

Amanda M. Masino, Ph.D.
Curriculum Vitae

Education

Ph.D., Genetics and Developmental Biology, University of Texas Southwestern Medical Center, Dallas, Texas. 2005. Dissertation title: Transcriptional profiling of early cardiac development.

B.S., Zoology, Texas A&M University, College Station, Texas. 1998.

Professional History

2017- Faculty Co-Director, St. David's Foundation Scholars, Huston-Tillotson University, Austin, Texas. The **St David's Foundation Scholars Program** supports high-need, high-achieving HT freshmen who intend to enter the health care work force with a four year \$7,500 annual scholarship from the St. David's Foundation. Responsible for student outreach, selection, mentoring, and implementation of career enrichment activities such as seminars, research projects, and service learning focused on health care career paths.

2015- Director, STEM Research Scholars, Huston-Tillotson University, Austin, Texas. The **STEM Research Scholars Program** is a training initiative that provides mentored undergraduate student research opportunities at HT and with collaborating institutions. Responsible for recruiting and screening students, training students, building collaborations, managing program growth, conducting research, and managing travel and career development opportunities. Supported by the Office of Naval Research, the National Science Foundation, the Department of the Army, and the Department of Education.

2015- Associate Professor of Biology, Huston-Tillotson University, Austin, Texas

2011 -2015 Assistant Professor of Biology, Huston-Tillotson University, Austin, Texas.

Courses developed and taught include Human Anatomy and Physiology I/II, Introduction to Biology, Cellular and Molecular Biology, Environmental Biology (traditional and accelerated evening module), Laboratory Management, Molecular Immunology, Genetics, Molecular Bioinformatics, Digital Health and Cardiovascular Disparities. Designed and delivered lectures, assessments, case studies, laboratories, active learning exercises, and inquiry-based projects. *Also:*

- Principal researcher in HT's student/faculty **microbiome research program** carried out in collaboration with faculty at the University of Texas at Austin. Generated student and course research projects and built faculty research capacity at HT. Trained undergraduate researchers. Supported by the United Negro College Fund, the Office of Naval Research, and the National Science Foundation.
- Co-Director of the environmental education non-profit and HT partnering organization **The Dumpster Project**. We are transforming a used trash dumpster into a home to teach K-16 learners sustainability science in an engaging way. Designed inquiry-based formal and informal curriculum, developed project partnerships, delivered outreach content, formulated pedagogical approach.

- Advisor and faculty co-founder of HT's award-winning sustainability student organization, **Green is the New Black**. Led projects such as establishing a campus organic food garden, creating a green campus study space, coordinately led environmental enrichment at a local elementary school, piloting a composting program, inclusion in the HBCU Student Climate network, and creating an opportunity for our students to travel in a delegation to the international COP21 climate conference.
- Co-founder of the **Building Green Justice Forum**, an environmental justice conference series held at HT every fall that highlights the intersection of environmentalism and social justice. Raised funds, developed program, coordinated speakers, logistics, and communications.
- Led a student/faculty collaboration to promote environmental education and engagement in partnership with the Environmental Protection Agency **Toxic Release Inventory**. Project includes faculty and student research and community training focusing on environmental issues in east Austin.
- Developed a **Molecular Immunology undergraduate course** based on American Association of Immunologists training (funded by the Federation of American Societies for Experimental Biologists Minority Access to Research Careers).
- Generated an undergraduate **pre-medical/pre-health seminar course** (funded by the Joint Admissions Medical Program) to retain STEM freshmen.
- Established a **model organism colony** new to the department, the bean beetle, and implemented associated inquiry-based lab activities. (Supported by the Bean Beetle Curriculum Development Network.)
- Co-designed and delivered a **graduate exam preparation course** centered on transferrable critical thinking, reading comprehension, and analytic skills.
- Developed partnerships with Dell Children's Hospital, the Tropical Disease and Infectious Disease Association (MOU, course agreement), Austin Independent School District (MOU), the University of Texas (grants, collaborative research) and the University of Texas Health Science Center San Antonio (grants, undergraduate research) to provide **service, internship and research experiences for HT undergraduates**.
- Co-founder (with student officers) of a branch of MAPS (**Minority Association of Pre-Health/Pre-Medical Students**).
- Advisor to the HT branch of the **Golden Key International Honor Society**.
- Collaborated with other department faculty to introduce an integrated Human Anatomy and Physiology I/II course sequence and **revise the Biology program curriculum**.
- **Community science outreach** includes serving as a Dell Regional Science Fair judge, elementary school career day speaker, guest lecturer, elementary summer camp coordinator, and Blackshear Bridge board member.

