

Curriculum Vitae

Megan R. Wise de Valdez, M.S., Ph.D.

Professor of Biology & Chair of the Department of Natural Sciences

Texas A&M University – San Antonio

EDUCATIONAL BACKGROUND

- 2005-2010 Postdoctoral Research Associate, Colorado State University Arthropod-Borne Infectious Diseases Laboratory. Research Advisor: Dr. William Black IV
- 2000-2005 Ph.D. in Zoology, Colorado State University
Advisor: Dr. Janice Moore
Dissertation Title: Parasitoid-induced behavioral alterations in *Aedes aegypti* mosquito larvae infected with mermithid nematodes (Nematoda: Mermithidae)
- 1996-1998 M.S. in Biology, University of Nebraska-Lincoln
Advisor: Dr. John Janovy, Jr.
Thesis Title: Host specificity in *Metamera sillisenorum*, N. Sp. A gregarine parasite of the leech *Helobdella triserialis* with notes on transmission dynamics
- 1993-1995 B.S. in Biology, University of Nebraska-Lincoln

ACADEMIC and PROFESSIONAL POSITIONS

- 2023-current Chair, Department of Natural Sciences, Texas A&M University -San Antonio
- 2023-current Professor, Biology Program, Texas A&M University-San Antonio
- 2023-2023 Interim Chair – Department of Life Sciences, Texas A&M University -San Antonio
- 2016-2023 Associate Professor, Biology Program, Texas A&M University-San Antonio
- 2011-2023 Program Coordinator, Biology, Texas A&M University-San Antonio
- 2010-2016 Assistant Professor, Biology Program, Texas A&M University-San Antonio
- 2002-2009 Adjunct Faculty, Department of Natural Sciences, Frontrange Community College
- 2002-2005 Instructor, Department of Biology, Colorado State University
- 2000-2005 Graduate Teaching Assistant, Department of Biology, Colorado State University
- 1998-2000 Research Scientist II, Schering-Plough Animal Health Research & Development: Poultry parasite and virus vaccines
- 1999-2000 Volunteer Faculty, Metropolitan Community College, Omaha NE: English as a second language courses.
- 1994-1998 Undergraduate and Graduate Teaching Assistant, School of Biological Sciences, University of Nebraska-Lincoln

SIGNIFICANT AWARDS

- 2022 **Piper Professor** - The Piper Professor Award recognizes professors for outstanding academic, scientific, and scholarly achievement and for dedication to the teaching profession. All universities and colleges, public or private, in the state of Texas may submit a single nominee. Only 10 are awarded the Piper Professorship each year. I was the first Piper Professor from Texas A&M University – San Antonio.
- 2018 **Rising Star** – The Rising Star is awarded by the San Antonio Women’s Chamber of Commerce Constellation of Stars to honor those that have a small sphere of influence, but go out of their way to Advocate, Connect, or Empower others in that circle.
- 2011 **E. Kika de la Garza Fellow** – Selected nationally by the United States Department of Agriculture - links USDA and Hispanic-Serving Institutions to help build awareness in Hispanic communities of USDA services, resources, and employment opportunities.

ADMINISTRATIVE LEADERSHIP

Departmental Development Initiatives

2025

- Solidified plans for out-door teaching space, including additional greenhouse facilities
- Maintenance & Repair Budget analysis for Chemistry & Biology
- Managed the pilot of a new departmental 5-point rubric for annual evaluations
- Leading faculty through new governmental policies that affect research, grant acquisitions, data reporting, classroom discussions, and overall morale
- Developed a departmental IEP with faculty input.

2023-2024

- Instituted monthly departmental meetings to create a more cohesive intradepartmental team.
- Instituted monthly program meetings for the Chemistry & Water program, these two programs did not previously hold meetings.
- Instituted bi-weekly meetings with each of the biology and chemistry laboratory managers regarding budgetary spending.
- Helped to transition teams from Departments of Life Sciences and MPES to Departments of Natural Sciences
- Created a process for office assignments that is wholistic instead of rank and seniority.
- Shared departmental and programmatic budgets with faculty in order to get buy-in to how it is spent and setting goals for larger purchases of equipment.

Curriculum & Instructional Initiatives

- Submitted new Undergraduate **Academic Program in Biomedical Sciences**
- Moved **summer lecture sections online** to increase enrollment during a counting year.
- Set up a **3-day workshop** with CAI for Natural Sciences faculty teaching online in the summer.

- Worked with **CAI** to have Natural Sciences faculty **pilot Blackboard Ultra** for the campus-wide community.
- Created a **cross-program semester scheduling initiative** to improve course availability for Biology and Chemistry majors.
- Transitioned faculty to the **new Curriculum approval calendar** and ensured timely completion.
- Purchased, organized, and **trained faculty on six iClicker kits** for use in large classes.
- Solidified membership and **organized the Chemistry Advisory Committee Meeting**.

Faculty Hiring, Development, & Mentorship

- **Hired three faculty** for the department (two in Biology and one in Chemistry) and negotiated start-up in collaboration with the dean.
- Initiated a **formal faculty mentorship program** pairing tenured faculty with new tenure-track faculty.
- Encouraged and participated in a **TAMU Graduate Faculty Mentorship Academy** series.
- Finalized the **Department of Natural Sciences Promotion & Tenure Document**.
- Created a **departmental Faculty Development Funds budget committee** to review and approve requests.

Student Support & Engagement

- Worked with **Financial Aid/Scholarships** to develop **student development, mentorship, and travel awards** for Natural Sciences students.
- Created a **rotating faculty volunteer roster** for recruitment events.

Budgeting & Resource Management

- Worked with the **Dean to secure funding** for:
 - Dive Safety Officer and Dive Program
 - Graduate Teaching Assistant tuition (Biology)
 - International Student funding (Water & Biology)
 - Post-award administrative position
- Worked with **Laboratory Managers** to generate an **end-of-year spending itemization**.
- Helped in the development of the **Outdoor Classroom and Greenhouse spaces**

SERVICE AS CHAIR

2025	Arts & Sciences Showcase subcommittee
2025	Strategic Scheduling Team – University Wide
2025	External Reviewer – Biology Program Review City College of New York, April 28-31 Queens, NY
2025	Facilitator – Seminar for New Department Chairs, Council of Colleges of Arts & Sciences, Witchita, KS August 2025
2025	Transfer Student Faculty Panel, January
2024	Adjunct Pay Issues – Task Force

- 2024 Presentation to A&M-SA Foundation Board for “Mission Moment”, “Urban Mosquito Ecology and Urban Undergraduates: A Match Made in San Antonio, TX”, Used my research to begin discussion on supporting researchers in Natural Sciences. August, 2024
- 2024 Jaguar Days, Ran the Natural Sciences Booth, March
- 2024 Student Lunches, New Student Orientation (at least 4 times during summer)
- 2024 Represented Natural Science Curriculum for ABET accreditation
- 2023-current Espada Tract Development Team
- 2023 College of Arts & Sciences Human Resources Task force
- 2023 Developed new “intent to apply” form – not ultimately accepted
- 2023 Created calendar of deadlines for COAS
- 2023 Writing Across the Curriculum Committee – move to accept University-wide
- 2023 Chaired the search committee for the Natural Sciences Administrative Associate.
- 2023 Chaired the search committee for Biology Laboratory Manager

