

Enid T. González-Orta

Department of Biological Sciences • Sacramento State • 6000 J St. Sacramento, CA. 95819-6077

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EDUCATION

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| 2005-2008 | Post-Doc | U.S. Department of Agriculture-Agricultural Research Service
Crops Pathology and Genetics Research Unit
Davis, CA
PI: Dr. Daniel Kluepfel
Research Projects: (1) Global gene expression analysis of <i>Pseudomonas putida</i> KT2440 during growth in the <i>Arabidopsis thaliana</i> rhizosphere and (2) Assessing the genetic diversity of <i>Agrobacterium tumefaciens</i> in California walnut growing regions and resistance to the biocontrol agent, <i>Agrobacterium rhizogenes</i> K84. |
| 2005 | Ph.D. | Microbiology
University of Wisconsin-Madison
Microbiology Doctoral Training Program
Department of Plant Pathology
PI: Dr. Caitilyn Allen
<i>Dissertation: Plant Cell Wall-Degradation and Twin-Arginine Translocation: Exploring Ralstonia solanacearum virulence factors.</i> |
| 1998 | B.S. | Biochemistry
University of Minnesota-Twin Cities |

ACADEMIC APPOINTMENTS

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| Aug. 2014-present | <u>Associate Professor</u> , Department of Biological Sciences, California State University, Sacramento |
| Aug 2008-Aug 2014 | <u>Assistant Professor</u> , Department of Biological Sciences, California State University-Sacramento. |

LEADERSHIP APPOINTMENTS

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| August 2011-present | <u>Director</u> , Science Educational Equity Program. College of Natural Sciences and Mathematics, California State University, Sacramento. |
| October 2015-August 2018 | <u>Director</u> , Center for Science and Math Success, College of Natural Sciences and Mathematics. California State University, Sacramento. |
| March 2015-October 2015 | <u>Interim Director</u> , Center for Science and Math Success, College of Natural Sciences and Mathematics. California State University, Sacramento |

ADDITIONAL WORK EXPERIENCE

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| July 2018-present | <u>Visiting Scientist</u> , USDA-ARS, Crops Pathology and Genetics Research Unit Davis, CA, PI: Dr. Amisha Poret-Peterson |
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Sept. 2002-Dec. 2002	<u>Intern, Visiting Scientist</u> with Dr. Jan Dirk van Elsas, Crop and Production Ecology Business Unit, Plant Research International, Wageningen, the Netherlands.
July 1998-May 1999	<u>Senior Laboratory Technician</u> with Dr. Anath Das, Department of Biophysics, Biochemistry and Molecular Biology, University of Minnesota-Twin Cities.

AWARDS/HONORS

2018	Outstanding Community Service Award, College of Natural Sciences and Mathematics
2017	Sabbatical Leave, Sacramento State
2016	Outstanding University Service Award, College of Natural Sciences and Mathematics
2015	Award of the Gold Clover for 10 years of Service, Sacramento County 4-H Program.
2014	4-H Golden Clover Award. Category: Robert Brownlee Science Award.
2012	Phi Kappa Phi Honor Society, Faculty Initiate.
2011	Outstanding Faculty Award, Science Educational Equity Program and Multicultural Organization of Science Students.
2010	Annual Biomedical Research Conference for Minority Students Judges' Travel Subsidy
2010	Award of the Silver Clover for Five Years of Service, Sacramento County 4-H Program.
2010	4-H Outstanding Volunteer Award, Sacramento County 4-H Program.
2010	ASM Textbook Travel Award for the American Society for Microbiology Conference for Undergraduate Educators.
2006	USDA-ARS Spot Award
2004	Howard Hughes Medical Institute Mentoring Fellowship
1999	NIH-Biotechnology Training Grant Fellowship (1999-2005)

