

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

Associate Dean, College of Arts & Sciences

Professor of Biology

Texas A&M University – San Antonio

EDUCATIONAL BACKGROUND

2005-2010	Postdoctoral Research Associate , Colorado State University Arthropod-Borne Infectious Diseases Laboratory.
2000-2005	Ph.D. in Zoology , Colorado State University-Fort Collins, Department of Biology
1996-1998	M.S. in Biology , University of Nebraska-Lincoln, Department of Biological Sciences
1993-1995	B.S. in Biology , University of Nebraska-Lincoln, Department of Biological Sciences

LEADERSHIP EXPERIENCE

UNIVERSITY

2026-Current	Associate Dean, College of Arts & Sciences , Texas A&M University-San Antonio Significant Outcomes: In the first two months in this position - worked with the new interim dean to advance the college's strategic plan by establishing targeted, faculty-led committees to carry out specific strategic initiatives. Developed a practical guide for new chairs in the CoAS and compiled the various timelines for university-wide yearly initiatives. Re-established and strengthened the CoAS's role in the development of the Espada Tract as a joint community and academic initiative, in collaboration with the San Antonio River Authority. The college has more than 250 faculty, Duties: • Oversee the College curriculum process, including supporting departments and programs in curriculum development, revision, and review. • Oversee College assessment activities, including program reviews, Institutional Effectiveness Plans and Reports, Student Learning Outcomes, and Programmatic Outcomes. • Support student success and retention efforts in collaboration with the Associate Vice Provost for Student Success and Retention. • Provide leadership for faculty development. • Support the development and maintenance of healthy departmental cultures. • Support College events and outreach activities. • Support College marketing efforts. • Develop and support external and community partnerships. • Manage student concerns and complaints. • Lead or support special projects based on College needs. • Support the Dean in advancing the academic mission and overall operations of the College.
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2023-2026

Chair, Department of Natural Sciences, Texas A&M University-San Antonio

Significant Outcomes: Brought together three academic programs, Biology, Chemistry, and Water Resources Science and Technology, into a new unified department, enhancing faculty morale through transparency, advocacy, and accountability. Eliminated silos with monthly meetings, a departmental budget committee, and a program coordinator team to foster cross-program synergies. Introduced equitable office assignment processes and established budget transparency by sharing annual summaries and forming annual workshops to strategize spending. Improved course scheduling across programs and increased faculty participation in student recruitment through a team-oriented approach to volunteerism. Facilitated and helped coordinate the Water Resources program review. Established a Chemistry advisory board and facilitated local internship opportunities. Advocated with faculty and dean for \$500,000 in research support, including a Dive Program, research-grade greenhouses, and vivarium facilities with biosafety compliance. Prompted the creation of a short-term ad hoc HR task force to streamline hiring and collaborated with Athletics leadership on improvement of communications and accommodations among student-athletes, faculty, and coaches. With faculty, proposed a Biomedical Sciences degree. Secured and hired 4 tenure-track faculty and 5 professional track. Worked with dean and business coordinators to effectively use PUF funds to build better start-up funding options. Launched a faculty mentorship program and piloted a Graduate Mentorship Academy in collaboration with Texas A&M College Station. Strengthened staff morale with collaborative communication and timely feedback.

Duties:

- Oversee the academic programs within the department (Biology, Chemistry, Water Resources Science & Technology); 21 faculty, 4 staff, ~900 students
- Manage departmental budgets, ensuring resources are allocated effectively to support teaching, research, and program growth.
- Responsible for approving curriculum changes, ensuring course schedules align with student graduation needs, and maintaining high enrollment levels.
- Lead faculty recruitment, hiring, and development, including mentoring and evaluating faculty performance through annual evaluations and promotion & tenure.
- Advocate for department resources, facilitate research opportunities, and ensure compliance with institutional policies.
- Represent the department in meetings with university leadership and external stakeholders, including facilitating faculty representation on college committees.
- Resolve conflicts between students, faculty, and staff.
- Continue to teach (3 courses/year) and engage in active research.

2023 6mo.