PROFESSIONAL DEVELOPMENT IN LEADERSHIP

- 2025 HERS Leadership Institute and LUCE STEM Fellow, Golden Colorado, June 9-18, 2025
- 2024 International Student Employment Webinar, Interin Bridge, Mays Center, August.
- 2024 Graduate Mentoring Academy (GMA), Virtual – Texas A&M University. 9 1-hour workshops to improve faculty mentorship of graduate students.
- 2023 Council for Colleges of Arts & Sciences Seminar for Department Chair/Heads, Baton Rouge, LA December 3-5th.
- 2023 HEY UNIVERSITY: Leadership Development for Academics, Texas A&M-San Antonio, September 12-14
- 2023 Texas A&M University System Academic Department Leaders Workshop – Virtual. August 1- 4th.
- 2022 American Association of State Colleges and Universities Emerging Leaders Program, Washington, D.C. June

TEACHING

TEACHING-MENTORSHIP AWARDS and HONORS

- 2016 Military Affairs Student Veteran Coin – presented by a student to a professor who has been their mentor, role model, and support
- 2013 Excellence in Teaching – The National Society of Leadership and Success: Sigma Alpha Pi
- 2010 & 2011 Teaching Excellence Award – Texas A&M University System
- 2002 & 2003 Graduate Teaching Assistantship Award – Department of Biology, Colorado State University

COURSES TAUGHT

Texas A&M University – San Antonio

Honor's Program

HONR 1300 Honor's Seminar: Sculpting Ecology-Mutualistic Relationships

Undergraduate

BIOL 1106 General Biology I laboratory
BIOL 1306 General Biology I – Attributes of Living Systems
BIOL 1307 General Biology II – Biology of Organisms
BIOL 1308 Introduction to Life Sciences I
BIOL 1309 Introduction to Life Sciences II
BIOL 2411 Genetics with lab
BIOL 3104 Research Experience in Biology
BIOL 3375 Applied Entomology
BIOL 3401 Invertebrate Zoology with lab
BIOL 3402 Evolution
BIOL 3407 Ecology
BIOL 4101 Seminar – Integrative Biology
BIOL 4102 Seminar – Zoology
BIOL 4104 Seminar - Ecology
BIOL 4120 Experiential Laboratory Instruction
BIOL 4304 Undergraduate Research in Biology
BIOL 4360 Internship in Biology
BIOL 4409 Biology of Disease Vectors
BIOL 4430 Parasitology

Graduate

BIOL 5370 Special Topics – Advanced Concepts in Biology
BIOL 5470 Special Topics – Biology of Disease Vectors

Colorado State University

BZ 110 Principles of Animal Biology
BZ 212 Invertebrate Zoology
LIFE 103 Biology of Organisms Animals & Plants
LIFE 102 Attributes of Living Systems

Frontrange Community College

BIO 111 General Biology I
BIO 105 Introduction to Biology

University of Nebraska-Lincoln

BIOS 1xx Biodiversity (lab)
BIOS 1xx Introductory Zoology (lab)
BIOS 381 Invertebrate Zoology (lab)
BIOS 4xx Parasitology (lab)

GRADUATE STUDENTS MENTORED

- 2024-current Sarah Palmeri – Masters of Science in Biology: Microbiome of two different species of North American Blackflies.
- 2022-2024 Ashley Aguilar – Masters of Science in Biology: Mosquito species diversity and feeding preferences in a Zoological Park in San Antonio, TX. Graduate May, 2024
- 2017-2018 Oluwaseun Aloba – Texas A&M University Masters of Public Health (MPH). My research lab, where we focus on vector ecology, was the location for his external internship required of his degree.

UNDERGRADUATE STUDENTS TRAINED

Overall Summary:

- I have mentored **60** A&M-SA undergraduate students in research from 2012-current.
 - 2024 students (4): Kailynn Wells, Lali Rodriguez, Bryon Martinez, Thalia Moss
- 34% of these students pursued graduate or professional degrees after completing their undergraduate degrees.
- 85% (51/60) have attended a scientific conference; 18 students gave oral presentations and 23 presented posters.
- 9 students have won awards for their presentations
- 19 students were at least partially funded by grants or research scholarships
- 7 students were co-authors on peer-reviewed publications

NSF/S-STEM (Scholarships in Science, Technology, Engineering, and Mathematics Program) - Water Security for Texas: Creating Educational Pathways and Cultivating Leadership for the Water Work Force – 2021 – 2024

- Faculty Mentor of undergraduate research, current is Kailynn Wells

NSF/CIMA (Ciencia, Ingeniería, y Matemáticas Aliados) / LSAMP (Louis Stokes Alliance for Minority Participation Baccalaureate (B2B) Program) – 2015-2017, 2019, 2022-2023

- Campus Liaison
- Faculty Mentor of 6 students from Community Colleges: Palo Alto, Northwest vista, and St. Phillips College.
- All presented posters at the CIMA conference
- 1 student was accepted to present and presented at the National Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) in Honolulu, HI

PROFESSIONAL DEVELOPMENT - Teaching

- 2025 AI-Enhance Your Course Workshop Series. Texas A&M-San Antonio, Spring 2025
- 2020 Texas Regional PULSE Institute (TRPI): Partnership for Undergraduate Life Science Education – UTSA Downtown Jan 9-11
- 2013 Southwest Teaching and Learning Conference April 5 - Texas A&M-San Antonio
- 2012 Quality Education for Minorities (QEM) Network. Professional Development Workshop for Minority-serving Institutions and their K-12 Partners focused on the NSF MSP Program October 19-20
- 2011 Hispanic Association of Colleges and Universities (HACU) National Annual Conference:

- Latino Leadership Institute and Workshop.
- 2011 Strategies for teaching large undergraduate science classes with team-based learning and CCRS: 2-day conference hosted by Science Faculty Collaborative and the Texas Higher Education Coordinating Board
- 2010 CCRIFC Mathematics & Science Summit – sponsored by the Texas Higher Education Coordinating Board: September 23-24
- 2004 Teacher Enrichment Activities and Mentoring
- 2004 Teachers Helping Teachers Training for Faculty/Instructors
- 2004 Curriculum development Workshops – “Backward Design”

SCHOLARLY/CREATIVE

SCHOLARLY HONORS and AWARDS

- 2016 Chancellor’s Coin – Presentation on Zika for Chancellor’s Century Council
- 2011 E. Kika de la Garza Fellow – United States Department of Agriculture
- 2003 Travel Award – American Society of Parasitologists
- 2002 Student Paper Presentation Award – Society for Vector Ecologists
- 1997 Ashton Cuckler Parasitology Scholarship – University of Nebraska-Lincoln
- 1995 R.C. Terwilleger Invertebrate Zoology Scholarship – University of Oregon
- 1995 Mortar Board National Senior Honor Society – University of Nebraska
- 1994-1995 Golden Key National Honor Society – University of Nebraska