GRANTS AWARDED

2018	Goethe Project Funds for proposal entitled Comparative analysis of the diversity of antibiotic-producing bacteria from the Sacramento State Campus using culture dependent and culture-independent methods. \$2,286.66
2017	NSF Louis Stokes Alliance for Minority Participation and CSU Chancellor's Office Grant (subcontract-Gonzalez-Orta and McCarthy Hintz) \$50,000.
2016	NSF Louis Stokes Alliance for Minority Participation and CSU Chancellor's Office Grant (subcontract-Gonzalez-Orta and McCarthy Hintz) \$50,000.
2016	Hornet Science Scholars Program, NSF S-STEM (DUE 1644273), \$959,999 (PIs: Lundmark, Gonzalez-Orta, and Mills)
2015	UEI Campus Grant Program, Commit to Study Initiative, \$2,500 (PIs: Gonzalez-Orta, Paradis, Montanez, and Stoner)
2015	CSU STEM VISTA Program: Building Institutional Capacity for a Stronger Baccalaureate-Two VISTA volunteer placements (PIs: Gonzalez-Orta and Lundmark).
2015	NSF Louis Stokes Alliance for Minority Participation and CSU Chancellor's Office Grant (subcontract-Gonzalez-Orta and McCarthy Hintz) \$50,000.
2015	Instructionally Related Activities, SEE Research Activities, (PIs: McCarthy Hintz, Quinones-Soto, and Gonzalez-Orta) \$14,829.
2014	NIH-NIGMS Bridges to the Baccalaureate Grant Extension for the Science Transfer Project, \$63,433 (PI: Gonzalez-Orta and Co-PI: McCarthy Hintz).

2014	NSF Louis Stokes Alliance for Minority Participation and CSU Chancellor's Office Grant (subcontract-Gonzalez-Orta and McCarthy Hintz) \$50,000.
2013	NSF Louis Stokes Alliance for Minority Participation and CSU Chancellor's Office Grant (subcontract-Gonzalez-Orta and McCarthy Hintz) \$60,000.
2013	Instructionally Related Activities, SEE Research Activities (McCarthy Hintz-PI; Gonzalez-Orta, Co-PI) \$6,000.
2013	Associated Students, Incorporated. Health Professions Pipeline Partnership Project. \$1,000.
2012	University Enterprises, Inc. Campus Grant Program. SEE Pre-Health Professional Workshop Series \$2,000 (PIs: Gonzalez-Orta and Aguirre).
2012	Pedagogy Enhancement Award. Revision and pedagogical enhancement of the General Microbiology Laboratory (BIO 139-Gonzalez-Orta, Kirvan, and Bendorf).
2011	University Enterprises, Inc. Campus Grant Program. Microbial Diversity at California State University, Sacramento \$2,500.
2011	The California Wellness Foundation (2011-2014) for the proposal <i>Preparation of Pre-Health Professional Students: The Source for Diversity in the Health Professions</i> \$160,000. (PIs: Gonzalez-Orta and McCarthy Hintz)
2010	California State University Program for Education and Research in Biotechnology (CSUPERB) SEED Grant for the proposal entitled <i>Metagenomic and Metabolic Study of Bacteria in California Vernal Pools</i> \$14,174 (PIs: Gonzalez-Orta and Kneitel)
2010	University Enterprises, Inc. Grant. California State University-Sacramento \$750.
2009	Goethe Project Funds for proposal entitled <i>Functional and Genetic Diversity Analysis of Bacterial Populations in California Vernal Pools</i> \$2,500.
2009	Soroptomist Grant, submitted on behalf of the 4H-On the Wild Side Program \$250.
2008	Walnut Marketing Board Research Grant for Proposal entitled <i>An ecological and molecular study of the biocontrol agent <u>Agrobacterium rhizogenes</u> K84 and its effectiveness in controlling crown gall of walnut caused by the bacterium <u>Agrobacterium tumefaciens</u>.</i> \$15,000.

GRANT COLLABORATIONS

2018-	Tiny Earth Network. Wisconsin Institute of Discovery. University of Wisconsin. Madison, WI. (Gonzalez-Orta, Tiny Earth Network PI and Trainer).
2015-present	Sustainable Interdisciplinary Research to Inspire Undergraduate Success (SIRIUS) Project. NSF-IUSE Grant. (Gonzalez-Orta, Faculty Collaborator).
2015-2017	Department of Education. Developing Hispanic-Serving Institutions (HSI) Program. Institutional Networks for (Student) Success (Peer) Programs and Instructional Redesign Efforts (INSPIRE) (Gonzalez-Orta, Project INSPIRE Co-Director for the Network for Peer Assisted Student Success)

