

Abbreviated CV for José Herrera

OFFICE:

Mercy College
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PERSONAL:

Born - Chicago, IL

EDUCATION:

1996 - Ph.D., Kansas State University
1991 - M.S., Northern Illinois University
1988 - B.S., Northern Illinois University, Magna Cum Laude

EXPERIENCE:

2017-present. Provost & Vice President for Academic Affairs, Mercy College, Dobbs Ferry, NY. As the chief academic officer of the College, I am responsible for all aspects of academic planning, organizing a \$50M budget, and assessing the educational effectiveness of Mercy's ~225 faculty and ~10,000 students who attend three campuses in the New York metropolitan area: Dobbs Ferry, Bronx, and Mid-town Manhattan.

2014-2016. Associate Vice President for Academic Affairs, Western New Mexico University (WNMU), Silver City, NM. Under the auspices of the VPAA's office, developed the WNMU Grants Office where I managed and oversaw all WNMU grants including shepherding PIs through the application process for federal and foundation grants, providing grantsmanship workshops and serving as WNMU's Authorized Organizational Representative (AOR). As with the Dean's position, the grants office was built from the ground up and during its first year submitted over \$11M in external funds (nearly quadrupling of the previous year's effort). Oversaw the development of a new General Education Program at WNMU that included reducing the credit hour requirements for Associate and Baccalaureate degrees (from 128 and 64 to 120 and 60, respectively).

2013-2016. Professor and Founding Dean of The College of Arts and Sciences (CASa), WNMU, Silver City, NM. In an open-enrollment and Hispanic Serving Institution (HSI), provided oversight, strategic planning and management to the College. The College was composed of five departments and, at the time, consisted of nearly 70 faculty and numerous baccalaureate and master's level programs attended by some 3,500 students spread over several buildings throughout a comprehensive four-year institution with four satellite learning centers.

2011-2013. Program Director, National Science Foundation, Division of Undergraduate Education (NSF- DUE) rotator, Arlington, VA where I oversaw various programs within the Division of Undergraduate Education, including the STEP (co-lead), TUES (now the NSF-IUSE program), RCN-UBE, ATE and Noyce programs. While there, I was responsible for negotiations, allocation of millions of dollars in grant funds and oversight of federal educational projects throughout the country at a full spectrum of institutions and programs.

2009-2011. Chair, Department of Biology, Truman State University. Responsible for oversight of a 27-

person department including strategic planning, personnel reviews, coordinating hiring process for faculty and staff, course scheduling, coordinating departmental meetings, oversight of physical spaces (laboratories, greenhouse etc.), coordinating visit days and organizing departmental budgets.

1996-2009. Assistant, Associate (2002) and Full Professor (2009). Department of Biology, Truman State University. Taught microbiology, mycology, general biology for majors, microbial ecology, and freshmen and senior seminars.

2006. Sabbatical visiting faculty. Department of Biology, University of New Mexico, Don Natvig, host. Coordinated with Dr. Natvig and several of his graduate students (including Andrea Porrás-Alfaro) to organize several endophyte collection trips and manuscripts.

2005. Sabbatical visiting faculty. University of Alberta Mold Herbarium, Lynne Sigler, host.

1995-1996. Research Assistant. KSU division of biology. Planned, designed, and executed research at two long-term ecological research sites (Sevilleta Wildlife Refuge and Konza Research Natural Prairie).

1991-1996. Teaching Assistant. KSU Division of Biology. Prepared and taught laboratory portion of the following courses: microbiology; organismic biology; botany; and, principles of biology.

1988. High School Biology Teacher. DeKalb H.S. science department. Prepared, and taught regular and advanced science courses to high school students. State of IL certification #1278391.

