of America, Highlighting Women's Research: Insect Adaptations to a Changing World Member Symposium; Denver, Colorado; Nov 2021

- [35] **Payne AN***, Garcia C, Gomez J, Lau PW, Rangel J. "Improving honey bee tolerance to *Nosema* infection by optimizing macronutrients within artificial diets." ESA Southwestern Branch Meeting; virtual meeting; June 2021
- [34] Garcia C*, Gomez J*, **Payne AN**, Lau PW, Rangel J. "Honey bee (*Apis mellifera*) macronutrient regulation and Deformed wing virus tolerance." TAMU Student Research Week; virtual; Apr 2021
- [33] **Payne AN***, Lau PW, Gomez J, Garcia C, Rangel J. "Honey bee tolerance to DWV infection when fed diets with varying macronutrient ratios." American Bee Research Conference; virtual; Jan 2021
- [32] Lau PW*, Lesne P, **Payne AN**, Garcia C, Gomez J, Behmer S, Rangel. "Honey bee nutritional preferences are shaped by macronutrients in diets." American Bee Research Conference annual conference; virtual meeting; Jan 2021
- [31] **Payne AN***, Martin J, Buchman L, Peirce E, Siqueira da Cunha J. "Highlighting Women's Research: Sustaining Biodiversity & Conservation." Entomological Society of America annual meeting-member Symposium; virtual meeting; Nov 2020
- [30] **Payne AN***, Lau PW, Garcia C, Gomez J, Rangel J. "Honey bee tolerance to *Nosema* infection when fed diets with varying macronutrient ratios." Entomological Society of America annual meeting; virtual meeting; Nov 2020
- [29] Gomez J*, **Payne AN**, Lau PW, Garcia C, Rangel J. "Determining the effects of nutrition on honey bee (*Apis mellifera*) pathogen defense against Deformed wing virus." Entomological Society of America annual meeting; virtual meeting; Nov 2020
- [28] Garcia C*, **Payne AN**, Gomez J, Lau PW, Rangel J. Honey bee (*Apis mellifera*) macronutrient regulation: Nurse bee nutritional preferences for protein and lipids." Entomological Society of America annual meeting; virtual meeting; Nov 2020
- [27] Gomez J*, **Payne AN**, Lau PW, Garcia C, Rangel J. "Determining the effects of nutrition on honey bee (*Apis mellifera*) pathogen defense against Deformed wing virus." Entomological Society of America Joint North Central Branch and Southwestern Branch; virtual; April 6, 2020 (virtual poster)
- [26] Garcia C*, Gomez J, **Payne AN**, Lau PW, Lesne P, Behmer S, Rangel J. "Honey bee macronutrient regulation: Nurse bee nutritional preferences for proteins and lipids." Entomological Society of America Joint North Central Branch and Southwestern Branch student comp.; virtual; April 6, 2020
- [25] **Payne AN***, Rangel J. "Interspecies virus transmission between ants and honey bees (*Apis mellifera*)." Entomological Society of America Joint North Central Branch and Southwestern Branch meeting student competition; virtual; April 6, 2020 (virtual poster)
- [24] Garcia C*, Gomez J*, **Payne AN**, Lau PW, Lesne P, Behmer S, Rangel J. "Optimizing macronutrient ratios in diets for honey bee pathogen defense." Texas A&M LAUNCH Undergraduate Symposium; College Station, TX; Feb 2020
- [23] Garcia C*, Lau PW, **Payne AN**, Gomez J, Lesne P, Behmer S, Rangel J. "Honey bee macronutrient regulation: Nurse bee nutritional preferences for proteins and lipids." Aggie Women in Entomology Mentorship in Entomology Symposium; College Station, TX; Feb 2020
- [22] **Payne AN***, Rangel J. "Interspecies virus transmission between ants and honey bees (*Apis mellifera*)." Texas A&M's Life Sciences Recruiting Symposium; College Station, TX; Feb 2020 (poster)
- [21] Lau PW*, **Payne AN**, Garcia C, Gomez J, Lesne P, Behmer S, Rangel J. "Honey bee macronutrient regulation: A rational approach on honey bee ecology and physiology." Texas A&M University Entomology Graduate Student Recruitment Week; College Station, TX; Jan 2020
- [20] Lau PW*, **Payne AN**, Garcia C, Gomez J, Lesne P, Behmer S, Rangel J. "Honey bee macronutrient regulation: A rational approach on honey bee ecology and physiology." American Bee Research Conference; Schaumburg, IL; Dec 2019
- [19] **Payne AN***, Lau PW*, Garcia C, Gomez J, Lesne P, Behmer S, Rangel J. "Optimizing macronutrient ratios in honey bee pollen substitutes and how we can apply this information for pathogen defense." Louisiana beekeepers Association 58th Annual Convention; Pineville, LA; Dec 2019