2011

Adjunct Faculty, Department of Biology, San Antonio College, San Antonio, Texas.
 Taught Anatomy and Physiology I during Summer Session I.

- 2007 -2010 Instructor, Academic Core, Lake Washington Institute of Technology, Kirkland, Washington. Courses taught (lecture and laboratory) include Anatomy and Physiology I and II, Cellular Biology, Survey of Anatomy, and General Chemistry, among others. Prepared and delivered lectures, active learning exercises, laboratory exercises, and assessments. Designed additional material for Angel, the course management suite utilized for all classes.
- Collaborated with other faculty to design and implement a new Cellular Biology course for pre-nursing and pre-dental students and to revise laboratory exercises used in Human Anatomy and Physiology courses.
 - Designed and taught an anatomy and physiology course focused on the nervous, endocrine, and lymphatic systems for fitness students.
 - Served as co-instructor for a hybrid (online/laboratory) Anatomy course.
 - Created learning projects focused on global competencies as well as course objectives in keeping with the College's mission.
 - Coordinated a scholarship and outreach program for STEM (science, technology, engineering, and math) students.
 - Completed coursework on "Assessment of Learning."
 - Trained in effective use of course management software (Angel).
 - Completed Washington State Board for Community and Technical College faculty training (New Faculty Institute).
- 2005-2006 Senior Fellow, Departments of Pediatrics and Pathology, University of Washington, Seattle, Washington. Developed and implemented research on cardiac stem cell-based therapies for pediatric patients in collaboration with Children's Hospital of Seattle.
- Contributed to peer-reviewed published research in stem cell biology, authored and edited grants and protocols, trained in molecular pathology and stem cell techniques, coordinated research planning between partnering institutions.
 - Completed coursework in applying active learning to undergraduate biology.
 - Mentored high school students completing projects for the Biomedical Research EXPO. Advised two award-winning student teams in 2007.
- 1998-2005 Graduate Research Assistant, Department of Internal Medicine, University of Texas Southwestern Medical Center, Dallas, Texas. Devised and applied novel methodologies to study the genetics of the developing mammalian heart.
- Managed junior lab personnel and conducted their scientific and technical training.
 - Designed protocols and trained colleagues in their implementation.
 - Coordinated laboratory safety and regulation compliance for a fifteen person research laboratory.
 - Authored and edited research articles, reviews, instructional materials, technical protocols, and presentations.
 - Designed interactive learning modules for high school site visits.
 - Funded by a National Institutes of Health training grant.
- 1995-1998 Teaching Assistant and Research Intern. Texas A&M University, College Station, Texas. In coordination with a faculty mentor, planned and completed an individual research project on speciation and chromosome genetics. In addition:

- Created and implemented lesson plans, led problem-solving sessions, and created assessment materials for an Introductory Biology recitation course.
- Prepared and delivered lectures for Introductory Biology laboratory courses and an Evolutionary Biology seminar course.
- Contributed to the research of senior lab members; provided technical support.
- Funded by the Howard Hughes Medical Institute.

- 1997 Summer Research Intern, Genome Science and Technology Center, University of Texas Southwestern Medical Center, Dallas, Texas.
- Served on a team providing twenty-four hour technical assistance to a Human Genome Project center.
 - Trained in molecular genetics and contributed to ongoing research.
 - Funded by a National Institutes of Health training grant.
- 1994-1995 Lab Technician, Department of Biology, Texas A&M University, College Station, Texas.
Assisted with general laboratory tasks, reagent preparation and animal care.

Funded Grants (primary only)

Principal Investigator, “Digital Health Student Innovations for Health Disparities” Merck. 2018-2019. Funds a cohort of 10 Natural Science and Computer Science students in project-based undergraduate training in digital health and bioinformatics. \$70,000; awarded.