PEER-REVIEWED PUBLICATIONS

*Corresponding author †Undergraduate student, ‡Graduate student

- **Wise de Valdez, M. R.**, 2024. Behavioral Parasitology in S. L. Gardner and S. A. Gardner (Eds.) *Concepts in Animal Parasitology* (Chapter 06) Zea Books, Lincoln, Nebraska, United States, pgs. 62-83 <https://doi.org/10.32873/unl.dc.ciap070>
- Bohmann, Amy, †Martinez-Berman, L., †Senger, A. and ***Wise de Valdez, M.R.** 2022 Personality and city Culture Predict Attitudes and Practices toward mosquitoes and mosquito-borne diseases in South Texas. *Frontiers in Public Health*, 10:4216 <https://doi.org/10.3389/fpubh.2022.919780>
- Martin, E., Tang, W., Briggs, C., Hopson, H., Juarez, J.G., Garcia-Luna, S.M., **Wise de Valdez, M. R.**, Badillo-Vargas, I.E., Borucki, M.K., Frank, M. and †Hamer, G.L., 2020. Cell fusing agent virus (Flavivirus) infection in *Aedes aegypti* in Texas: seasonality, comparison by trap type, and individual viral loads. *Archives of Virology*, 165(8), pp.1769-1776. <https://doi.org/10.1007/s00705-020-04652-0>
- †Obregón, J.A., †Ximenez, M.A., †Villalobos, E.E. and ***Wise de Valdez, M.R.**, 2019. Vector Mosquito Surveillance Using Centers For Disease Control and Prevention Autocidal Gravid Ovitrap In San Antonio, Texas. *Journal of the American Mosquito Control Association*, 35(3), pp.178-185. <https://doi.org/10.2987/18-6809.1>
- Martin, E., Borucki, M.K., Thissen, J., Garcia-Luna, S., Hwang, M., **Wise de Valdez, M.R.**, Jaing, C.J., Hamer, G.L. and †Frank, M., 2019. Adaptation of a microbial detection array as a monitoring tool revealed the presence of mosquito-borne viruses and insect-specific viruses in field-collected

mosquitoes. *Applied and Environmental Microbiology*. 85(19) <https://doi.org/10.1128/AEM.01202-19>

- †Skinner, K. and *Wise de Valdez, M.R. 2018. Survey of intestinal helminths from feral hogs in Texas. *Southwestern Naturalist*. 64(2): 91-95. <https://doi.org/10.1894/0038-4909-63-2-91>
- *Wise de Valdez, M.R. 2017. Mosquito species distribution across urban, suburban, and semi-rural residences in San Antonio, Texas. *Journal of Vector Ecology* 42:1-5 <https://doi.org/10.1111/jvec.12254>
- †Barquin, A., B. †McGehee, R. T. Sedam, W. L. Gordy, B. Hanelt, and *Wise de Valdez, M.R. 2015. Calling behavior of male *Acheta domesticus* crickets infected with *Paragordius varius* (Nematomorpha: Gordiida). *Journal of Parasitology* 101(4): 393-397 <https://doi.org/10.1645/15-765.1>
- Wise de Valdez, M. R., D. Nimmo, H-F. Gong, A. A. James, L. Alphey, W. C. *Black, IV. 2011 Genetic elimination of dengue vector mosquitoes. *PNAS* 108:4772-4775. <https://doi.org/10.1073/pnas.1019295108>
- *Facchinelli L., L. Valerio, G. Bond Campeón, Wise de Valdez, L. C. Harrington, J. M. Ramsey, M. Casas-Martínez, T. W. *Scott. 2011 Development of a semi-field system for Contained Field Trials with *Aedes aegypti* in Southern Mexico. *American Journal of Tropical Medicine and Hygiene*. 85:248-256 <https://doi.org/10.4269/ajtmh.2011.10-0426>
- Wise de Valdez, M. R., E. Suchman, J. O. Carlson, W. C. Black IV. 2010. A large scale laboratory cage investigation of *Aedes denonucleosis* Virus (AeDNV). *Journal of Medical Entomology*. 47:392-399 <https://doi.org/10.1093/jmedent/47.3.392>
- *Suchman, E. L., Piper, J., Wise de Valdez, M. R., Plake, E., Klecker, B., Black W. C. IV, Carlson, J. 2009. *Aedes aegypti* denonucleosis virus(AeDNV) is able to amplify, spread and persist in mosquito populations. *Journal of Medical Entomology*. 46(4):909-918 <https://doi.org/10.1603/033.046.0425>
- *Wise de Valdez, M. R. 2007 Predator avoidance behavior of *Aedes aegypti* mosquito larvae infected with mermithid nematodes (Nematoda: Mermithidae). *Journal of Vector Ecology* 32:150-153 [https://doi.org/10.3376/1081-1710\(2007\)32\[150:PABOAA\]2.0.CO;2](https://doi.org/10.3376/1081-1710(2007)32[150:PABOAA]2.0.CO;2)
- *Wise de Valdez, M. R. 2006 Parasitoid-induced behavioral alterations in *Aedes aegypti* mosquito larvae infected with mermithid nematodes (Nematoda: Mermithidae). *Journal of Vector Ecology* 31:344-354 [https://doi.org/10.3376/1081-1710\(2007\)32\[150:PABOAA\]2.0.CO;2](https://doi.org/10.3376/1081-1710(2007)32[150:PABOAA]2.0.CO;2)
- Poulin, R., Wise, M.R., and Moore, J. K. 2003 A comparative analysis of adult body size and its correlates in acanthocephalan parasites. *International Journal for Parasitology* 33: 799-805 [https://doi.org/10.1016/S0020-7519\(03\)00108-5](https://doi.org/10.1016/S0020-7519(03)00108-5)
- *Wise, M. R., Janovy, J. Jr., and Wise, J. C. 2000 Host specificity in *Metamera sillisenorum*, N. Sp. a gregarine parasite of the leech *Helobdella triserialis* with notes on transmission dynamics. *Journal of Parasitology* 86: 602-606 [https://doi.org/10.1645/0022-3395\(2000\)086\[0602:HSIMSN\]2.0.CO;2](https://doi.org/10.1645/0022-3395(2000)086[0602:HSIMSN]2.0.CO;2)

MANUSCRIPTS IN PREPARATION

*Corresponding author †Undergraduate student, ‡Graduate student

- †Wells, K. and *Wise de Valdez, M.R. (*In preparation*) Impact of urban river management on mosquito populations. *Journal of Vector Ecology* *or* *Urban Ecosystems*
- ‡Aguilar, A. Rajamnamikam D., Pitts, J. and *Wise de Valdez, M.R. (*In preparation*) Mosquito diversity and host preference in an urban and rural zoo in Texas. *Medical and Veterinary Entomology*

- ***Wise de Valdez, M. R.**, Phillips, J., †Obregón, J.A., and ‡Aloba, A. (*In preparation*) Adult mosquito distribution associated with premise condition index and socioeconomics of neighborhoods in San Antonio, TX –Journal of Medical Entomology.
- †Hernandez, Oscar and ***Wise de Valdez, M.R.** Vegetative Canopy coverage and mosquito abundance in San Antonio, TX does not differ along a socioeconomic gradient. Journal of Vector Ecology