- [18] Lau PW*, **Payne AN**, Garcia C, Gomez J, Lesne P, Behmer S, Rangel J. "Honey bee macronutrient regulation: Nurse bee nutritional preferences for proteins and lipids." Entomological Society of America's annual meeting; St. Louis, MO; Nov 2019
- [17] Lau PW*, **Payne AN**, Garcia C, Gomez J, Lesne P, Behmer S, Rangel J. "Using honey bee foraging preferences to understand their nutritional needs." Entomological Society of America's annual meeting- Member symposium: Emerging Topics in Honey Bee Research: Growing Needs to Communicate and Advocate for Research-Based Information; St. Louis, MO; Nov 2019
- [16] **Payne AN***, Rangel J. "Interspecies virus transmission between ants and honey bees (*Apis mellifera*)" Entomological Society of America annual meeting; St. Louis, MO; Nov 2019
- [15] Lau PW*, **Payne AN**, Gomez J, Garcia C, Behmer S, Lesne P, Rangel J. "Understanding honey bee (*Apis mellifera*) dietary preferences and nutrient regulation to improve beekeeping pollen substitutes." Texas A&M Graduate Student Forum; College Station, TX; July 2019
- [14] **Payne AN***, Rangel J. "Spillover in eusocial insects: Detection of honey bee (*Apis mellifera*) associated viruses in ants," American Bee Research Conference (ABRC); Tempe, AZ; Jan 11, 2019
- [13] **Payne AN***, Rangel J. "Spillover in eusocial insects: Detection of honey bee (*Apis mellifera*) associated viruses in ants," Entomological Society of America's annual meeting; Vancouver, Canada; Nov 10, 2018
- [12] **Payne AN***, Rangel J. "Synergistic effects of in-hive miticides and agro-chemicals on honey bee (*Apis mellifera*) colony growth," Houston Regional Ecology and Evolution Student Symposium; Houston, TX; May 4, 2018
- [11] **Payne AN***, Rangel J. "Synergistic effects of in-hive miticides and agro-chemicals on honey bee (*Apis mellifera*) colony growth," Ecological Integration Symposium; College Station, TX; Apr 6, 2018
- [10] **Payne AN***, Rangel J. "Synergistic effects of in-hive miticides and agro-chemicals on honey bee (*Apis mellifera*) colony growth," SW Branch ESA meeting; Albuquerque, NM; Mar 27, 2018
- [9] **Payne AN***, Rangel J. "Are honey bees feeling antsy? Ants as possible reservoirs of honey bee pathogens," American Bee Research Conference annual meeting; Reno, NV; Jan 9, 2018
- [8] **Payne AN***, Rangel J. "Are honey bees feeling antsy? Ants as possible reservoirs of honey bee pathogens," Entomological Society of America annual meeting; Denver, CO; Nov 6, 2017
- [7] **Payne AN***, Rangel J. "The effects of honey bee (*Apis mellifera*) queen insemination volume on colony growth," American Bee Research Conference annual meeting; Galveston, TX; Jan 12, 2017
- [6] **Payne AN***, Rangel J. "The effects of honey bee (*Apis mellifera*) queen insemination volume on colony growth," International Congress of Entomology; Orlando, FL; Sept 26, 2016
- [5] **Payne AN***, Rangel J. "The effects of honey bee (*Apis mellifera*) queen insemination volume on colony growth," Ecological Integration Symposium; College Station, TX; Apr 1, 2016
- [4] **Payne AN***, Rangel J. "The effects of honey bee (*Apis mellifera*) queen insemination volume on colony growth," Texas A&M Student Research Week; College Station, TX; Mar 29, 2016
- [3] **Payne AN***, LeBrun EG. "The interconnectivity of Tawny crazy ant (*Nylanderia fulva*) nests in relation to population density," Texas A&M Student Research Week; College Station, TX; Mar 25, 2016 (poster)
- [2] **Payne AN***, LeBrun EG. "The interconnectivity of Tawny crazy ant (*Nylanderia fulva*) nests in relation to population density," Council on Undergraduate Research's NSF Research Experience for Undergraduates Symposium; Arlington, VA; Oct 27, 2014 (poster)
- [1] **Payne AN***, LeBrun EG. "The interconnectivity of Tawny crazy ant (*Nylanderia fulva*) nests in relation to population density," BESC Poster Symposium; College Station, TX; Sept 12, 2014 (poster)