Faculty Co-Director, “Healthy Futures Grant” St. David’s Foundation, 2018-2022. Funds four-year scholarships for 10 health career-focused incoming freshman, coupled with academic and career enrichment. \$300,000; in progress.

Activity Director, “Environmental Justice Program Development” Department of Education Title III, 2017-2022. Funds the development of an Environmental Justice degree program, with associated courses and co-curriculars, \$329,000; in progress.

Principal Investigator, “Digital Health Solutions for Cardiovascular Health Disparities” Merck. 2017-2018. Funds a cohort of 10 Natural Science and Computer Science students in project-based undergraduate training in digital health and bioinformatics. \$70,000; completed.

Faculty Co-Director, “Healthy Futures Grant” St. David’s Foundation, 2017-2021. Funds four-year scholarships for 10 health career-focused incoming freshman, coupled with academic and career enrichment. \$300,000; in progress.

Principal Investigator, “HT-ASSERT Supplement for Faculty Research,” National Science Foundation, 2017-2019. An extension of the HBCU-UP curriculum project will facilitate faculty research into the microbial communities of built environments. \$90,000; in progress.

Principal Investigator, “Collaborative Research: Analysis of a Rapidly Evolving Potassium Channel in an Electric Fish,” National Science Foundation, 2016-2019. Collaborative proposal with the University of Texas at Austin and Michigan State University. Funds will support a summer Research Experience for Undergraduates program. \$100,000; in progress.

Project Faculty, “Healthy Futures Grant” St. David’s Foundation, 2016-2020. Funds four-year scholarships for 10 health career-focused incoming freshman, coupled with academic and career enrichment. \$300,000; in progress.

Principal Investigator, “Advancing Prostate Cancer Research by Providing Summer Research Opportunities,” Department of the Army, 2016-2018. Subaward with the University of Texas San Antonio Health Science Center. Funds support summer student research and training. \$87,000; complete.

Principal Investigator, “HT-ASSERT: Attaining and Sustaining STEM Excellence with Research Training.” National Science Foundation, 2015-2019. Project supports curriculum integration, capstone projects for Natural Science undergraduates, lab modernization, faculty training, mentored undergraduate research. \$400,000; in progress.

Principal Investigator, “RE-ENERGIZE: Recruitment and Retention of STEM Programs through Partnerships in Renewable Energy.” Subaward through Texas State University. Department of Education 2015-2017. The two year program will implement a mobile environmental science learning lab and provide faculty and student research training. \$35,000; complete.

Principal Investigator, “Analysis of voltage-gated ion channels in Antarctic fish,” National Science Foundation, 2015-2017. Subaward with the University of Texas. Funds will support student research and a joint “Molecular Evolution and Bioinformatics” course. \$76,000; in progress.

Principal Investigator, “Unified Approach to Increase STEM Undergraduate Students Employment in the Department of Navy,” Office of Naval Research, 2014-2017. Subaward with the University of Texas. Funds will support STEM student research, faculty release time, equipment, student and faculty travel, supplies. \$255,000; complete.

Principal Investigator, “Developing an Understanding of Microbial Population Structures for Transformative Education and Research (DUMPSTER),” United Negro College Fund - Mellon Mays Foundation Faculty Research Award, 2014. Funds supported development of collaborative microbial genetics project. \$15,000; complete.

Project Director, “Pre-JAMP Recruitment and Outreach Special Project” Joint Admissions Medical Program, 2013-2014. Funds supported the delivery of a seminar for health and medical-interested freshmen students that included a student research experience. \$9975; complete.

Principal Investigator, “Environmental Education and Engagement,” Environmental Protection Agency’s Toxic Release Inventory University Challenge Award. Technical support and research assistance for collaborative research provided by the EPA. In-kind; complete.

Project Director, “Expanding JAMP Recruitment at Huston-Tillotson University,” Joint Admissions Medical Program, 2012-2013. Funds supported the development of a seminar series for pre-medical and pre-health students. \$10,000; complete.