INVITED CONTRIBUTIONS

- Texas Mosquito Control Association Quarterly Newsletters: Messages from the President January 2024, May 2024, September 2024
- **STAT** (media company focused on finding and telling compelling stories about health, medicine, and scientific discover) – *Invited commentary* in “How dengue and Zika infections could make people more attractive to mosquitoes by Theresa Gaffney: June 30, 2022 <https://www.statnews.com/2022/06/30/dengue-zika-virus-scent-acetophenone/>
- **Foundation for the NIH** – Data Needs and Assay design for decision making on gene drive-modified mosquitoes, *International Meeting Newport Beach, CA* – 2109: Acknowledged in publication from meeting. James, S.L., Marshall, J.M., Christophides, G.K., Okumu, F.O. and Nolan, T., 2020. Toward the definition of efficacy and safety criteria for advancing gene drive-modified mosquitoes to field testing. *Vector-Borne and Zoonotic Diseases*, 20(4), pp.237-251. <https://doi.org/10.1089/vbz.2019.2606>
- **The Conversation** - *Invited Author: *Wise de Valdez, M.* Zika: *Aedes aegypti* mosquitoes love biting humans, and that’s why they spread viruses so well. The Conversation, February 23, 2016 <https://theconversation.com/zika-aedes-aegypti-mosquitoes-love-biting-humans-and-thats-why-they-spread-viruses-so-well-54238>
- **NPR’s On Point with Tom Ashbrook**: *Invited panel guest*: February 10th, 2016: “Dealing with the Zika Threat”. <http://onpoint.wbur.org/2016/02/10/zika-virus-brazil-cdc-threat>
- **The Source – Texas Public Radio**: *Invited panel guest*: with David Martin Davies: What Lessons on Zika are we Learning from Miami? August 2016 <http://tpr.org/post/source-what-lessons-are-we-learning-zika-miami#stream/0>
- **Yahoo.com en Español** *Invited contributor*: “¿por qué los mosquitos pican más a algunas personas?” <https://es-us.noticias.yahoo.com/zika-por-qu%C3%A9-los-mosquitos-pican-m%C3%A1s-a-algunas-220644995.html>
- **Yahoo.com en Español** *Invited contributor*: “Zika: Replentes Naturales” <https://es-us.noticias.yahoo.com/zika-replentes-naturales-165633720.html>
- **Eco-21 Brazil**: *Invited contributor*: “ Mosquitoes *Aedes aegypti* amam picar as pessoas”. February 2016 <http://www.eco21.com.br/textos/textos.asp?ID=3794>

FUNDED GRANTS and CONTRACTS – TOTAL \$328,321

External	Total = \$295,991
2024	City of San Antonio Metropolitan Health District, YEAR 5 - \$19,200 Contract for Mosquito Speciation for Public Health Services, January 1, 2024 – December 31, 2024 PI: Megan Wise de Valdez
2023	City of San Antonio Metropolitan Health District, YEAR 4 - \$19,200 Contract for Mosquito Speciation for Public Health Services, January 1, 2023 – December 31, 2023 PI: Megan Wise de Valdez
2021-2023	National Science Foundation NSF – RCN-UBE Incubator: Building an inter-disciplinary regional network to expose underrepresented students to the process of biological science in its community context \$74,208 – December 15, 2021 – September 15, 2023 PI: Megan Wise de Valdez, CoPI: Bryan Bayles *Wrote final report December, 2023
2022	City of San Antonio Metropolitan Health District, YEAR 3 - \$19,200 Contract for Mosquito Speciation for Public Health Services, January 1, 2022 – December 31, 2022 PI: Megan Wise de Valdez
2021	City of San Antonio Metropolitan Health District, YEAR 3 - \$19,200 Contract for Mosquito Speciation for Public Health Services, January 1, 2021 – December 31, 2021 PI: Megan Wise de Valdez
2020	City of San Antonio Metropolitan Health District, YEAR 2 - \$19,200 Contract for Mosquito Speciation for Public Health Services, January 1, 2020 – December 31, 2020 PI: Megan Wise de Valdez
2019	City of San Antonio Metropolitan Health District, YEAR 1 - \$19,200 Contract for Mosquito Speciation for Public Health Services, March 1, 2019 – December 31, 2019 PI: Megan Wise de Valdez
2018-2019	U.S. Department of Energy – Lawrence Livermore National Laboratory, Award #B625453, \$19,734 “Integrated Biosurveillance Test Bed for Detecting and Predicting Emergence of Mosquitoes”. Oct. 31, 2018 – June 30, 2019 PI: Gabriel Hamer TAMU Subaward: Megan Wise de Valdez TAMUSA
2018	City of San Antonio Metropolitan Health District, \$12,049 Subaward as part of the City Mosquito management plan in response to threat of Zika transmission. June 30, 2018 – Dec. 31, 2018 PI: Roger Pollok Metro Health, CoPI: Megan Wise de Valdez
2017-2018	City of San Antonio Metropolitan Health District, \$25,000 Subaward as part of the City Mosquito management plan in response to threat of Zika transmission. June 30, 2017 – June 30, 2018 PI: Roger Pollok Metro Health, CoPI: Megan Wise de Valdez
2017-2018	U.S. Department of Energy – Lawrence Livermore National Laboratory, Award #B625453, \$20,000 “Integrated Biosurveillance Test Bed for Detecting and Predicting Emergence of Mosquitoes”. Oct. 31, 2017 – June 30, 2018 PI: Gabriel Hamer TAMU Subaward: Megan Wise de Valdez TAMUSA
2016-2017	U.S. Department of Energy – Lawrence Livermore National Laboratory, Award #B618988, \$20,000 “Integrated Biosurveillance Test Bed for Detecting and Predicting Emergence of Mosquitoes”. July 7 – June 30, 2017 PI: Gabriel Hamer Subaward: Megan Wise de Valdez TAMUSA
2016	City of San Antonio Metropolitan Health District - \$4000 – Panel of Experts for Zika virus. Purchase of BG-sentinel traps and accessories
2013	National Science Foundation - Research Opportunity Award – \$25,000 . Collaborative Research with University of New Mexico: Unraveling a Gordian knot: Biodiversity of

Gordian worms, phylum Nematomorpha, in the New World. 2013 PI: Ben Hanelt
University of New Mexico, **Subaward: Megan Wise de Valdez TAMUSA**

Internal Total = \$37,330

- 2025 College Council Grant - **\$5000**, Characterization of the gut microbiome of blackflies across life cycle stages and larval habitats.
- 2022 Women in STEM Panel with Guest Presenter, Burcin Mutul-Paktil. Co-awardee of **\$2330** from College of Arts and Sciences Award Committee: Funds to Host Visiting Presenters
- 2019-2022 Texas A&M-San Antonio Research Council Grant - **\$10,000** Dog heartworm prevalence in San Antonio mosquitoes: Spatial variation between high-low socioeconomic neighborhoods original date: January 31, 2020 – December 31, 2020-2021 extended dates due to Covid-19 January 31, 2021 – December 21, 2022 **PI: Megan Wise de Valdez**
- 2013 President's Circle Research Grant Texas A&M-San Antonio - **\$10,000**. Calling behavior of crickets infected with Nematomorph worms. 2013 **PI: Megan Wise de Valdez**
- 2012 Faculty Excellence Award – Spring 2012: A Stipend of **\$10,000** to conduct faculty-lead undergraduate research in Parasitology. **PI: Megan Wise de Valdez**

PRESENTATIONS

**Corresponding author [¥]Undergraduate student, [±]Graduate student, underline represents presenting author*

Mosquito Ecology & Vector-Borne Diseases

- *Wise de Valdez, M. **“Presidential Address: Ten years with the Texas Mosquito Control Association; Students from A&M-SA”** Fredericksburg, TX (October 2024).
- *Wise de Valdez, M. **“Urban Mosquitos: Socioeconomic determinants of distribution in San Antonio”**. Sam Houston State University, Huntsville, TX (September, 2023). **INVITED**
- [±]Aguilar, A. and *Wise de Valdez, M. **“Mosquito Ecology in Zoological Parks: Implication for mosquito-borne disease zoonoses. American Society of Parasitologists **National** meeting (July 2023) – Kansas City, MO**
- *Wise de Valdez, M. **“Mosquito surveillance and research in San Antonio, TX. Texas Mosquito Control Association Spring Workshop, San Antonio Botanical Gardens. (April 2023). **INVITED****
- *Wise de Valdez, M. **“Urban Ecology & Urban Undergraduates, a Match Made in San Antonio, TX” **National** meeting of the Society for Vector Ecology (October 2019) – San Juan, PR**
- *Wise de Valdez, M., [¥]Obregon, J., [±]Aloba, O., **“Adult mosquito distribution associated with premise condition index and socioeconomics of neighborhoods in San Antonio, TX” **National** meeting of the Society for Vector Ecology, Yosemite, CA (October 2018)**
- *Wise de Valdez, M. **“Residential surveillance of mosquito vectors in a large metropolitan area using CDC autocidal gravid ovitraps”**. UTSA Vector-borne diseases symposium. San Antonio, TX (June, 2017) **INVITED**
- *Wise de Valdez, M. **“Residential surveillance of mosquito vectors in a large metropolitan area: Challenges and interpretations”**. Southwestern Association of Parasitologists, Lake Texoma, OK (April, 2017)
- *Wise de Valdez, M. **“Distribution of the primary vectors of Zika and West Nile viruses in residential backyards across San Antonio, Texas: New information and challenges in a city without vector control”** Texas State University (February, 2017) **INVITED**