Interim Chair, Department of Life Sciences, Texas A&M University-San Antonio

Significant Outcomes: Assisted in reorganizing College of Arts & Science programs from five departments into seven, reallocating monetary, physical, and staff resources. Continued guidance of the Psychology program during structuring its new Master's degree, focusing on hiring and supporting graduate teaching assistants (TAs). In the Biology program, facilitated faculty input on appointing a new program coordinator,

leading to the creation of two distinct roles: program representation and scheduling coordination.

Duties:

- Oversee the academic programs within the department (Biology and Psychology).
- Transition the Life Sciences Department into two new Departments: Natural Sciences and Health & Behavioral Sciences.
- Manage departmental budgets through end of fiscal year.
- Advocate for department resources to ensure proper allocation through transition.
- Represent the department in meetings with university leadership and external stakeholders, including facilitating faculty representation on college committees.
- Resolve conflicts between students, faculty, and staff.
- Continue to teach (3 courses/year) and engage in active research.

2011-2023

Program Coordinator, Biology, Texas A&M University-San Antonio

(**Associate Chair** at most universities; the title did not exist in the CAS until 2023.)

Significant Outcomes: Established the Biology program at A&M-SA as its first full-time tenure-track faculty member and led its development until 2017, when a formal chair was hired. Navigated the program through significant growth and leadership changes as the university expanded from 1,300 to over 7,000 students. Secured the first dedicated program budget and repurposed laboratory spaces, establishing A&M-SA's first biological research labs in 2013. These efforts, alongside expanded course offerings and successful faculty searches, increased program enrollment from 100 majors in 2010 to over 700 in 2023, making it the largest program at the university. Acted as the primary liaison for Biology in the planning and construction of teaching and research labs across three new campus buildings. Expanded the program to include lower-division coursework in 2016, enabling a full four-year degree plan, and developed four additional degree tracks: Ecology, Zoology, Cell & Molecular Biology, and Pre-Health. Oversaw the creation of the MS in Biology curriculum and established the program's first course rotation, including new university-wide time slots for laboratory courses. Advocated for and hired three laboratory managers, initiated an undergraduate research program, and forged a partnership with the Alamo Community Colleges under the CIMA/LSAMP NSF Grant. Led the development of the program's tenure and promotion guidelines.

Duties:

- Managed program planning and development
- Served as the program's primary contact and spokesperson, and managed program meetings.
- Led biology curriculum development, oversaw annual curriculum offerings, prepared curriculum change proposals, updated the catalog, and communicated with academic advisors.
- Developed course rotation schedule and semester schedules.
- Assigned undergraduate and graduate teaching assignments and create annual workload reports.
- Coordinated and reported on the assessment of the general education core curriculum.

- Generated Institutional Effectiveness Reports and Plans for accreditation and assessment.
- Identified, recruited, and hired adjunct faculty.

2021-2023 **Faculty Senate President & Vice President** (Vice President 2021-2023, President 2011-2013, Vice President 2011-2012)

Significant Outcomes: Drafted the first constitution of the A&M-SA Faculty Senate and served as its second president, establishing a working relationship with the university's first provost. Chaired the ad hoc committee that set standards for high-impact practices during the program's downward expansion. Secured funding for and chaired the committee that created the first faculty ombudsperson position. Led the development of the first campus-wide assessment of Chairs and Deans by faculty, drafting the evaluation tool and launching it in spring 2022. Organized the inaugural Faculty Senate workshop retreat on Shared Governance. As chair of the University Core Curriculum Committee, revamped the assessment tool, standardized membership, and advocated for program-specific assessment coordinators.

Duties:

- Create agendas and lead monthly faculty senate meetings as President.
- Oversee all faculty senate committees, ensuring accountability.
- Represent the faculty in bi-weekly meetings with University President and Provost.
- Represent the faculty at various events and on high-level search committees, including the 2023 Presidential Search Advisory Board.

LEADERSHIP - OTHER ACADEMIC ENTITIES

2026-Current **Board Member (*ex officio*) and home institution liaison, Council of Colleges of Arts & Sciences (CCAS)**

2025-Current **Facilitator, Council of Colleges of Arts & Sciences (CCAS)**

Significant Outcomes & Duties: Facilitated multiple topic-based discussion sessions during three 2-day workshops for new Department Chairs, one in Wichita, KS, Santa Fe, NM, and New Orleans LA. Opening presentation: "The Chair as Academic Leaders".