Co-Principal Investigator, “HBCU Nuclear Science Initiative,” Office of Naval Research, 2012 – 2013. Project supported curriculum development, student travel, faculty training, equipment purchases, and course supplies to promote nuclear science study and career paths for Chemistry majors. \$87,000; complete.

Other Professional Experience and Training

- 2018- University of Texas Department of Civil, Architectural, and Environmental Engineering Community Advisory Board member.
- 2018- Urban Land Institute, Affordability Strategic Council member.

- 2017- Executive Director and Co-Founder, Austin Community Data Coalition.
- 2017 Impact Hub Austin, Affordability Accelerator Inaugural Cohort member.
- 2017 Sponsored Participant, Faculty Resource Network Summer Workshop “Integrating STEM and Humanities,” New York University, New York, NY.
- 2016 Sponsored Participant, S-STEM Capacity Building Workshop, Houston, TX.
- 2015- Mayoral appointee, Zero Waste Advisory Commission, Austin, TX.
- 2014- Co-Founder and Co-Director, Building Green Justice Forum, Austin, TX.
- 2013- Co-Director, The Dumpster Project.
- 2013- Founding Co-Advisor, Green is the New Black, Huston-Tillotson University, Austin, TX.
- 2013-2018 Founding Board Member, Blackshear Bridge, Austin, TX.
- 2013 Local Organizer and Participant, Human and Invertebrate Neurobiology Techniques for Student Laboratories Workshop. AD Instruments, Austin TX.
- 2013 AAI Introductory Course in Immunology, American Association of Immunologists, Philadelphia, PA.
- 2013 Sponsored Participant, HBCU-UP Proposal Development Workshop, Quality Education for Minorities (QEM) Network, Washington D.C.
- 2012- Advisor, Golden Key International Honour Society, Huston-Tillotson University, Austin, TX.
- 2012 Sponsored Participant, Bean Beetle Curriculum Development Workshop, Emory University, Atlanta, GA.
- 2011- Joint Admissions Medical Program Faculty Director, Huston-Tillotson University, Austin, TX.
- 2007-9 GRE and iGRE Instructor, Kaplan, Inc., Seattle, WA.
- 2008 Washington State Board for Community and Technical Colleges (SBCTC) faculty training, New Faculty Institute, Everett Community College, Everett, WA.
- 2008 Assessment of Learning training course, Lake Washington Technical College, Kirkland, WA.
- 2001 Sponsored Participant, “The Id of Stem Cells,” Route 28 Workshop, Port Townsend, WA.

Honors and Awards

- 2018 Awarded tenure status at Huston-Tillotson University.
- 2018 University of Texas Tower Award for Community Service.
- 2017 “Rammie” Student Choice Award for Favorite Faculty Member at HT.
- 2014 TRI National Conference Scholarship Award, National Training Conference on the Toxics Release Inventory and Environmental Conditions in Communities.
- 2013 Federation of American Societies for Experimental Biologists Minority Access to Research Careers Award.
- 2007 Two Student Awardees Biomedical Science EXPO.
- 2004 National Institutes of Health Travel Award, Keystone Symposium on Cardiac Development and Congenital Heart Disease.
- 2003 Outstanding Basic Science Poster Presentation, Pathways to Cardiac Development and Regeneration Conference, University of Texas Southwestern Medical Center.
- 2002 Outstanding Graduate Student Poster, Pathways to Heart Failure Conference, University of Texas Southwestern Medical Center.
- 1998 American Cytogenetics Conference Student Travel Award.
- 1997 Exceptional Oral Presentation, Summer Undergraduate Research Symposium, Texas A&M University.
- 1996 National Hispanic Scholarship Fund Award.
- 1995-1998 Howard Hughes Medical Institute Undergraduate Research Intern Minority Award.

1994-1998 Texas A&M University President's Endowed and President's Achievement Scholarships.
1994 National Hispanic Scholar.
1994 National Merit Scholar.

Publications

Masino, A. and L. Vanstone. Who Can Afford Austin's Affordable Housing? A Survey of Affordable Unit Residents in the 78702 Zip Code. University of Texas at Austin Division of Diversity and Community Engagement research report, January 2018, 1-12.

Masino, A. and K. Schwab. Inquiry Labs for a Sustainable Low-Cost Biology Program. *Tested Studies for Laboratory Studies*, 2016 June; 38, Article 41.