- *Wise de Valdez, M., *Ximenez, M., *Darden, J. “City-Wide residential Zika vector surveillance in large U.S. metropolitan area using CDC autocidal gravid ovitraps”. Society of Vector Ecology **National Meeting**, Anchorage, AK (September. 2016).
- *Wise de Valdez, M. “Mosquito species distribution across urban, suburban, and semi-rural residences in San Antonio, TX”. Diseases in Nature Infectious to Man– San Antonio, TX (May, 2016) **INVITED**
- *Wise de Valdez, M. Presentation on Zika for Texas A&M Chancellor’s Century Council –San Antonio, TX (March 4, 2016) **INVITED**
- *Wise de Valdez, M. “Zika Virus Update” Faculty/Staff Texas A&M-San Antonio (February 2016)
- *Wise de Valdez, M. “Mosquito species distribution in suburban, urban, and semi-rural residences in San Antonio, Texas” Symposium on Urban Entomology at the Southwestern Branch of the Entomological Society of America (February, 2016) **INVITED**
- *Wise de Valdez, M., Darden, J., McGehee, B. “Mosquito species distribution in urban, suburban, and semi-rural residences in San Antonio, Texas.” Society of Vector Ecology Meeting (**National**), Albuquerque, NM (September, 2015).
- Wise de Valdez, M. “Mosquitoes of Texas: Know Your Enemy – Disease, Behavior, and Control” Faculty Speaker Series A&M-SA (April 2011)
- *Wise de Valdez, M. “A large scale laboratory cage investigation of the release of mosquitoes carrying a dominant lethal gene (RIDL®) for the control of *Aedes aegypti* mosquitoes.” Annual Meeting of the American Society for Tropical Medicine and Hygiene, Washington, D.C. (Nov. 2009)
- *Wise de Valdez, M. “A large scale laboratory cage investigation of *Aedes* Densonucleosis Virus (AeDNV) as a sustainable biocontrol method of *Aedes aegypti* mosquitoes”. Annual Meeting of the American Society for Tropical Medicine and Hygiene Philadelphia, PA (November, 2007)

Parasitology

- *Wise de Valdez, M. “Parsitoid-induced behavioral alterations and Transgenic mosquitoes” University of New Mexico Parasitology Department (September, 2016) **INVITED**
- *Wise de Valdez, M. “Predator Avoidance Behavior of *Aedes aegypti* Mosquito Larvae Infected with Mermithid Nematodes” National Meeting of the Entomological Society of America Symposium: Using principles of Ecology to Understand Populations and Communities of Container Dwelling Mosquitoes. (November, 2004) **INVITED**
- *Wise de Valdez, M. “Predator Avoidance Behavior of *Aedes aegypti* Mosquito Larvae Infected with Mermithid Nematodes” National meeting of the Society of Vector Ecology, Coeur d’Alene, ID (October, 2003)
- *Wise de Valdez, M. “Predator Avoidance Behavior of *Aedes aegypti* Mosquito Larvae Infected with Mermithid Nematodes” National meeting of the American Society of Parasitologists, Halifax, Nova Scotia (August, 2003)
- *Wise de Valdez, M. “Behavioral Alterations in Mosquito Larvae Infected with Mermithid Nematodes” **Presentation Award Winner**. National Meeting of the Society of Vector Ecology, Albuquerque, NM (September, 2002)
- *Wise de Valdez, M. “Behavioral Alterations in Mosquito Larvae Infected with Mermithid Nematodes” Regional Meeting of the Southwestern Association of Parasitologist Lake Texoma, OK (April, 2002)
- *Wise de Valdez, M. “Coccidiosis Vaccines for Broiler Chickens” National Meeting of the American Society of Parasitologists, San Juan, PR (Aug. 2000)

- *Wise de Valdez, M. “Host specificity in *Metamera sillisenorum*, N. Sp. a gregarine parasite of the leech *Helobdella triserialis*” Regional Meeting of the Southwestern Association of Parasitologists, Lake Texoma, OK (April, 1998)

Student-Presented Mentored Research (Last 5 years only)

- Moss, T. Determining the Water Quality of Treated Wastewater in San Antonio Creeks, Texas Mosquito Control Association, Fredericksburg, TX (Oct. 2024) **AWARD WINNER**
- ‡Rodriguez, A. and *Wise de Valdez, M. “*Dirofilaria immitis* prevalence in dogs from low-income zip codes in San Antonio, TX” Southwestern Association of Parasitologists, University of Oklahoma Biology Station, April 2024
- ‡Cruz, L., †Aguilar, A., and Wise de Valdez, M. “Mosquito abundance and diversity at the San Antonio Zoo”. Texas A&M-SA Student Research Symposium April 2024
- †Aguilar, A. and *Wise de Valdez, M. Jimmy K. Olson Memorial Scholarship Recipient Presentation. Mosquito Ecology at Two Zoological Parks in Texas. Texas Mosquito Control Association, Corpus Christi, TX (November, 2023).
- ‡Wells, K. and *Wise de Valdez, M. Impact of Management Strategies of the San Antonio River on Mosquito Diversity and Abundance. Texas Mosquito Control Association, Corpus Christi, TX (November, 2023). **AWARD WINNER**
- ‡Martinez, Bryon. and *Wise de Valdez, M. Update of Mosquito Population Distribution and West Nile Positivity Across San Antonio, TX for 2021 and 2022. Texas Mosquito Control Association, Corpus Christi, TX (November, 2023) **AWARD WINNER**
- ‡Wells, K. and *Wise de Valdez, M. Impact of Management Strategies of the San Antonio River on Mosquito Diversity and Abundance. Southwestern Association of Naturalists Annual Conference, San Antonio, TX (August, 2023)
- ‡Wells, K. and *Wise de Valdez, M. Impact of Management Strategies of the San Antonio River on Mosquito Diversity and Abundance. Texas A&M-San Antonio Student Research Symposium (April, 2023). **AWARD WINNER**
- ‡Cardoso, K. and *Wise de Valdez, M. Distribution of *Dirofilaria immitis* vectors and dog population density among neighborhoods of different socioeconomic status. Texas A&M-San Antonio Student Research Symposium (April, 2023).
- ‡Hernandez, O. and *Wise de Valdez, M. Vegetative Shade Coverage and Mosquito Abundance Across Neighborhoods of Different Socioeconomic Status. Southwestern Association of Parasitologists, Lake Texoma, OK (April, 2023).
- ‡Wells, K. and *Wise de Valdez, M. Impact of Management Strategies of the San Antonio River on Mosquito Diversity and Abundance. Southwestern Association of Parasitologists, Lake Texoma, OK (April, 2023).
- ‡Ting kang, H. and *Wise de Valdez, M. Distribution of *Dirofilaria immitis* vectors and dog population density among neighborhoods of different socioeconomic status. Southwestern Association of Parasitologists Meeting, Lake Texoma, OK (April, 2023).
- †Aguilar, A., ‡Hernandez, O. and *Wise de Valdez, M. Mosquito species diversity at the San Antonio Zoo. National Society for Comparative and Integrative Biology, Austin, TX (January, 2023).
- ‡Hernandez, O. Guerra, D. and *Wise de Valdez, M. Vegetative Shade Coverage and Mosquito Abundance Across Neighborhoods of Different Socioeconomic Status. National Society for Comparative and Integrative Biology, Austin, TX (January, 2023).