HONORS, GRANTS & AWARDS:

- 2020. Effective Leadership Golden Age Award given to individuals who have made significant contributions to the Latino/Hispanic Community. The award is given to individuals who provide effective leadership within their communities. Latino Center on Aging (576 Fifth Avenue, Suite 903, New York, NY 10036. [Award delayed because of COVID and will be awarded in 2021].
- 2019. Invited participant to a gathering of thought leaders to discuss *Transforming the Evaluation of Teaching*. National Academies in Washington, D.C.: <https://www.nap.edu/download/25685>
- 2019. PI on NSF proposal to fund Gordon Research Conference, Undergraduate Biology Education Research: Fostering Needed Changes for Undergraduate Biology Education. NSF-DUE: 1922648. June 23-28. Bates College, Lewiston, ME PI (\$49,700).
- 2019. Invited collaborator to the NSF-Funded Building Leadership Capacity for Change in STEM workshop. Denver, CO. (workshop led by Susan Elrod and Andriana Kezar).
- 2018. Invited and participated as mentor to the 2018 AAC&U's PKAL STEM Leadership Institute, Adamstown, ME.
- 2018. PI on HHMI *Inclusive Excellence* project to establish an Adjunct Academy and provide instructors with inclusiveness training and data analytics competence. HHMI GT11058. (\$1,000,000)
- 2018. PI on Complete College America seed funding to develop 15-to-finish strategies within Mercy College. (\$1,500)
- 2017. Nominated and served on NSF's Education and Human Resource Advisory subcommittee on Hispanic Serving Institutions (Committee chaired by Dr. Francisco Rodriguez, Chancellor of Los Angeles Community College District).
- 2017. co-PI on NSF proposal to fund Gordon Research Conference, Undergraduate Biology Education Research: Improving diversity, equity, and learning in Biology education. July 9-14. Stonehill College, Easton, MA (\$49,900).
- 2016. PI on NSF-DEB-1619935. Characterizing the Dark Septate Endophyte fungal communities colonizing the roots of high- altitude populations of *Bouteloua gracilis*. REU Supplemental funding for undergraduates (\$23,562).
- 2015-2017. Elected Vice-Chair and Chair (2017-2019) of Gordon Conference on Undergraduate Biology Education Research. A national conference on Undergraduate Biology Education. Easton, MA, 2017, chair during the 2019 meeting (Lewistown, ME).
- 2015. PI on NSF-DEB-1457248. Collaborative Research: Parsing the effects of host specificity and geography on plant-fungal symbioses under climate change. (\$233,237).
- 2015. co-PI on NSF-ACI-1541428. CC*DNI Campus Design: Western New Mexico University's Small Campus Cyberinfrastructure Grant. (\$349,864).
- 2015. PI on NSF-DUE-1540554. WNMU Capacity Building grant to strengthen STEM teacher preparation. (\$74,990)
- 2014. One of 20 invitees to the American Institute of Biological Sciences (AIBS) Faculty Leadership Development Synthesis Meeting. Howard Hughes Medical Institute (HHMI), Chevy Chase, MD.
- 2014. PI on project to help Determine the Drivers of STEM Educational Success in New Mexico: Creation of the First