PUBLICATIONS

- Dalsing B.L., Truchon A.N., **González Orta, E.T.**, Milling A.S., Allen C. **2015.** *Ralstonia solanacearum* uses inorganic nitrogen metabolism for virulence, ATP production, and detoxification in the oxygen-limited host xylem environment. *mBio* 6(2):e02471-14. doi:10.1128/mBio.02471-14.
- Kluepfel, D.A., Zaid, M.B., Maccree, M.M., and **González, E.T.** **2008.** Assessing the genetic diversity of *Agrobacterium tumefaciens* in California walnut growing regions and resistance to the biocontrol agent, *A. rhizogenes* K84. *Walnut Research Reports*. <http://walnutresearch.ucdavis.edu>

- **González, E.T.**, Maccree, M.M., Zaid, M.B., and Kluepfel, D.A. **2007**. Assessing the genetic diversity of *Agrobacterium tumefaciens* in California walnut growing regions and resistance to the biocontrol agent, *A. rhizogenes* K84. *Walnut Research Reports*. <http://walnutresearch.ucdavis.edu>.
- **González, E.T.**, Brown, D.G., Swanson, J.K., and Allen, C. **2007** Using the *Ralstonia solanacearum* Tat Secretome to identify bacterial wilt virulence factors. *Applied and Environmental Microbiology*. 73: 3779-3786.
- Gabriel, D.W., Allen, C., Schell, M., Denny, T.P., Greenberg, J.T., Duan, Y.P., Flores-Cruz, Z., Huang, Q., Clifford, J.M., Presting, G., **González, E.T.**, Reddy, J., Elphinstone, J., Swanson, J., Yao, J., Mulholland, V., Liu, L., Farmerie, W., Patnaikuni, M., Balogh, B., Norman, D., Alvarez, A., Castillo, J.A., Jones, J., Saddler, G., Walunas, T., Zhukov, A., and Mikhailova, N. **2006**. Identification of Open Reading Frames Unique to a Select Agent: *Ralstonia solanacearum* Race 3 Biovar 2. *Molecular Plant-Microbe Interactions*. 19(1):69-79.
- Allen, C., Tans-Kersten, J., and **González, E.T.** **2005**. Genes involved in early bacterial wilt pathogenesis. Bacterial Wilt Disease and the *Ralstonia solanacearum* Species Complex. Allen, C., Prior, P., and Hayward, A.C., eds. The American Phytopathological Society Press. St. Paul, MN.
- **González, E.T.** and Allen C. **2003**. Characterization of a *Ralstonia solanacearum* operon required for polygalacturonate degradation and uptake of galacturonic acid. *Molecular Plant-Microbe Interactions* 16(6):536-544.
- Kim, S., Ayala, I., Steenhuis, J.J., **González, E.T.**, and Barry, B. **1998**. Infrared spectroscopic identification of the C-O stretching vibration associated with tyrosyl Z and D radicals of photosystem II. *Biochimica et Biophysica Acta*. 1364(3):337-60.

ABSTRACTS AND PRESENTATIONS AT REGIONAL, NATIONAL, AND INTERNATIONAL MEETINGS

- Lundmark, J., **González Orta, E.**, On-Art, K., Jarasa, K., and Tashiro, L. **2017** “Embedding undergraduate research in student success programs: empowering students to improve campus programs” **Poster**. *Society for the Advancement of Biology Education Research (SABER) conference*, July 20th-23rd. Minneapolis, MN USA.
- **González Orta, E.T.** and Quinones-Soto, S. **2017**. Science Educational Equity (SEE) Program-A Comprehensive Program for Students with Educational Barriers. **Oral Presentation**. Puerto Rico Project Kaleidoscope Regional Meeting & PR-LSAMP 15th Best Practice Conference on Teaching and Learning. May 26th. San Juan, PR USA.
- **González -Orta, E.T.**, Jordan, T., Parsh, B., and Tashiro L. **2017**. Establishing a University-Wide Peer Program-Network Through Professional Learning Communities. **Oral Presentation**. Association for Hispanic Serving Institutions Educators (AHSIE) Conference. April 9-12. Las Vegas, NV USA
- Bird, M. and **González -Orta, E.T.** **2016**. Teens as Teachers: Tapping into Service Learning to Engage Youth from Diverse Backgrounds. **Educational Session**. American Camp Association National Conference. Feb. 9-12. Atlanta, GA USA.
- **González -Orta, E.T.**, McCarthy Hintz, M., Lundmark, J., Tashiro, L., Sessoms, D., Bruner, J., Trainer, J. **2015**. Development of a New Center for Science and Math Success at Sacramento State. **Poster**. CSU STEM Summit. April 8th. Cal Poly Pomona.
- Lundmark, J., **González -Orta, E.T.**, Tashiro, L., and McCarthy Hintz, M. **2015**. Strategies to close the achievement gap in STEM (Science, Technology, Engineering, and Math) at a large, public institution. HEDs Up Session. **Oral Presentation**. AAC&U Diversity, Learning, and Student Success Conference. March 26-28. San Diego, CA USA.
- Lundmark, J., **González -Orta, E.T.**, McCarthy Hintz, M., White, J., and Tashiro, L. **2014** Synergism between systemic STEM projects and campus equity programs: success for underrepresented