Masino, A.M. A PCR-Based Hunt for Bean Beetle Genes: An Inquiry-Based Lab in Molecular Genetics. Bean Beetle Curriculum Development Network, 2014, *Bean Beetle Curriculum Development Network*.

Nussbaum, J., E. Minami, M. Laflamme, J. A. I. Virag, C. B. Ware, A. Masino, V. Muskheli, L. Pabon, H. Reinecke, and C. E. Murry. Transplantation of undifferentiated murine embryonic stem cells in the heart: teratoma formation and immune response. *FASEB J.* 2007 May; 21(7):1345-57.

Latif, S., A. M. Masino, and D. J. Garry. Transcriptional pathways direct cardiac development and regeneration. *Trends Cardiovasc Med.* 2006 Oct; 16(7):234-40.

Garry D. J., A. M. Masino, R. H. Naseem, and C. M. Martin. Ponce de Leon's fountain: stem cells and the regenerating heart. *Am J Med Sci.* 2005 Apr; 329(4):190-201.

Masino, A. M., T. D. Gallardo, C. Wilcox, E. N. Olson, R. S. Williams and D. J. Garry. Transcriptional profiling of cardiac progenitor cells. *Circulation Research* 2004 Aug 20; 95(4):389-397.

Garry, D. J., A. M. Masino, A. P. Meeson, and C. M. Martin. Stem cell biology and therapeutic applications. *Curr Opin Nephrol Hypertens.* 2003 Jul; 12(4):447-54.

Conference Presentations, Informal Articles, and Public Talks

A. Masino and L. Vanstone, The Dumpster Project: Space wants to kill you (and what you can do about that). Cities in Space Conference, Austin TX, Oct 2018.

A. Masino and the Austin Community Data Coalition. The Green Healthy Homes Initiative – Home Repair Program Data Analysis. Austin Home Repair Coalition meeting . August 2018.

K. Magid, A. Masino, and L. Vanstone. The Dumpster Project: Inspiration as Education, SXSW Edu, Austin, TX, Mar 2018.

A. Masino and the Austin Community Data Coalition. A Resident-Level View of Affordable Housing. Austin City UP Lunch and Learn Series, January 2018.

A. Masino, "Who Can Afford Austin's Affordable Housing?" Austin Housing Coalition, November 2017

A. Masino, L. Vanstone, and A. Taylor. A Resident-Level View of Affordable Housing. Front Porch Gathering on Affordability: University of Texas Division of Diversity and Community Engagement, November 2017.

A. Masino and L. Vanstone, From Rockets to Dumpsters: Space Travel and Space Colonies. Cities in Space Conference, Austin TX, Oct 2017.

A. Masino. Just Air. Austin EcoNetwork Blog, Oct 2017.

A Masino and G. Tillis. Social Justice for Science Majors: Incorporating Critical Pedagogy into a Freshman Seminar for Prospective Natural Science Majors. National Conference on Race in Higher Education, Fort Worth, TX, June 2017.

A. Masino. Dumpster 101: STEM and Sustainability Education. Austin Area STEM Conference. Austin, TX, August 2016.

A. Masino and Kathy Schwab. Biology on a Budget: Using Inquiry to Achieve High Learning Gains at Low Cost. Association for Biology Laboratory Education Annual Conference, Houston, TX, June 2016.

A. Broussard, K. Collins, B. Harris, and A. Masino. Delving Into the Campus Microbiome. Texas Regional Alliance for Campus Sustainability Conference, South Padre Island, TX, Feb 2016.

Masino A. and K. Magid. Engage, Educate, Act to Reshape Eco-Diversity. Texas Regional Alliance for Campus Sustainability Conference, South Padre Island, TX, Feb 2016.

Masino A. and K. Magid. Green is the New Black: Environmental Justice and HBCUs. Second Nature, Dec 15, 2015.

K. Magid and A. Masino. The Dumpster Project: Making Home in the Unlikeliest Space. Nerd Nite, Austin, TX October 2015.

Magid, K. and A. Masino. Lessons from Dumpster-Diving at Huston-Tillotson University. June 29, 2015, GreenBiz.