- Long Term Educational Research (LTedR) Site. NM EPSCoR Diversity and Innovation award (\$6,210).
2012. Recipient of Truman's Research Mentor of the Year award (University-wide distinction; \$1000).
2011. Recipient of Truman's Summer Research Fellowship (\$4000)
2011. Truscholars research proposal co-written with undergraduate, Deepak Bokati (\$5000)
2011. Sigma Xi Grant-in-Aid Research program, co-written with undergraduate, Ravin Poudel (\$1000)
2010. Truscholars research proposal co-written with undergraduate, Ravin Poudel (\$5000)
2009. NSF-MRI: Co-PI, Acquisition of a confocal microscope to advance undergraduate research at Truman State University (\$192,890).
- 2008, 2009 and 2012. Nominated for as Truman's Outstanding Researcher Mentor of the year award.
2008. College of Arts and Sciences Fellowship. Anatomical localization of dark septate endophytes (DSE) in blue grama (*Bouteloua gracilis*). (\$1,500).
2008. NSF-ROA, DEB-0620482. Fungal endophyte load within *B. gracilis* roots exposed to variable precipitation events; Co- PI Scott Collins, University of New Mexico (\$25,000).
2008. Finalist photo in the 2008, Nikon Small World Competition: www.nikonsmallworld.com, and used in Discovery channel's INVISIBLE WORLDS television program.
2007. NSF-DEB-0715746; PI, Characterizing the role of dark septate endophytes within semi-arid grasslands (\$164,166).
2007. Recipient of William O'Donnell Lee Advisor Award (University-wide distinction).
2007. Nominated for William H. Weston award for excellence in teaching (Mycological Society of America).
2006. NSF-ROA, DEB-0608601, Characterization of fungal symbionts of arid grasses; Co-PI Robert L. Sinsabaugh, University of New Mexico (\$25,000).
- 2005-2012. Sporocidal and sporostatic properties of Sodium polyborate (Boron 10) on common indoor fungal communities— grant awarded by private-sector consortium of companies led by InCide technologies, Inc. (cumulative total, \$25,500).
2004. Truman's faculty research/scholarship award (\$4,000).
2004. American Medical Student Association's golden apple award for teacher of the year.
2004. Microfungal assessment of boric acid-treated cellulose insulation—grant awarded by a consortium of cellulose insulation producing companies. (\$6,800).
- 2000 & 2004. Semifinalist for Truman State University's teacher of the year award.
- 2001 & 2002. Ability of lactic acid bacteria to bind Aflatoxin B1 under silage conditions—contract grant awarded by Pioneer, Inc. (\$14,000).
2001. Nominated for Truman's William O'Donnell Lee advisor of the year award.
2000. PI on NSF-REU grant, A blending of worlds: Biodiversity research in the Dominican Republic. Unfunded, but garnered a "fund if funds available" status.
- 1998-2000. Truman's faculty research/scholarship award (\$5000/year).
- 1996 & 1997. Truman State University's faculty summer research award (\$3000).
- 1995 & 1996. Mycological Society of America Travel Award (\$150).
- 1995 & 1996. Kansas State University Division of Biology Travel Award (\$450).
1992. National Hispanic Scholar (\$1,000).
1992. KSU Graduate Fellowship (\$10,500).
1991. George Terwilliger Award (departmental graduate student of the year; \$1,500).
- 1989-1991. Patricia Roberts Harris Fellowship (NIU; \$10,000/year).
1989. National Science Foundation grant (\$1,100).
- 1985-1988. Illinois State Board of Education Scholarship (\$1,280/year).

SCHOLARSHIP:

Peer-reviewed Research Articles (* - denotes undergraduate or graduate student):

- Herrera, J., Haskew-Layton, R.E., Narayanan, M., Porrás-Alfaro, A., Jumpponen, A., Chung, A.Y., Rudgers, J.A., 2020. Improving instructional "fitness" requires change. *BioScience*, submitted.
- Lagueux*, D., Jumpponen, A., Porrás-Alfaro, A., Herrera, J., Chung, Y. A., Baur, L. E., ...Rudgers, J. A. 2020. Experimental drought alters the fungal rhizobiomes of grasses across North American grasslands. *Journal of Ecology* accepted pending revision.
- Dolan, E.L., Borrero, M., Callis-Duehl, K., Chen, M.M., de lima, J., Ero-Tolliver, I., Gerhart, L.M., Goodwin, E.C., Hamilton, L.R., Henry, M.A., Herrera, J., Huot, B., Kiser, S., Ko, M., Kravec, M., Lee, M., Limeri, L.B., Peffer, M.E., Pires, D., Ramirez Lugo, J.S., Sharp, S.M., Suarez, N.A. (in press) Undergraduate Biology Education Research Gordon Research Conference: A meeting report. *CBE – Life Sciences Education*.
- Fox*, S., Rudgers, J.A., Porrás-Alfaro, A., Herrera, J., Reazin, C., Kent*, D.R., Souza*, L., Chung*, A., and A. Jumpponen. 2019. Biogeographic patterns of root-associated fungi in foundation grasses of the North American Great Plains. In Review--*New Phytologist*.