students in STEM. **Poster Presentation.** AAC&U Transforming STEM Higher Education Conference. November 6-8. Atlanta, GA USA.

- Barrena, J.C., **González, E.T.**, De La Cerda, L., and Jefferson, M. **2012.** Programs and Best Practices to Increase Retention and Graduation Rates of Students from Underrepresented Groups in STEM. **Oral Presentation. Invited Speaker.** *American Society for Microbiology Conference of Undergraduate Educators.* San Mateo, CA. USA
- **González, E.T.**, Wechter, W.P., and Kluepfel, D.A. **2008.** Pseudomonas gene expression during growth in the rhizosphere. **Oral Presentation. Invited Speaker** for Centennial Meeting Special Session: Plant-Associated Bacteria in their Natural Habitat. *American Phytopathological Society Annual Meeting.* Minneapolis, MN USA.
- **González, E.T.**, Maccree, M.M., Zaid, M., and Kluepfel, D. A. **2008.** Evaluation of *Agrobacterium tumefaciens* genetic diversity in CA walnut growing regions and resistance to the biocontrol agent, *Agrobacterium rhizogenes* K84. **Poster Presentation.** *American Phytopathological Society Annual Meeting.* Minneapolis, MN USA.
- **González, E.T.**, Maccree, M.M., Zaid, M.B., and Kluepfel, D.A. **2008.** Assessing the genetic diversity of *Agrobacterium tumefaciens* in California walnut growing regions and resistance to the biocontrol agent, *A. rhizogenes* K84. **Oral Presentation.** *Walnut Marketing Board Annual Meeting.* Bodega Bay, CA USA.
- Kluepfel, D.A., Maccree, M.M., Zaid, M., and **González, E.T.** **2007.** Assessing the genetic diversity of *Agrobacterium tumefaciens* in walnut growing regions of California. **Poster Presentation.** *American Phytopathological Society Annual Meeting.* July 29-August 1. San Diego, CA USA.
- **González, E.T.**, McClean, A.E., Sudarshana, P., and Kluepfel, D.A. **2007.** Deep Bark Canker PCR detection of the causative agent *Brenneria rubrifaciens* and methods to identify genes involved in virulence. **Oral Presentation.** *Annual Walnut Marketing Board Meeting.* January 29-31. Bodega Bay, CA USA.
- **González, E.T.**, Brown, D., Swanson, J., and Allen, C. **2004.** Role of Tat secretion in virulence of the plant pathogen *Ralstonia solanacearum*. **Poster Presentation.** *American Society for Microbiology Annual Meeting.* May 23-27. New Orleans, LA USA.
- **González, E. T.**, Brown, D, and Allen C. **2003.** Exploring the role of the Tat secretome in *Ralstonia solanacearum* pathogenesis. **Oral Presentation.** *American Phytopathological Society Annual Meeting.* August 9-13. Charlotte, NC USA.
- **González, E.T.** and Allen, C. **2002.** Exploring the roles of pectolysis during *Ralstonia solanacearum* pathogenesis. **Poster Presentation.** *3rd International Bacterial Wilt Symposium.* Feb. 4-8, 2002. White River, South Africa.
- Allen, C., Tans-Kersten, J., Brown, D., and **González, E.** **2002.** Genes involved in early bacterial wilt pathogenesis. **Abstract.** *Proceedings of the 5th Rencontre Plantes-Bacteries.* January 13-17, 2002. Aussois, France.
- **González, E.T.** and Allen, C. **2001.** Exploring the roles of exopolygalacturonase PehC and galacturonate transporter ExuT in *Ralstonia solanacearum*. **Poster Presentation.** Abstract. *10th International Congress of Molecular Plant Microbe Interactions.* July 2001. Madison, WI USA.