Masino, A and K. Magid. Huston-Tillotson University as a Sustainable Campus Case Study, ACUPCC Implementation Liaison Meeting, Baltimore, MD, March 2015.

K. Magid and A. Masino. The Dumpster Project: Campus Sustainability in Education, Outreach, and Operations. Smart Sustainable Campuses Conference, Baltimore, MD, March 2015.

Lipscombe, A. and A.M. Masino. Green is the New Black: Engage, Educate, Act. South by Southwest Eco Conference, Austin, TX, October 2014

Masino, A.M. Leveraging Pollution Information and the Toxic Release Inventory. Building Green Justice Forum, Huston-Tillotson University, Austin TX, September 2014.

Masino, A.M., A. Erazo, M. Fleming, E. Jackson, O.M. Sanchez. Green is the New Black: Building STEM Engagement through Community Pedagogy. New Horizons in Texas STEM Education Conference, Texas College and Career Readiness Faculty Collaborative Initiative, San Antonio, Texas, March 2014.

Wilson, J.G. and A. M.Masino. Dumpster 101: Developing Underutilized Methods for Promoting Sustainable, Transformative Education & Research. New Horizons in Texas STEM Education Conference, Texas College and Career Readiness Faculty Collaborative Initiative, San Antonio, Texas, March 2014.

Latif, S., J. L. Russell, A. Masino, C. M. Martin, S. C. Goetsch, E. N. Olson, and D. J. Garry. Genetic regulation and proliferative capacity of cardiac progenitor cells. American Heart Association Scientific Sessions, Dallas, Texas, November 2005.

Masino, A. M., T. Gallardo, N. Jiang, R. Harvey, E. N. Olson, R. S. Williams and D. J. Garry. Novel downstream targets of the homeodomain transcription factor *Nkx2.5* identified through transcriptional profiling. American Heart Association Scientific Sessions, New Orleans, Louisiana, November 2004.

Martin, C. M., A. M. Masino, T. D. Gallardo, J. M. Sherrell, N. Jiang, and D. J. Garry. Transcriptional networks of cardiac progenitor cells. Weinstein Cardiovascular Research Conference, Leiden, the Netherlands, May 2004.

Masino, A. M., T. Gallardo, N. Jiang, E. N. Olson, R. S. Williams and D. J. Garry. Transcriptional profiling of cardiac progenitors from wild type and *Nkx2.5*-null embryos. Keystone Symposium: Cardiac Development and Congenital Heart Disease, Keystone, Colorado, March 2004.

Masino, A. M., T. Gallardo, E. N. Olson, D. J. Garry and R. S. Williams. Genetic profiling of cardiac progenitor cells. Keystone Symposium: From Stem Cells to Therapy, Steamboat Springs, Colorado, March 2003.

Masino, A. M., C. Wilcox, R. Bassel-Duby, R. S. Williams and D. J. Garry. Isolation and characterization of cardiac progenitor cells. Weinstein Cardiovascular Development Conference, Dallas, Texas, May 2001.

Masino, A. M., C. Wilcox, T. Gallardo, R. Bassel-Duby, and R. S. Williams. Isolation and characterization of cardiac progenitor cells. Keystone Symposium: Stem Cells, Asymmetric Cell Division and Cell Fate, Keystone, Colorado, January 2000.

Masino, A. M., S. R. Denison, and I. F. Greenbaum. Subspecific variation in aphidicolin-induced chromosomal fragility in the deer mouse (*Peromyscus maniculatus*). American Cytogenetics Conference, Litchfield, South Carolina, April 1998.

Masino, A., J. Dagan, V. Goteti, G. Gotway, L. McDaniel, M. Syed, S. Williams, and R. Schultz. Genomic characterization and DNA sequencing of the Prader-Willi/Angelman syndrome region (15q11-q13). Summer Undergraduate Research Symposium, Texas A&M University, College Station, Texas, Aug 1997.

Masino, A. M., S. R. Denison, and I. F. Greenbaum. Variation in aphidicolin-induced fragile sites in the deer mouse (*Peromyscus maniculatus*). Texas Genetics Society, Dallas, Texas, March 1997.