2025-Current **HERS (Higher Education Resources) LUCE STEM Fellow: Session & Workshop Leader**

Significant Outcomes & Duties: As part of a cohort of seven other fellows, developed a plenary session and workshop for the upcoming HERS HLI National Reunion conference. The plenary session includes a panel discussion with former university presidents and chancellors on leadership in STEM, focusing on navigating institutional challenges, advancing equity, and preparing future leaders. The workshop involves how to develop a sustainable network through a hub and spoke model.

- 2012-Current **Director, San Antonio Regional Science Olympiad**
Significant Outcomes & Duties: Founded and directed San Antonio’s first regional Science Olympiad (2012–present), leading 13 annual events with 24 teams and ~250 students across 40+ STEM competitions. Recruited and managed student volunteers, coordinated event staff, and oversaw all operational, logistical, and communication aspects, including scheduling, facilities, materials, and stakeholder engagement, while serving as the primary liaison with coaches and state organizers.
- 2021-2024 **President & President Elect, Texas Mosquito Control Association**
Significant Outcomes & Duties: Created a task force to increase membership among the academic entities involved in vector control research. Developed a standing committee for student scholarships and presentation awards. Transitioned annual board meetings to virtual to improve attendance and decrease costs. Restructured the mission and vision statement. Recruited an international keynote speaker who worked on Malaria in Africa.
- 2014-2015 **President & President Elect – Southwestern Association of Parasitologists**
Significant Outcomes & Duties: Responded to and initiated a sexual harassment policy for the regional society consistent with the national organization. Organized the program and social activities for the regional meetings. Ran the business meetings.
- 2019 **Symposium organizer – “Urban Ecology of Disease Vectors” - Annual Meeting Society for Vector Ecology, September 2019, San Juan, PR**
Significant Outcomes & Duties: Contacted 20+ potential researchers in the field of urban ecology and successfully recruited 8 internationally known speakers. Facilitated and lead the symposium and gave a talk within the symposium as well. Brought the speakers together at the end for a collaborative dinner to exchange ideas.

LEADERSHIP TRAINING

- 2025 Higher Education Resources Services (HERS) Leadership Institute and LUCE STEM Fellow: Colorado School of Mines, Golden, CO June 9-18th, 2025.
- 2024 Graduate Mentoring Academy, Virtual – Texas A&M University. 9 1-hour workshops to improve faculty mentorship of graduate students.
- 2023 Council for Colleges of Arts & Sciences (CCAS) Workshop 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 – August 1- 4th.
- 2022 American Association of State Colleges and Universities (AASCU) Emerging Leaders Program, Washington, D.C. June 15-17th, then virtually July-September.
- 2011 Annual Latino Higher Education Leadership Institute “Envisioning our Future, Acting on our Vision”. Hispanic Association of Colleges and Universities (HACU) 25th Annual Conference, San Antonio, TX

SIGNIFICANT AWARDS

- 2025 **Park Naming Honor - *Wise de Valdez Park***, VIDA San Antonio, San Antonio, TX
Awarded March 2025: A public park within the VIDA San Antonio community was named “Wise de Valdez Park” in recognition of my contributions as an educator, mentor, and community partner. The park, located at 1444 Bertha Branch in the VIDA mixed-use neighborhood adjacent to Texas A&M University–San Antonio, features public gathering space, benches, and the community art installation “It Takes All Kinds,” celebrating diversity and neighborhood connection. The naming followed community nominations and a formal dedication ceremony attended by local residents, university colleagues, and community leaders.
- 2022 **The Piper Professor Award** - *The Piper Professor Award from the Minnie Stevens Piper Foundation 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 – The fellowship links USDA and Hispanic-Serving Institutions to help build awareness in Hispanic communities of USDA services, resources, and employment opportunities.*

UNIVERSITY EXPERIENCE

Academic Positions

- 2023-current Professor, Biology Texas A&M University-San Antonio
- 2016-2023 Associate Professor, Biology Texas A&M University-San Antonio
- 2010-2016 Assistant Professor, Biology Texas A&M University-San Antonio
- 2002-2009 Adjunct Faculty, Natural Sciences Front Range Community College, Fort Collins, CO
- 2002-2005 Part-time Instructor, Biology Colorado State University, Fort Collins, CO
- 2000-2005 Graduate Teaching Assistant, Biology Colorado State University, Fort Collins, CO
- 1999-2000 Volunteer ESL Faculty, Metropolitan Community College, Omaha NE
- 1994-1998 Undergraduate and Graduate Teaching Assistant, University of Nebraska-Lincoln