STUDENT POSTERS AND PRESENTATIONS AT REGIONAL, NATIONAL, AND INTERNATIONAL MEETINGS (Student presenters are marked with an *)

- Givens, L.*, and Wilhelm, C.* **2018.** Digging for Antibiotics in the American River. *Tiny Earth Symposium.* June 20-22nd. University of Wisconsin. Madison, WI USA.

- Dover, M.*, and Qavi, F.* **2018**. Antibiotic Activity Spectrum of Cultured Bacteria from American River Soil Samples. *Tiny Earth Symposium*. June 20-22nd. University of Wisconsin. Madison, WI USA.
- Clayton, S.* and Yang, B.* **2018**. Searching for Antibiotics within the Sacramento State Arboretum. *Tiny Earth Symposium*. June 20-22nd. University of Wisconsin. Madison, WI USA.
- Lundmark, J., Shanbrom, C., and **González-Orta, E. 2018** "Inclusive Practice In Peer-Led Programs" (**workshop**; included student presenters Ashlie Lopez*, Rafael Corona*, Benlly Perez*, Aracely Martinez*, Jordan Padilla*, and Josilyn Zamora*). *AHSIE Annual Meeting*, March 25-27th. Chicago, IL USA.
- Carper, D.*, Kneitel, J., and **González-Orta, E.T. 2013**. A comparative study of the Bacterial communities in California vernal pools. **Poster Presentation**. *25th Annual CSU Biotechnology Symposium*. Anaheim Marriott. January 3-5, 2013. Anaheim, CA USA
- Cedeno, M.*, Greer, J.E.*, Yang, C*., and **González-Orta, E.T. 2012** Analysis of the bacterial community of the upper rhizosphere of a Valley Oak tree (*Quercus lobata*). *College of Natural Sciences and Mathematics Undergraduate Research Symposium*. California State University, Sacramento. October 2, 2012. Sacramento, CA USA
- Dhoot, G*., Eyester, T.*, Muradyan, R.* and **González-Orta, E.T. 2012**. Analysis of the bacterial community present in the rhizosphere in the Bunya-Bunya Tree (*Araucarai bidwillii*). *College of Natural Sciences and Mathematics Undergraduate Research Symposium*. California State University, Sacramento. October 2, 2012. Sacramento, CA USA
- Cervantes, A.*, Kaur, A.*, McKinnis, J*., and **González-Orta, E.T. 2012** Analysis of soil microbiota of *Sequoia sempervirens* from the CSUS Arboretum. *College of Natural Sciences and Mathematics Undergraduate Research Symposium*. California State University, Sacramento. Sacramento, CA USA
- Cheng, J.*, Cortes, A.*, Estrada, M.*, Koons, A.*, Lardner, K.*, Nikitin, Y*. Bacterial community analysis of the *Pinus caneriensis* rhizosphere. **2011**. Poster Presentation. *College of Natural Sciences and Mathematics Undergraduate Research Symposium*. California State University, Sacramento. October 4, 2011. Sacramento, CA USA.
- Davis, M.W.* **González, E. T.**, Carper, D., and Kneitel, J.M. **2011**. Bacterial Diversity in Mather Vernal Pools. Poster Presentation. *College of Natural Sciences and Mathematics Undergraduate Research Symposium*. California State University, Sacramento. October 4, 2011. Sacramento, CA USA
- Carper, D*. **2011**. Bacterial Diversity in Mather Field Vernal Pools. **Oral Presentation**. *25th Annual California State University Student Research Competition*. California State University-Sacramento. March 12, 2011. Sacramento, CA USA.
- Carper, D.*, Davis, M. W.*, Kneitel, J.M., and González, E.T.. 2011. Bacterial Diversity in California Vernal Pools. Poster Presentation. *23rd Annual CSU Biotechnology Symposium*. Hyatt Regency Orange County. Orange County, CA USA.
- Paris, S.* , Davis, K*., Kneitel, J.M., and González, E.T. 2011. Bacterial Diversity in Vernal Pools Located at Beale Air Force Base. Poster Presentation. *23rd Annual CSU Biotechnology Symposium*. Hyatt Regency Orange County. Orange County, CA USA.
- Davis, M.W.*, **González, E.T.**, Carper, D*., and Kneitel, J.M. **2010**. Bacterial Diversity in Mather Vernal Pools. **Poster Presentation**. *10th Annual Biomedical Research Conference for Minority Students*. Charlotte, NC USA.