UNDERGRADUATE STUDENT MENTORSHIP [total students mentored= 11]

† Underrepresented minority, ¹ first generation college student

Ethnic or racial identity is determined by the self-identification of the student

2023-present	Madeline Prideaux
2022-2023	Faith Losbanes and Caitlin Lennon-Puthoff
2021-2022	Caleb Rodriguez† and Jackson Wingert
2020-2021	MaryBeth Buchman, Omar Khan†, Kendall Brown, and Aishwa Gohil
2018-2021	Cora Garcia† and Jordan Gomez†

ACADEMIC AND PROFESSIONAL MEMBERSHIP/LEADERSHIP APPOINTMENTS

2020- 2022	IUSSI-NAS Diversity, Equity, Inclusion, and Justice ad hoc committee
2017- present	International Union for the Study of Social Insects, North American Section
2016- present	Entomological Society of America
2016- present	American Association of Professional Apiculturists
2016- present	American Beekeeping Federation
2016- present	Texas Beekeepers Association
2019- 2020	Texas A&M Entomology Department Education Committee
2017- 2022	Texas A&M Aggie Women in Entomology
2016- 2022	Texas A&M Entomology Graduate Student Organization
2016- 2018	Texas A&M NSF Close the Gap Career Fellowship Program
2012- 2016	The Council on Undergraduate Research

NON-PROFIT/ UNIVERSITY ORGANIZATION INVOLVEMENT

Feb 2019- Feb 2020	Aggie Women in Entomology (AWE), President
Sept 2017- Jan 2019	Aggie Women in Entomology, founding board member and Financial Director
Sept 2017- Jan 2019	Aggie Women in Entomology: Mentor-Mentee Program, Mentor
Sept 2016- present	Entomology Graduate Student Organization (EGSO), Member
Sept 2016- May 2018	TAMU C.O.A.L.S. Sloan Program for Exemplary Mentoring, Member/Mentor
May 2015- May 2016	Human Environmental Animal Team Nonprofit Organization, President
Jan 2013- May 2015	Human Environmental Animal Team Nonprofit Organization, Treasurer
May 2013- May 2016	Texas A&M University Scholars Program, Member
Apr 2014- May 2015	College of Agriculture and Life Sciences Student Council, Representative

UNIVERSITY AND DEPARTMENTAL SERVICE ACTIVITIES

- [12] Aggie Women in Entomology organized symposia titled, “Highlighting Women's Research: Sustaining Biodiversity & Conservation”; Entomological Society of America member symposium, ESA 2020 annual meeting, virtual conference, Nov 2020; co-organizer
- [11] Aggie Women in Entomology Undergrad Mentorship Symposium, TAMU, Feb 7, 2020, organizer
- [10] Aggie Women in Entomology organized symposia, “Promoting Women’s Research: Global Food Security”; ESA 2019 annual meeting, member symposium, St. Louis, MO, Nov 2019; co-organizer
- [9] TAMU College of Agricultural and Life Sciences Tailgate, AgriLife Center. Oct 8, 2018, volunteer
- [8] NSF GRFP Q&A panel for student applicants, TAMU, College Station, TX. Sept 26, 2018, panelist
- [7] Expanding Your Horizons- STEM conference for 6th grade girls, TAMU, TX. Dec 2, 2017, volunteer
- [6] Southwood Valley Elementary- Super Science Night, College Station, TX. Apr 6, 2017, volunteer
- [5] TAMU’s Student Research Week, College Station, TX. Mar 28, 2017, judge
- [4] TAMU’s Ecological Integration Symposium (EIS), College Station, TX. Mar 24, 2017; judge
- [3] TAMU College of Agricultural and Life Sciences Tailgate, AgriLife Center. Oct 29, 2016, volunteer
- [2] NSF GRFP Q&A panel for student applicants, TAMU, College Station, TX. Sept 23, 2016, panelist
- [1] Aggie honey extraction and bottling event, Honey Bee Facility, TAMU. Aug 29, 2015, volunteer