Faculty and Administrative Evaluations (aside from those as Department Chair)

- 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

Faculty & Student support

2025-current	Strategic Scheduling Task Force to make a more student-friendly scheduling effort.
2025-2026	Transfer Student Faculty Panel
2025	College of Arts & Sciences Faculty Grants Revision committee
2024-2025	Adjunct Pay Adjustment Task force
2024	Graduate Mentoring Academy (GMA), Virtual – Texas A&M University. 9 1-hour workshops to improve faculty mentorship of graduate students.
2023	Alumni reunion faculty speaker
2018-2019	University Outstanding Senior Award committee

University Infrastructure and Facilities

2023-current	Green House/Community Gardens Development Team
2023-2025	Espada Tract Development Team
2022-2023	Employee Engagement Task Force
2021-2023	Health Initiatives – Provost-lead committee to identify 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
2017	Academic Calendar Committee
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	<u>Chair</u> : SACS Physical Resource Committee
2011	Development of future academic involvement in the Irrigation Research Center planned for the new campus of TAMUSA

University Curriculum and Assessment

2025	External Program Reviewer – Biology Program Review City College of New York (CCNY) April 28-31
2025	University Strategic Scheduling Taskforce
2024	Represented Natural Science Curriculum for ABET accreditation
2021-2023	<u>Co-Chair</u> : University Core Curriculum Committee
2016-2018	<u>Chair</u> : Undergraduate Research as a High Impact Practice
2016-2017	Academic Plan Committee
2016-2017	High Impact Practices Committee
2016-2017	Definitions Committee
2014	<u>Chair</u> : Core Curriculum Committee – Natural Sciences courses
2011-2012	<u>Chair</u> : Curriculum Committee College of Arts & Sciences

Search Committees

- **Selected as the faculty representative on the 2023 Presidential Search Advisory Committee** for Texas A&M University–San Antonio.
- **Participated in senior academic and university leadership searches**, including School Head (Dean) of Arts & Sciences (2012), Vice President for Student Affairs (2012), Director of First Year Experience (2016), and Chair of Science and Mathematics (2017).
- **Served on 11 tenure-track faculty search committees** (2013–2021), serving as search committee chair for 7, across Biology and related disciplines, including Animal Physiology, Immunology, Population Genetics, Developmental Biology, Wildlife Biology, Bioinformatics, Microbiology, Systematics, and Chemistry.
- **Served as search committee chair for multiple professional staff searches** (2011–2024), including laboratory managers, administrative associates, and the Curriculum & Catalogue Coordinator.
- **Served on three lecturer searches** (2016–2018) in Wildlife Biology and Anatomy & Physiology.
- **Led Biology adjunct faculty searches for approximately a decade** (2010–2019) as search committee chair.

Outreach & Publicity

2026	Alumni Reunion Presentation – “Everything you wanted to know about mosquitoes, and even things you didn’t”, A&M-SA July.
2025 & 2026	College of Arts & Sciences Majors Fair – Planning committee
2024-2026	New Student Orientation – Student/Faculty Lunches
2024-2026	Jaguar Days, Ran the Natural Sciences Booth, March
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. Aug. 2024
2024	Represented Natural Science Curriculum for ABET accreditation
2022	Alumni Reunion Presentation – “Everything you wanted to know about mosquitoes, and even things you didn’t”, A&M-SA July.
2019	Texas Women’s Forum Lunch with speaker Elaine Mendoza Regent for the Texas A&M system – Faculty Representative
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"
2015	Student Government Association Election Review
2011-2013	President's Leadership Council

TEACHING

Teaching-Mentorship Awards & Honors

2022	Minnie Stevens Piper Professor
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: SigmaAlphaPi
2010 & 2011	Teaching Excellence Award – Texas A&M University System
2002 & 2003	Graduate Teaching Assistantship Award – Dept. of Biology, Colorado State University

Summary of courses taught

I have extensive teaching experience across undergraduate, graduate, and honors programs, covering a range of foundational, advanced, and research-focused biology courses. At Texas A&M University-San Antonio, I've taught General Biology, Ecology, Invertebrate Zoology, Biology of Disease Vectors, and Parasitology, as well as coordinating research and seminar courses. At Colorado State University and the University of Nebraska-Lincoln, I specialized in Invertebrate Zoology and laboratory instruction, while at Front Range Community College, I focused on introductory biology courses both face-to-face and on-line.