MENTORING/ADVISING EXPERIENCE

2018-	SEE Pre-Health Professional Research Program Mentor
2014-	DEGREES Project Advisor for the College of NSM
2014-2015	PERSIST Project Advisor for the College of NSM

2013-	Faculty Advisor, Chicano/as in Health Education
2013-2014	Faculty Advisor, Future Black Dentists and Doctors.
2011-2012	Faculty Advisor, Sikh Student Association
2010-2014	Health Professions Pipeline Partnership Project (HP ⁴) Faculty Coordinator for the Science Educational Equity Program at California State University-Sacramento.
2010-	Academic Advisor for the Science Education Equity program at California State University-Sacramento.
2010	California State University-Sacramento-Los Rios Science Transfer Project Summer Research Mentor.
2009	Faculty Advisor. Student Association of Laboratory Scientists (SALS) at California State University-Sacramento. Spring Semester.
2004	Howard Hughes Medical Institute Fellow, Graduate student mentor, Symbiosis Summer Undergraduate Research Program, Department of Plant Pathology, University of Wisconsin-Madison.
2003	Graduate Student Mentor, Research Experience for Undergraduates (REU) program, Department of Bacteriology, University of Wisconsin-Madison.
2000	Graduate Student Mentor, Research Experience for Undergraduates (REU) program, Department of Bacteriology, University of Wisconsin-Madison.

COMMITTEE APPOINTMENTS AT SACRAMENTO STATE

2018	Asst. Professor of Biological Sciences (Discipline-Based Education Researcher) Search Committee, Department of Biological Sciences.
2018	Associate Vice President of the Office of Research, Innovation, and Economic Development Search Committee, Division of Academic Affairs.
2017	Dean of College of NSM Search Committee, <u>Chair</u> , Division of Academic Affairs
2017	ASC-II Search Committee, <u>Chair</u> , for the Center for Science and Math Success.
2016	Tenure-track Asst. Professor in Biological Sciences (Bioinformatician) Search Committee, <u>Chair</u> , Department of Biological Sciences.
2015-2016	Tenure-track Asst. Professor in Biological Sciences (Physiologist) Search committee, Department of Biological Sciences
2015	Vice President of Strategic Success Initiatives Search Committee, Student Academic Success and Educational Equity Programs, Division of Student Affairs.
2015	Two-year lecturer in Anatomy Search committee, Department of Biological Sciences
2015-2016	Sacramento State Promise Zone Advisory Committee
2014-2015	Member of the following Department of Biological Sciences Committees: Scholarship, CLS Advisory Committee, Information Technology, and Curriculum
2014	SSP-II Search Committee, <u>Chair</u> , for the Science Educational Equity Program.
2013-2017	Student Retention and Graduation Subcommittee of the Academic Policies Committee of the Faculty Senate (<u>Asst. Chair</u> -2015-2016; <u>Chair</u> -2016-2017)
2013	Member, CSUS Graduation Initiative Theme 3: Defining and Developing the Faculty Role in Student Retention and Graduation Efforts.
2013-2014	Member of the Department of Biological Sciences Scholarship Committee, CLS Advisory Committee, and Information Technology Committee
2013	SSP-III Hiring Committee, <u>Chair</u> , for the Science Educational Equity Program.
2013	Department of Chemistry, Richard Fish Scholarship Selection Committee
2013	College of Natural Sciences and Mathematics Dean's Award Selection Committee
2012-2017	Project PASS Internal Advisory Committee