- Hutchinson*, M.I., Powell, A.J., Herrera, J. and D.O. Natvig. 2019. New perspectives on the distribution and roles of thermophilic fungi. In *Fungi in Extreme Environments: Ecological Role and Biotechnological Significance*, pp. 59-80. Springer, Cham.
- Herrera, J. 2018. Continue Our Standard Biology Teaching Practices? *Bologna. BioScience*, 68 (8):543, DOI: 10.1093/biosci/biy089.
- Jumpponen, A, Herrera, J., Porras-Alfaro, A. and J. Rudgers. 2017. Biogeography of root-associated endophytes. Chapter 10 in, L. Todoroso and M. Smith (eds.). *Fungal endophytes around the world*.
- *Bokati, D*, Herrera, J. and *R. Poudel. 2016. Root-associated fungal communities colonizing teosinte (*Z. mays*) differ from maize, its domesticated conspecific. *Journal of Mycology*.
- Herrera, J. 2016. Spatial and temporal variation among root-associated fungal communities inhabiting grass roots. *The New Mexico Botanist*, Special Issue 5:52.
- Brown, G.K, Herrera, J., Bernhardt, P and R. Edens-Meier. 2015. Potential Fungal Pathogens of Mead's Milkweed (*Asclepias meadii* Torr.: Apocynaceae). *The Natural Areas Journal* 35:599-605.
- Herrera, J., Jones-Davis, D., Gates, A., Smith Jaggars, S., and M. Suiter. 2014. Online learning: An opportunity for Minority Serving Institutions? *Society for Chicanos and Native Americans in Science News*. 16 (2):1-7.
- Feser, J. Herrera, J., and H.L. Vasaly. 2013. On the edge of mathematics and biology integration: improving quantitative skills in undergraduate education. *CBE-Life Sciences Education* 12:124-128.
- Herrera, J., *Poudel, R., and D. *Bokati. 2013. Assessment of root-associated fungal communities colonizing two species of tropical grasses reveals incongruence to fungal communities of North American native grasses. *Fungal Ecology*, 6:65- 69.
- Vasaly, H.L, Herrera, J., Sullivan, C.H., and K.J. Denniston. 2013. News from the funding front: upcoming opportunities, proposals welcomed. *CBE Life Science Education*, 12:1-4.
- Woodin, T., Feser, J. and J. Herrera. 2012. The Vision is set, now help chronicle the Change. *CBE Life Science Education*, 11:347-350.
- Herrera, J., *Poudel, R., *Nebel, K.A., and S.L. Collins. 2011. Monsoonal precipitation events increase the abundance of some dominant groups of root-associated fungal endophytes in semi-arid grasslands. *Ecosphere* 2. DOI:10.1890/ES11-00001.1.
- Herrera, J., *Poudel, R., and H.H. *Khidir. 2011. Molecular characterization of coprophilous fungal communities reveals sequences related to root-associated fungal endophytes. *Microbial Ecology*, 61:239-244.
- Porras-Alfaro, A., Herrera, J., Natvig, D.O., *Lipinski, K., and R.L. Sinsabaugh. 2011. Diversity and distribution of soil fungal communities in a semiarid grassland. *Mycologia*, 103:10-21.
- Herrera, J., *Khidir, H.H., *Eudy, D.M., *Porras-Alfaro, A., Natvig, D.O., and R.L. Sinsabaugh. 2010. Shifting fungal endophyte communities colonizing *Bouteloua gracilis*: effect of host tissue and geographical distribution. *Mycologia*, 102:1012- 1026.
- *Khidir, H.H., *Eudy, D.M., *Porras-Alfaro, A., Herrera, J., Natvig, D.O., and R.L. Sinsabaugh. 2010. A general suite of fungal endophytes dominate the roots of two dominant grasses in a semiarid grassland. *Journal of Arid Environments*, 74:35- 42.
- Herrera, J. 2008. Sodium polyborate-based additives on recycled cellulose insulation kill or prevent germination of common indoor fungi. *Proceedings from the National Building Enclosure, Science and Technology (a peer reviewed article based on meeting talks)*, Minneapolis, MN.
- *Porras-Alfaro, A., Herrera, J., Sinsabaugh, R.L., *Odenbach, K.J., Lowery, T. and D.O. Natvig. 2008. A novel root fungal consortium associated with a dominant desert grass. *Applied and Environmental Microbiology*, 74:2805-2813.
- Herrera, J., *Omodon, M. and C.L. Dillavou. 2007. The sporocidal and sporostatic effect of Boron 10 (sodium polyborate) and boron-treated cellulose insulation on common indoor fungal species. *Applied Mycology*, 19(2) 35-49.