- ±Aguilar, A. and *Wise de Valdez, M. Mosquito species diversity at the San Antonio Zoo. Texas Mosquito Control Association, Galveston, TX (October, 2022). **AWARD WINNER**
- ¥Wells, K. and *Wise de Valdez, M. Mosquito diversity and relative abundance along an urbanization gradient of the San Antonio River. Texas Mosquito Control Association, Galveston, TX (October, 2022).
- ¥Williamson, B. and *Wise de Valdez, M. Distribution of *Dirofilaria immitis* vectors and dog population density among neighborhoods of different socioeconomic status. Texas Mosquito Control Association, Galveston, TX (October, 2022).
- ¥Hernandez, O. and *Wise de Valdez, M. Vegetative Shade Coverage and Mosquito Abundance Across Neighborhoods of Different Socioeconomic Status. CIMA Annual Symposium for undergraduate research, (August 2022).
- ¥Eck, Jessica and *Wise de Valdez, M. Distribution of *Dirofilaria immitis* vectors and dog population density among neighborhoods of different socioeconomic status. National Meeting of the American Society of Parasitologists, College Station, TX (July, 2022)
- ¥Eck, J. and *Wise de Valdez, M. Distribution of *Dirofilaria immitis* vectors and dog population density among neighborhoods of different socioeconomic status. Southwestern Association of Parasitologists Annual Meeting, Lake Texoma, OK (April, 2022)
- ¥Wells, K. and *Wise de Valdez, M. Mosquito diversity and relative abundance along an urbanization gradient of the San Antonio River. Southwestern Association of Parasitologists Annual Meeting, Lake Texoma, OK (April, 2022)
- ¥Muzquiz, C. and *Wise de Valdez, M “Study Design and preliminary data-Dog heartworm prevalence in San Antonio mosquitoes: Spatial variation between Hi-low socioeconomic neighborhoods”. Texas Mosquito Control Association Annual Meeting, Austin, TX (October, 2021) **AWARD WINNER**
- ¥Garza, Adrian and *Wise de Valdez, M. “First full year of Mosquito Surveillance – City of San Antonio Metropolitan Health District, 2020” Texas Mosquito Control Association Annual Meeting, Austin, TX (October, 2021)
- ¥Dillon, T. and *Wise de Valdez, M. “Assessment of Insecticide Resistance on *Aedes* Mosquitos In San Antonio Using CDC Bottle Bioassays” National Society for Advancement of Chicanos/Hispanics & Native Americans in Science (SACNAS) in Honolulu, HI (November, 2019) **AWARD WINNER**
- ¥Flores, B., ¥Gonzales, M., ¥Dunegan, E., ¥Talamo, S., ¥Dillon, T., *Wise de Valdez, M. “*Aedes* species distribution in San Antonio, Texas using oviposition cups”. Texas Mosquito Control Association Annual Meeting, Waco, TX (October, 2019)
- ¥Talamo, S., ¥Flores, B., ¥Gonzales, M., ¥Dunegan, E., ¥Dillon, T., *Wise de Valdez, M. “Insecticide resistance assays using CDC bottle bioassays on local *Aedes* populations in San Antonio, Texas”. Texas Mosquito Control Association Annual Meeting, Waco, TX (October, 2019)

Undergraduate Research Mentorship

- *Wise de Valdez, M. “Reflections as a CIMA mentor” CIMA-LSAMP Symposium and Awards Ceremony. August 2019. **INVITED**
- *Wise de Valdez, M. “Reflections as a CIMA mentor” CIMA-LSAMP Symposium and Awards Ceremony. August 2016. **INVITED**

Faculty Development Presentations

- *Wise de Valdez, M. “Modifying Team-Based Learning (TBL) to Make it Work for You.” Southwest Teaching and Learning Conference Workshop. (Spring 2013)

NATIONAL PRESS BASED ON RESEARCH

- Feature in **USA Today** (and all other papers owned by Gannet) – “Texas Researchers on Front Line in the Battle to stop Zika Spread in US” August 22, 2016
<http://www.usatoday.com/story/news/nation/2016/08/20/zika-research-san-antonio-texas-am/89045424/>
- Feature Article for Press Release: Calling behavior of male *Acheta domesticus* crickets infected with *Paragordius varius* (Nematomorpha: Gordiida), was selected as the featured article for the August 2015 issue.
- Featured in the **Wildlife Society on-line Magazine** September 1, 2015 – based on an interview and my research with parasite-induced changes in cricket behavior
- Featured in **Scientific American** November 2011 Issue – The Wipe Out Gene by Bijal Trivedi. Featured in the article for the work I completed on laboratory based trials of genetically modified *Aedes aegypti* mosquitoes.

REGIONAL PRESS BASED ON RESEARCH

- Featured on **KSAT News**: 10/16/2018 <https://www.ksat.com/news/does-the-cold-snap-mean-the-end-of-mosquito-season-maybe-not>
- Featured on Fox news, San Antonio <http://foxsanantonio.com/news/local/local-experts-share-zika-warning-after-6-pregnant-women-in-houston-area-test-positive> (June, 2017)
- Featured in **San Antonio Express News**
<http://www.mysanantonio.com/news/local/article/Professor-in-San-Antonio-gears-up-to-study-11134281.php> (May, 2107)
- Featured on **Texas Public Radio** August 25th, 2016 San Antonio prepares for Zika, is it enough?
<http://tpr.org/post/san-antonio-prepares-zika-it-enough#stream/0>
- Featured in **The Dallas Morning News** – May 11, 2016 – Zika virus gets all the attention, but experts say West Nile will be worse this summer in Texas.
- Featured in **Denton Record-Chronicle** – May 11, 2016 – W. Nile bigger Texas threat than Zika.
- Featured in **San Antonio Express News** “Zika Virus: Separating Fact from Speculation” February 15, 2016 <http://www.expressnews.com/news/local/article/Zika-virus-separating-fact-from-speculation-6832110.php>
- Featured in **San Antonio Express News** “A safe tire site that is not precisely safe” July 30, 2016 <http://www.mysanantonio.com/opinion/commentary/article/A-safe-tire-site-that-is-not-precisely-safe-8708403.php> 3) “Southside Tire Dump Caught in Bureaucratic Snarl” July 21, 2016
- Featured on **San Antonio’s News 4** (two stories): 1) “Local Zika Virus Researcher Needs Help Trapping Mosquitoes” April 28th, 2016 <http://news4sanantonio.com/news/local/local-zika-virus-researcher-needs-help-trapping-mosquitoes> 2) “Mosquito Patrol - Tracking Zika Carriers” June 15th, 2016 <http://news4sanantonio.com/news/local/tamusa-mosquito-patrol-tracking-zika-capable-insects>