2012	College of Natural Sciences and Mathematics Dean's Award Selection Committee.
2011	CSUS Graduation Initiative Steering Committee.
2011-2013	<u>Chair</u> , CSUS Graduation Initiative Theme 3: Defining and Developing the Faculty Role in Student Retention and Graduation Efforts.
2011-2013	Member of the Executive Committee of the Department of Biological Sciences.
2011-	College of Natural Sciences and Mathematics Student Academic Success Committee.
2011	College of Natural Sciences and Mathematics Dean's Award Selection Committee, California State University-Sacramento. Committee and Information Technology Committee. Department of Biological Sciences.
2010	IST-II Search Committee for the Department of Biological Sciences
2010	College of Natural Sciences and Mathematics Dean's Award Selection Committee, California State University-Sacramento.
2009-2010	Scholarship Committee, Safety Committee, and Information Technology Committee member. Department of Biological Sciences.

PROFESSIONAL COMMUNITY OUTREACH

2018	Book Reviewer, <i>Microbiology: An Evolving Science</i> by Joan Slonczewski and John Foster
2018	Reviewer, <i>Frontiers in Microbiology</i>
2015	American Society for Microbiology Public Events Task Force
2014	Reviewer for California State University Program for Biotechnology Research Program (CSUPERB) grants.
2011	Reviewer for California State University Program for Biotechnology Research Program (CSUPERB) grants.
2010-	Reviewer for the scientific journal <i>FEMS Microbiology Letters</i> .
2010-	Reviewer for the scientific journal <i>Plant Disease</i> .

SACRAMENTO COMMUNITY OUTREACH

2006-present	Sacramento 4-H On the Wild Side Program. <u>Volunteer Assistant Program Leader (ongoing, 14 years of service to date)</u> and Adult coach overseeing/assisting teen-teachers educate grade-school children in environmental science and awareness in a weekend sleep-away camp setting.
2013	Sacramento County 4-H Futures Task Force
2010-2013	Sacramento County 4-H Leadership Team Member.
2008-2012	4-H Science, Engineering, Technology (4H-SET) committee member for Sacramento County. Biology and education liaison between Sacramento County 4H and California State University-Sacramento.

COMMUNITY OUTREACH PRESENTATIONS/EVENTS

- Outreach Presentation, Pioneer High School, Ms. Monica Craggs' classroom. October 9, 2017. Woodland, CA.
- Feria de Educacion, Sacramento State, 2018 and 2015 on behalf of the Center for Science and Math Success.
- Future Hornet Day, Sacramento State, table representing the Center for Science and Math Success (2016) and the Science Educational Equity Program (2014 and 2016)

- Chico State Department of Biological Sciences Seminar Series. Invited Speaker. A Comparative Study of the Microbial Ecology of Vernal Pools in the Sacramento Valley. September 25, 2015.
- Northern California Forum for Diversity in Graduate Education. Sonoma State University. Panelist. *Life Sciences Panel*. April 18, 2015
- The Pathways Career Symposium. University of California-Davis. Invited Speaker. *The Academic Job Talk-a Few Pointers*. January 28, 2012.
- Sacramento State Friends of the Library and Sacramento State Retirees Association. Invited Speaker. *Microbes Everywhere: Hitchhikers, Friends and Foes*. California State University, Sacramento. December 7, 2011.
- Expanding Your Horizons. California State University-Sacramento. Session *Take a Walk On the Wild Side* Session co-presenter with Marianne Bird and 4-H volunteers. October 9, 2010.
- California Regional Environmental Education Community (CREEC) Conference: Connecting Youth to the Outdoors. Presenter along with Marianne Bird, and 4-H youth volunteers. February 3, 2010.
- The Pathways Career Symposium. University of California-Davis. Invited Speaker. *The Academic Job Talk-a Few Pointers*. January 30, 2010.
- Expanding Your Horizons. California State University-Sacramento. Session co-presenter with Drs. Christine Kirvan and Chris Sullivan. Fall 2008.
- REACH Youth Development Conference: "Our Voices Creating a New World" Session Title: *On the Wild Side: A Story of Successful Youth Adult Partnership*. Presenter. Sacramento, CA USA. July 9, 2008.
- University of California-Davis Picnic Day. USDA/ARS booth volunteer distributing information about the USDA and Agricultural Research Service and its scientific programs on the University of California-Davis campus. April 2006 and April 2007.
- *Lab Tour: An introduction to PCR*. Part of a University of California-Davis Cooperative Extension Farm Advisors Meeting. Department of Plant Pathology. University of California-Davis. Winter 2006.
- Microbial Ecology Journal Club. Organizer/Facilitator. USDA/ARS Crops Pathology and Genetics Research Unit. University of California-Davis. Fall 2005-August 2008.