Undergraduate Students Trained

- I have mentored **63** A&M-SA undergraduate students in research from 2012-current.
- 38% of these students pursued graduate or professional degrees
- 77% of these students were women
- 72% of these students self-identified as a minority
- 87% have attended a scientific conference; 18 -oral presentations and 25 poster presentations.
- 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

Graduate Students Mentored (*indicates supervisory role)

2026-current	Aurelia Rodriguez – Masters of Science in Biology: Thesis topic TBD
2023-2025	Sarah Palmeri* – Masters of Science in Biology: "Characterization of the Gut Microbiome of Blackflies (Simuliidae) Across Life Cycle States and Larval Habitats".
2022-2024	Ashley Aguilar* – Masters of Science in Biology: "Mosquito species diversity and feeding preferences in two Zoological Parks in Texas".
2017-2018	Oluwaseun Aloba – Texas A&M University Masters of Public Health (MPH). Urban Distribution of Medically Important Mosquitoes in San Antonio, TX

Grant-Funded Undergraduate Research Mentorship

- 2021-Current Faculty Mentor: 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 – current.
- 2015-2024 Campus Liaison & Faculty Mentor: NSF/CIMA (Ciencia, Ingeniería, y Matemáticas Aliados) / LSAMP (Louis Stokes Alliance for Minority Participation Baccalaureate (B2B) Program) – 2015-2017, 2019, 2022-2024

Professional Development in 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”

SCHOLARSHIP

Scholarly Honors and Awards

- 2026 Newton Kingston Lecturer – Rocky Mountain Conference of Parasitology
- 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. Terwilliger 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

- ‡Aguilar, A., D. Rajamanickam, D. Guerra, J. Pitts, and ***M. R. Wise de Valdez**. 2026. Urbanization shapes mosquito community composition and host choice in two zoological parks in Texas, U.S.A. *Journal of Medical and Veterinary Entomology*, *In revisions*
- **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, <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* (Nematomorphoa: 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 densovirus* (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* densovirus (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 sillasenorum*, 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)

Invited Contributions

- **Jaguar Journal** – New World Screwworm Explained, <https://news.tamusa.edu/2026/07/Jaguar-Journal-New-World-Screwworm-Explained.html>: July 2026
- **STAT** (media company focused on finding and telling compelling stories about health, medicine, and scientific discovery) – *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-repelentes-naturales-165633720.html>

- **Eco-21 Brazil:** *Invited contributor:* “ Mosquitoes *Aedes aegypti* amam picar as pessoas”. February 2016
[Link to the Eco-21 article](#)

Funded Grants and Contracts– TOTAL \$371,721

<u>External</u>	<u>Total = \$335,191</u>
2019-current	City of San Antonio Metropolitan Health District, Renewed annual Contract for Mosquito Speciation for Public Health Services \$19,200/year, total: \$115,200 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
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
<u>Internal</u>	<u>Total = \$37,330</u>
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. "Urban Mosquito Ecology and Urban Undergraduates: A Match Made in San Antonio, TX. Texas A&M San Antonio Foundation Board Annual Meeting (August, 2024) **INVITED**
- *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. "Parasitoid-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 *Metamara 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)

- †Rodriguez, A. and *Wise de Valdez, Spatial analysis of heartworm-positive mosquitoes in an economically segregated metropolis: A study design. Texas A&M University-San Antonio Student Research Symposium, April 2026 **AWARD WINNER**