EXTERNAL OUTREACH ACTIVITIES (LOCAL, STATE, AND NATIONAL LEVEL)

- [17] George West Highschool, George West, TX. Nov 19, 2020, virtual guest speaker

- [16] Wish Upon a Butterfly, Brazos Valley Museum of Natural History, Bryan, TX. Jul 27, 2019, volunteer
- [15] Art of Queen Rearing Workshop, Honey Bee Facility, Bryan, TX. May 18, 2019, speaker & volunteer
- [14] Girl Scout STEAM Fair, Cypress, TX. May 11, 2019, volunteer [139 girl scouts]
- [13] 11th Annual Central Texas Bee School, Brenham, TX. Mar 23, 2019, volunteer
- [12] Boonville Days: Texas Heritage Festival, Bryan, TX. Oct 13, 2018, volunteer
- [11] Texas Beekeepers Association (TBA) Summer Clinic, Conroe, TX. June 30, 2018, volunteer
- [10] Art of Queen Rearing Workshop, Honey Bee Facility, Bryan, TX. May 5, 2018, speaker & coordinator
- [9] Wish Upon a Butterfly, Brazos Valley Museum of Natural History, Bryan, TX. Jul 29, 2017, volunteer
- [8] Central Texas Beekeepers Association's 9th Annual Bee School, Brenham, TX. Mar 25, 2017, volunteer
- [7] Texas Master Beekeeper Program, TAMU, College Station, TX. Feb 2, 2017, instructor and content creator for exam
- [6] Wish Upon a Butterfly, Brazos Valley Museum of Natural History, Bryan, TX. Jul 30, 2016, volunteer
- [5] International Congress of Entomology (ICE) Conference, Orlando, FL. Sept 27, 2016, volunteer
- [4] Art of Queen Rearing Workshop, Honey Bee Facility, Bryan, TX. May 7, 2016, volunteer
- [3] Central Texas Beekeepers Association's 8th Annual Bee School, Brenham, TX. Apr 16, 2016, volunteer
- [2] Wish Upon a Butterfly, Brazos Valley Natural History Museum, Bryan, TX. Jul 25, 2015, volunteer
- [1] "Getting involved in research"- Walnut High School, Walnut, CA. May 21, 2015, guest speaker

SHORT COURSES/ WORKSHOPS/ TRAININGS FOR RESEARCH & PROFESSIONAL DEVELOPMENT

- [6] 'Virus propagation and infection in honey bees' training from Dr. Humberto Boncristiani in the laboratory of Dr. Jamie Ellis, University of Florida, FL; September 2019
- [5] Open Source Open Science (OSOS) R Workshop, College Station, TX. Aug 31- Sept 1, 2018
- [4] NSF Alliances for Graduate and the Professoriate Conference, College Station, TX. Jul 27, 2018
- [3] Women in Science and Engineering Annual Conference, TAMU, College Station, TX. Feb 23, 2018
- [2] G.R.A.D. Aggies Professional Development Basic Certificate, Courses included: EndNote Basics, EndNote Advanced, Internationalize your Research and Perspectives, Literature Reviews 101, Developing a Literature Matrix, and Use of ArcGIS, TAMU, College Station, TX. Apr 19, 2017
- [1] NSF Close the Gap Career Workshop Bootcamp, TAMU, College Station, TX. Jan 11 & 13, 2017

OTHER:

Con conversationally proficient in Spanish

Last revision: December 15, 2023