PROFESSIONAL SOCIETIES & MEETINGS ATTENDED

National-International

- 1998-2024 American Society of Parasitologists, *Meetings attended:* 1997,1999, 2000, 2001, 2003, 2014, 2015, 2022-2024
- 2002-2021 Society for Vector Ecology, *Meetings Attended:* 2002, 2003, 2015, 2016, 2018, 2019
- 2014-2019 American Mosquito Control Association
- 2006-2013 American Society of Tropical Medicine and Hygiene, *Meetings Attended:* 2006, 2007, 2009, 2013

Regional

- 2013-2024 Texas Mosquito Control Association, *Meetings attended:* 2014-2024
- 1996-2019 Southwestern Association of Parasitologists. *Meetings Attended:* 1997,1998, 2000, 2002, 2012 – 2019, 2022-2023
- 2016 Southwestern Branch of the Society of Entomologists, Regional Meeting Attended: 2016

SERVICE

SERVICE HONORS and AWARDS

- 2023 Texas A&M University Presidential Search Advisory Committee - Recognition
- 2022 Nominated to attend the American Association of State Colleges and Universities Emerging Leaders Program (attended)
- 2021 College of Arts and Sciences 2020 Excellence in Service Award
- 2016 Jaguar Excellence Award – Texas A&M-San Antonio: Modeling courage and leading the way for our faculty, staff, and students
- 2012 International Delegate – Texas A&M-San Antonio Trade and Cultural Mission to Israel

SERVICE TO THE PROFESSION

Service within professional entities

National-International

- 2025 American Mosquito Control Association – Grant Reviewer for AMCA *Culicoides/Oropouche* Control Funding Opportunity.
- 2023-current American Society of Parasitologists – 1) Public Relations Committee, 2) Student Presentation Awards Committee, 3) Resolutions Committee
- 2022-current Editorial Board for the Helminthological Society of Washington’s journal, Comparative Parasitology. https://www.helmsoc.org/HelmSoc_site/helmsoc/editors.html
- 2019 Foundation for the NIH – **INVITED** Participant Data Needs and Assay design for decision making on gene drive-modified mosquitoes, **International** Meeting Newport Beach, CA – 2109: Acknowledged in publication from meeting.
James, S.L., Marshall, J.M., Christophides, G.K., Okumu, F.O. and Nolan, T., 2020. Toward the definition of efficacy and safety criteria for advancing gene drive-modified mosquitoes to field testing. *Vector-Borne and Zoonotic Diseases*, 20(4), pp.237-251. <https://doi.org/10.1089/vbz.2019.2606>
- 2019 Symposium organizer – “Urban Ecology of Disease Vectors” - Annual Meeting Society for Vector Ecology, September 2019, San Juan, PR
- 2016 Lectureship Committee – American Society of Parasitologists
- 2015 Nominating Committee – American Society of Parasitologists
- 2014-2015 Student Competition Committee – American Society of Parasitologists

Regional

2023-2024	President – Texas Mosquito Control Association
2022-2023	President Elect - Texas Mosquito Control Association Responsible for finding, inviting, and hosting KeyNote Speaker
2021-current	Auditing Committee – Texas Mosquito Control Association
2018-current	Scholarship Committee – Texas Mosquito Control Association
2016-current	Vector-Borne Disease Task force - City of San Antonio Metropolitan Health
2021-2022	1st Vice President – Texas Mosquito Control Association Board
2020-2021	2nd Vice President - Texas Mosquito Control Association Board
2017-2021	Secretary – Texas Mosquito Control Association Board
2015-2019	LSAMP & CIMA Local Coordinator and Mentor – NSF-CIMA Undergraduate Research Grant in collaboration with the Alamo Colleges
2019	LSAMP & CIMA Local Workshop director – Ran three separate workshops for CIMA undergraduate researchers on writing an abstract, a statement of purpose and applying for travel grants. Summer 2019
2019	Educator – Western Gulf Center of Excellence for Vector Borne-Diseases Master Vector-borne diseases certification management course: Mosquito Research in San Antonio Updates
2018	Chair - Sexual Harrassment Policy Development Committee, Southwestern Association of Parasitologists
2017	Educator – Western Gulf Center of Excellence for Vector Borne-Diseases Master Vector-borne diseases certification management course: Introduction to Mosquito Biology
2015	President – Southwestern Association of Parasitologists
2014	USDA Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers Grant Scholarship – TAMUSA advisor

Reviewer

2024	Parasites and Vectors
2023	Comparative Parasitology
2023	Preventative Medicine Reports
2022	Pathogens and Global Health
2021	Journal of Medical Entomology
2021	Scientific Reports (Nature)
2021	Pest Control
2020-2021	Parasitology Research
2020	Journal of the American mosquito Control Association
2020	Medical and Veterinary Entomology
2018	Text-book Review – Brusca and Brusca <i>Invertebrates</i> (3e)
2014-2016	United States Department of Agriculture (USDA) Hispanic-Serving Institutions (HSI) Education Grants Program – Grants Review Panel
2011	Journal of Vector Ecology

Community Service based on Professional Expertise

- 2024-current Piper Professor Selection Committee, Minnie E. Piper Foundation. Select the top 10 faculty across the State of Texas for Teaching Excellence.
- 2016-current Panel Expert – Zika Task Force San Antonio Metropolitan Health District
- 2018 Invited Speaker – University Club – “Genetic Modification in mosquitoes”.
- 2016 Invited Speaker - San Antonio Women’s Chamber of Commerce: Smart Women Series - “Smart Women know the facts about Zika”
- 2016 Invited Speaker - San Antonio Public Library Science Series: Cody Public Library “Important facts about Zika and the mosquitoes that transmit”
- 2012 CORE 4 STEM – Science Olympiad Workshop and Presentation – UTSA
- 2012 TAMU-SA Liaison for Native Plant Society of Texas – San Antonio Chapter: Landscape Certification Program
- 2012 TAMU-SA Liaison for PEER Perspectives – Partnership for Environmental Education and Rural Health – Agricultural Teachers Workshop
- 2011 Liaison - AgriLife Extension Renewable and Natural Resources for placement of Student Interns.

SERVICE TO THE UNIVERSITY

FACULTY SENATE

- 2022-current *Vice President*
- 2021-current *Co-Chair: University Core Curriculum Committee*
- 2021-current *Chair: Faculty evaluation of Chairs and Deans.*
- 2020-current Senator Department of Life Science
- 2020-current *Chair: Faculty Ombudsperson Committee*
- 2020-current Writing across the curriculum committee
- 2017 High Impact Practices Ad Hoc Committee
- 2013-2014 Immediate Past President
- 2012-2013 *President*
- 2011-2012 *Vice President*
- 2011 Drafter of the first Faculty Senate Constitution

SEARCH COMMITTEES

- 2024 Co-Chair: Catalogue and Curriculum Coordinator (Office of Academic Affairs)
- 2024 *Chair: Laboratory Manager in Biology*
- 2024 *Chair: Adjunct Faculty in Biology*
- 2024 *Chair: Administrative Associate – Department of Natural Sciences*
- 2023 *Chair: Administrative Associate – Department of Natural Sciences*
- 2023 President of Texas A&M University – San Antonio: Faculty Representative on Advisory Committee
- 2022 Administrative Assistant – Life Sciences
- 2021 *Chair: Tenure-track Faculty– Animal Physiology*
- 2021 Tenure-track Faculty - Bioinformatics
- 2021 Laboratory Manager - Biology
- 2020 *Chair: Tenure-track Faculty– Wildlife Biology*
- 2010-2019 *Chair: Biology Adjunct Hiring*