- ‡Hudson, J. Lara, J. and Wise de Valdez, M. Five years of vector surveillance: Patterns of mosquito abundance, species diversity, and arboviral prevalence in San Antonio, TX. Southwestern Association of Parasitologists, University of Oklahoma Biology Station, April 2026
- ‡Palmeri, S., Favela, K., Moss, T., and Wise de Valdez, M. Characterization of the gut microbiome of blackflies (Diptera: Simuliidae) across developmental stages and season. Southwestern Association of Parasitologists, University of Oklahoma Biology Station, April 2026 **AWARD WINNER**
- ‡Rodriguez, A. and *Wise de Valdez, Spatial analysis of heartworm-positive mosquitoes in an economically segregated metropolis: A study design. Southwestern Association of Parasitologists, University of Oklahoma Biology Station, April 2026
- ‡Palmeri, S., Moss, T, and Wise de Valdez, M. Characterization of the gut microbiome of black flies (Simuliidae) across life cycle stages and seasons. Texas Mosquito Control Association, El Paso, TX (Oct. 2025)
- ‡Moss, T. Sarah Palmeri, Megan Wise de Valdez. Site Characterization using Inorganic Nutrients and Biotic Factors in Two Creek Systems to Inform Blackfly Gut Microbiome Studies. Texas Mosquito Control Association, El Paso, TX (Oct. 2025)
- ‡Palmeri, S., Moss, T, and Wise De Valdez, M. Characterizing blackfly diversity, distribution, and larval habitats in an urban Texas environment. Southwestern Association of Parasitologists, University of Oklahoma Biology Station, April 2025
- ‡Palmeri, S. Exploring blackfly ecology in Texas: Population trends, Habitat Variation, and Future Research Directions. Texas A&M University-San Antonio Student Research Symposium, April 2025
- ‡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. 2022 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).
- Tingkan, 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)

Undergraduate Research Mentorship Presentations

- *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 Gannett) – “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/>
- 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. <https://www.scientificamerican.com/issue/sa/2011/11-01/>

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 (June, 2017)
<http://foxsanantonio.com/news/local/local-experts-share-zika-warning-after-6-pregnant-women-in-houston-area-test-positive>
- Featured in **San Antonio Express News** (May, 2107)
<http://www.mysanantonio.com/news/local/article/Professor-in-San-Antonio-gears-up-to-study-11134281.php>
- 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 Meetings Attended

National-International

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

Regional

2013-2026	Texas Mosquito Control Association - annually
1996-2026	Southwestern Association of Parasitologists. - annually
2016	Southwestern Branch of the Society of Entomologists, Regional Meeting Attended: 2016

SERVICE

Service Honors & Awards

2023	Texas A&M University Presidential Search Advisory Committee - Recognition
2022	Nominated and Attended the American Association of State Colleges and Universities Emerging Leaders Program
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 University

See above under University Experience

Service to the Biology Program *(separate from Program Coordinating)*

2011-2023	Biology Program Coordinator
2017-2023	Biology Master’s/Ph.D. Program committee
2011-2022	<i>Advisor:</i> 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 Profession

Service within professional entities

National-International

- 2022-current Editorial Board for the Helminthological Society of Washington's journal, Comparative Parasitology. https://www.helmsoc.org/HelmSoc_site/helmsoc/editors.html
- 2023-2024 American Society of Parasitologists – 1) Public Relations Committee, 2) Student Presentation Awards Committee, 3) Resolutions Committee
- 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-current President – Texas Mosquito Control Association
- 2022-2023 President Elect - Texas Mosquito Control Association
- 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 Harassment 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	<u>President</u> – Southwestern Association of Parasitologists
2104	<u>President Elect</u> - Southwestern Association of Parasitologists
2014	USDA Outreach and Assistance for Socially Disadvantaged Farmers and Ranchers Grant Scholarship – TAMUSA advisor

Reviewer

- Served on the USDA Hispanic-Serving Institutions Education Grants Review Panel for three consecutive years (2014–2016).
- Peer reviewer for 14 scholarly journals/publishers from 2011–2026, with recurring review service for *Parasites & Vectors* (2023–2025) and *Parasitology Research* (2020–2021).
- Reviewed manuscripts across parasitology, medical and veterinary entomology, vector ecology, infectious disease, and public health, including for *Scientific Reports (Nature)*, *Journal of Medical Entomology*, *Medical and Veterinary Entomology*, and *Journal of Parasitology*.
- Invited textbook reviewer for the 3rd edition of Brusca & Brusca’s *Invertebrates* (2018).

Community Service based on Professional Expertise

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 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
	<u>Parliamentarian</u> 2015-2016
	<u>Secretary</u> 2014-2015
	<u>Vice President</u> -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

Undergraduate and Graduate Leadership

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