CONTINUING EDUCATION & TRAINING

- Software and Data Carpentry Instructor Training, 2018, Data Intensive Biology Summer Institute. University of California Davis. June 25-26th. Davis, CA.
- Small World Initiative Partner Instructor Training. January 8-12th. Wisconsin Institute for Discovery. University of Wisconsin. Madison, WI.
- The California Wellness Foundation Increasing Diversity in the Health Professions Retreat. November 4-6, 2015. Tahoe City, CA.
- Student Success Analytics Professional Learning Community. Center for Teaching and Learning. Sacramento State. Sacramento State. 2015-2016 Academic Year.
- STEM Student Success Faculty Learning Community. Center for Teaching and Learning. Sacramento State. Spring and Fall Semesters 2015.
- 2015 Empowering Women of Color Conference. Sacramento State. April 3, 2015.
- Explorations in Data Analyses for Metagenomic Advances in Microbial Ecology (EDAMAME). Kellogg Biological Field Station. Michigan State University. August 13-20, 2014.
- The California Wellness Foundation Conference on Increasing Diversity in the Health Professions. Attendee. Hilton Los Angeles/Universal City. June 24-25, 2013.
- CSU-LSAMP Annual Meeting. Attendee. Sacramento, CA. February 8-9, 2013.

- 12th Annual Biomedical Research Conference for Minority Students (ABRCMS). Attendee and NIH Bridges PI. San Jose, CA. November 7-10, 2012.
- CSU-LSAMP Annual Meeting. Attendee. Long Beach, CA. February 10-11, 2012.
- CSU Chancellor's Office Graduation Initiative-Engaged Learning Workshops. Sacramento State Graduation Initiative Steering Committee Representative. December 2, 2011.
- 11th Annual Biomedical Research Conference for Minority Students (ABRCMS). Attendee and NIH Bridges PI. St. Louis, MO. Nov. 10th-13th, 2011.
- California Health Professions Consortium Statewide Conference. "Sustaining Pipeline Programs in Difficult Economic Times." University of California-Davis Medical Center. October 13th and 14th, 2011.
- 9th National AMSA/ARC Pre-Medical and Pre-Public Health Conference. University of California-Davis. Oct. 8th-9th, 2011.
- The California Wellness Foundation Conference on Increasing Diversity in the Health Professions. Attendee. Los Angeles, CA. June 1st-2nd, 2011.
- CSU-LSAMP Annual Meeting. Attendee. Fresno, CA. February 4th-5th, 2011.
- ASM/NIGMS Learning Interventions Institute. Participant. Washington, D.C. January 10th-13th, 2011.
- Annual Biomedical Research Conference for Minority Students (ABRCMS). Judge. Charlotte, N. Carolina. November 10th-13th, 2010.
- National Science Foundation Joint Annual Meeting (NSF JAM-10). Invitee of the BIO directorate. Washington, DC USA. June 6th-9th, 2010.
- American Society for Microbiology-Conference for Undergraduate Educators (ASMCUE). Attendee. San Diego, CA USA. May 20th-23rd, 2010.
- Region 3 STEM Service Learning Workshop. California State University-Sacramento. Participant and liaison for service learning opportunities with CSUS students. August 5th-7th, 2009.
- Teaching Institute. Center for Teaching and Learning, California State University-Sacramento. Participant. May 26th-29th, 2009.
- 4-H SET Training. Participant. University of California-Davis. Daylong training session on how to integrate inquiry-based learning and teaching into current curricula. This training was delivered as a hands-on approach to teaching science to grade school children in non-traditional settings (i.e. camp, afterschool programs, clubs, etc.). June 6th-9th, 2010.

PROFESSIONAL MEMBERSHIPS

- American Society for Microbiology
- American Association for the Advancement of Science
- California Health Professions Consortium
- SACNAS
- National Center for Faculty Development and Diversity