2018 Tenure-Track Faculty – Systematist
 2018 Professional Biology Tutor – Tutoring Center
 2018 Lecturer - Anatomy Physiology
 2017 *Chair:* Tenure-track Faculty – Developmental Biology
 2016 *Chair:* Tenure-track Faculty – Immunology
 2016 *Chair:* Tenure-track Faculty – Population Genetics
 2016 Director of First Year Experience
 2016 Lecturer – Wildlife Biology
 2016 Lecturer – Anatomy & Physiology
 2014 Tenure-Track Faculty – Chemistry
 2013 *Chair:* Tenure-Track Faculty - Animal Physiology
 2013 Laboratory Manager – Biology
 2013 Tenure-Track Faculty – Microbiology
 2012 Vice President of Student Affairs
 2012 School Head (Dean) of Arts & Sciences
 2011 *Chair:* Laboratory Manager – Biology

FACULTY and ADMINISTRATIVE EVALUATIONS

2021-2023 *Chair:* Deans and Chairs Evaluation Committee
 2021 *Chair:* College of Arts & Sciences Tenure and Promotion Committee
 2021 Department of Life Sciences Faculty Evaluation Committee
 2020 Department of Life Sciences Tenure and Promotion Committee
 2020 *Chair:* Department of Life Sciences Faculty Evaluation Committee for Annual Reviews
 2017-2019 *Chair:* Department of Science and Mathematics Faculty Evaluation Committee for Annual Reviews
 2018-2019 Department of Science and Mathematics Tenure and Promotion Committee
 2017 College of Arts & Sciences Tenure and Promotion Committee

UNIVERSITY INFRASTRUCTURE and FACILITIES

2024-current Outdoor Classroom Planning Team
 2022-2023 Employee Engagement Task Force
 2021-2023 Health Initiatives – Provost-lead committee to identified needs and opportunities for health-related initiatives.
 2021-2022 Integrated Communications Task Force – Identify, develop and implement procedures and processes for an integrated university-wide communications plan.
 2021 BluePrint 2021 Working Group– Health and Safety Protocols (COVID-19 response)
 2019 Revision of Master Plan Steering Committee - Arts & Sciences Faculty Representative
 2016 Master Plan Steering Committee - Arts & Sciences Faculty Representative
 2016-2018 Lead: Biology faculty Science Technology Building design
 2015-2018 Downward Expansion Super Group
 Admissions Subcommittee
 Definitions Subcommittee
 Jaguar Track Subcommittee
 Budget Subcommittee

- 2015-2016 Science & Technology Building Programming committee - Arts & Sciences Faculty Representative
- 2014-2016 Environmental Health and Safety Committee
- 2014-2016 Animal Care and Use Creation Committee
- 2014 Council on Assessment, Planning and Budgeting (CAPB)
- 2013-2014 Science and Technology Building – STEM programming team (first round)
- 2012-2014 Central Academic Building – planning & advising of new biology labs
- 2011-2012 Water Conservation and Technology Committee – science faculty representative
- 2011 Chair of SACS Physical Resource Committee
- 2011 Development of future academic involvement in the Irrigation Research Center planned for the new campus of TAMUSA

UNIVERSITY CURRICULUM DEVELOPMENT and ASSESSMENT

- 2021-2023 *Co-Chair:* University Core Curriculum Committee
- 2016-2018 *Chair:* Undergraduate Research as a High Impact Practice
- 2016-2017 Academic Plan Committee
- 2016-2017 High Impact Practices Committee
- 2016-2017 Definitions Committee
- 2014 *Chair:* Core Curriculum Committee – Natural Sciences courses
- 2011-2012 *Chair:* Curriculum Committee College of Arts & Sciences

UNIVERSITY MISCELLANEOUS

- 2019 Texas Women’s Forum Lunch with speaker Elaine Mendoza Regent for the Texas A&M system – Faculty Representative
- 2018-2019 University Outstanding Senior Award committee
- 2018 University Admission Standard committee
- 2018 Texas Women’s Forum Lunch with speaker Colleen Bridger Head of San Antonio Metropolitan Health District – Faculty Representative
- 2018 First-Year Experience: Family First Series. Gave a presentation to parents of first-year students entitled: “Expectation of Students & Support from Family. A Faculty Member’s Perspective”
- 2017 Academic Calendar Committee
- 2015 Student Government Association Election Review
- 2011-2013 President’s Leadership Council

BIOLOGY PROGRAM as Faculty member (separate from Program Coordinating)

- 2011-2023 Biology Program Coordinator
- 2017-2023 Biology Master’s/Ph.D. Program committee
- 2011-2022 *Advisor:* Biology Club
- 2017-2021 Curriculum Assessment Committee Biology Program
- 2019-2021 Tenure & Promotions Biology Program Guidelines committee
- 2020 Mentor: Internship in Biology: 2 students who conducted internships at The San Antonio Botanical Society and Wildlife Rescue – Summer 2020
- 2019 Mentor: Internship in Biology: student who conducted internships at Medical Offices

- 2013-2014 STEM-ulate at San Antonio College – Science Showcases: Booth for TAMUSA Biology Program
- 2011-2013 Liaison – Medical School Recruiting: Universidad Autonoma De Guadalajara School of Medicine (an HSI)
- 2012 Biology Program Update Presentation – to Alamo Colleges Advisors

SERVICE TO THE COMMUNITY

- 2012-current *Director*: San Antonio Regional Science Olympiad held yearly at TAMU-SA
- 2019 & 2021 Stevenson Middle School Gifted & Talented Science Workshop: hosted 35 students at A&M-SA in two laboratory sessions for DNA extraction and analysis.
- 2019 & 2021 Workshop Leader: St. Phillip’s college Women Breaking Through-Annual Conference for high school women.
- 2011-2018 Volunteer – Book Fairs (Steubing Elementary and Stevenson Middle School NISD)
- 2016 Volunteer – Career Day – Scobee Elementary
- 2012-2016 Steubing Elementary School PTA
- Parliamentarian 2015-2016
- Secretary 2014-2015
- Vice President-Legislative Action 2012-2014
- 2010-2014 Volunteer “ Bootanica” at the San Antonio Botanical Gardens
- 2012 Visiting Entomologist – KinderCare Learning CentWE
- 2011 Volunteer at the State Competition for the Science Olympiad, College Station Texas.
- 2011 Virtual Lab Presentations to each 5th grade class at Steubing Elementary school
- 2010-2011 Science Fair presentation to students and parents at Elm Creek elementary
- 2010 Science Fair judge at Elm Creek elementary school

SERVICE PRIOR TO TEXAS A&M-SA

- 2010 Elementary School Science Fair Judge – St. Joseph’s School, Fort Collins, CO
- 2003 Visiting Science and Physical Education Teacher – 3rd and 4th Grade at Putnam Elementary School, Fort Collins, CO Funded through NIH Science Education Partnership Award (SEPA) Program
- 2002-2003 Secretary: Colloquium of Life Sciences at Colorado State University
- 2002-2003 Search Committee for Department of Biology Chair Colorado State University
- 2001-2002 President: Graduate Student Association in Department of Biology – Colorado State University
- 2002 Student Representative to Executive Committee – American Society of Parasitologists
- 1993-1995 Vice President and Treasurer – Student Alumni Association: University of Nebraska
- 1995 Senator - Association of Students at the University of Nebraska
- 1995 Historian – Mortar Board National Senior Honor Society
- 1994-1995 Event Coordinator - Golden Key National Honor Society
- 1992-1995 Nebraska Cornhuskers Football Recruiter
- 1992-1995 Alpha Phi International Fraternity