Selected Science Outreach and Community Engagement Events

- 2018 Affordable Housing Research Speaker, Blackshear Neighborhood Association Meeting, Austin, TX.
- 2018 Faculty Panelist, Longhorn Center for Community Engagement Community-Based Learning and Research Symposium, University of Texas, Austin, TX.
- 2018 Panelist, Farm & City Breakfast Panel: Affordable Housing Solutions, Impact Hub, Austin, TX.
- 2018 Exhibitor, Maker Faire, Austin TX.
- 2017 Panelist, Diversity in Tech, Black and Latinx Founders Summit at Capital Factory, Austin, TX.
- 2017 Exhibitor and Speaker, Cities in Space Conference, Austin, TX.
- 2017 SciSaturday Presenter and Exhibitor, Texas Museum of Science and Technology, Cedar Valley, TX.
- 2017 TXMOST Talks Speaker, Texas Museum of Science and Technology, Cedar Valley, TX.
- 2017 Presenter and Workshop Leader, Austin Youth Riverwatch, Austin, TX.
- 2017 Presenter, NewCo, Austin TX.
- 2017 Exhibitor, Maker Faire, Austin TX.
- 2017 Tech Girls Presentation and Demo at Decker Middle School, Austin, TX.
- 2017 Club GEN Career Week Mentor, Gilbert Elementary, Austin, TX.

- 2017 Sustainability Camp Presenter and Workshop Leader, Boy Scouts Troop 30, Austin TX.
- 2016 Dissection Workshop Instructor, Art.Science.Gallery, Austin, TX.
- 2016 Welcoming Cities Project Panelist, Austin Global Shapers, Austin, TX.
- 2016 Thinkery “Strength in Numbers” Presenter, Austin, TX.
- 2016 We are Girls Conference Presenter, Girls Empowerment Network, Austin TX.
- 2016 NewCo Presenter, Austin TX.
- 2016 Thinkery21 “Strength in Numbers” Presenter, Austin TX
- 2016 Maker Faire Austin Exhibitor, Austin TX.
- 2016 Dumpster 101 Science Series at Blackshear Elementary Fine Arts Academy, Austin, TX.
- 2016 Earth Day Texas, Dallas, TX.
- 2016 Thinkery21 “Come to Your Senses” Presenter, Austin, TX
- 2016 Hot Science, Cool Talks, Austin, TX.
- 2015 Greater Austin Black Chamber of Commerce Community Conversation on Climate Change Panelist, Austin TX.
- 2015 East Austin Studio Tour and “Extinction” exhibition at Art.Science.Gallery, Austin, TX.
- 2015 SXSW Eco, Austin, TX.
- 2015 Subiendo Academy Panelist, Austin, TX.
- 2015 Skillpoint Alliance Velocity Program Client, Manor High School and Del Valle High School, TX.
- 2015 Tedx Youth, Westlake High School, Austin, TX.
- 2015 Earth Day Austin
- 2015 Mini Maker Faire, Austin, TX.
- 2014 iCARE camp, Huston Tillotson University, Austin, TX
- 2014 Jack and Jill camp, Huston Tillotson University, Austin, TX
- 2014 Thinkery “Junk” Exhibition, Austin TX.
- 2014 SXSW Eco, Austin, TX.
- 2014 Dumpster 101 Science Series at Blackshear Elementary Fine Arts Academy, Austin, TX.
- 2014 Mini Maker Faire, Austin, TX
- 2014 Earth Day Austin
- 2013 Del Valle Elementary Career Day
- 2013 Austin Energy Regional Science Fair

University Committee Work (not including Hiring Committees)

- Grant Compensation Policy Committee (ad hoc)
- Green Council (2014-current)
- Budget Committee (2013-current; chair 2016-17)
- Core Curriculum Committee (2013-current; chair 2017-2018)
- Institutional Review Board (2013-current)
- Faculty Advisory Council (2012-2015)
- Retention and Scholarship Committee (2012-2014)
- Graduate Exam Committee (ad hoc)

Memberships

- American Association for the Advancement of Science (2003 -)
- Association for Biology Laboratory Education (2011-)
- Texas Association of Advisors for the Health Professions (2011-)