- *Porras-Alfaro, A., Herrera, J., Natvig, D.O., and R.L. Sinsabaugh. 2007. Long-term nitrogen fertilization affects dominant mycorrhizal fungi in a semiarid grassland. *Plant and Soil*, 296:65-75.
- Herrera, J. 2005. Assessment of fungal growth on sodium polyborate-treated cellulose insulation. *Journal of Occupational and Environmental Hygiene*, 2:626-632.
- Herrera, J., *Wilke, A. L., and K. L. *Ensz. 2001. Stacking of seeds changes spoilage dynamics of food caches of the banner-tailed kangaroo rat (*Dipodomys spectabilis*). *Journal of Mammalogy*, 82:558-566.
- *Hayes, S. A. and J. Herrera. 2001. The effects of storage depth and relative humidity on viability and germinability of *Sporobolus cryptandrus* seeds. *Proceedings from the National Conference of Undergraduate Research*, 7:1-8.
- *Walters, L.L. and J. Herrera. 2000. Determination of physiological adaptation against aflatoxin B1 in banner-tailed kangaroo rats (*Dipodomys spectabilis*). *Proceedings from the National Conference of Undergraduate Research*, 6:1-8.
- *Henderson, H. and J. Herrera. 2000. Assessment of protein concentration of white-throated woodrats (*Neotoma albigula*) versus laboratory rats (*Rattus norvegicus*). *The McNair Scholarly Review of Truman State University*, 6:47-54.
- Herrera, J., Kramer, C. L., and O. J. Reichman. 1999. Spatial and temporal patterns of fungal communities that inhabit rodent food stores. *Microbial Ecology*, 38:79-91.
- *Teachman, A.M. and J. Herrera. 1998. Effects of litter on post-burn grassland productivity. *Proceedings from the National Conference of Undergraduate Research*, 4:1226-1230.
- Herrera, J., Kramer C. L., and O. J. Reichman. 1997. Patterns of fungal communities inhabiting rodent food stores: effect of substrate and infection time. *Mycologia*, 89:846-857.
- Herrera, J. and M. W. McDonald. 1997. Consumption of fungally-infected food by eastern woodrats. *American Midland Naturalist*, 137:220-227.
- Nicolaus, L.K., Herrera, J., Nicolaus, J.C., and C.R. Dimmick. 1989. Carbachol as a conditioned taste aversion agent to control avian depredation. *Agriculture, Ecosystems and the Environment*, 26:13-21.
- Nicolaus, L.K., Herrera, J., Nicolaus, J.C., and C.R. Gustavson. 1989. Ethinyl estradiol and generalized aversions to eggs among free-ranging predators. *Applied Animal Behavior Science*, 24:313-324.

Other reviews and articles

- Herrera, J. 2019. In memoriam: Charles L. "Bud" Kramer. *Inoculum: newsletter of the Mycological Society of America*. September issue.
- Herrera, J. 2002. Review of principles and practice of infection diseases (5th ed), a comprehensive CD published by Harcourt Health Sciences Co. *ASM News*, 68:62-63.
- Herrera, J. 2001. Review of Cornell Center for Fungal Biology web site. *ASM News*, 67:377.

Workshops, invited seminars and presentations of professional activity:

Workshops:

2020. Invited external reviewer to evaluate the accomplishments, function trajectory and strategic plan for Cornell University's Office of Undergraduate Biology (with Susan Singer and Dennis Minchella). [delayed in early 2020 because of COVID]
2019. Co-led Institutional Level change topical interest group at the HHMI Inclusive Excellence PI meeting, Chevy Chase, MD.
2019. Facilitator at a grantsmanship workshop for minority-serving Community College participants from Western States in their efforts to prepare them to submit an NSF S-STEM grant. Reno, NV
2018. Organized and oversaw Symposium on Private Institutions Serving Economically Disadvantaged

- Students (October 5th, 2018), Mercy College. Dobbs Ferry, NY.
<https://www.mercy.edu/academics/symposium>, where a total of 10 private institutions in the New York region participated in conversations about strategies to help low-income students.
2017. Subcommittee of the Advisory Committee of the Directorate for Education and Human Resources (EHR), National Science Foundation, Arlington, VA.
2017. AAAS invitee to Unpacking a Movement: Lessons Learned from Vision and Change. Boston, MA 2016. Grantsmanship basics for Science and Math. University of Maine, Orono, ME.
- 2013 & 2015. Led grantsmanship faculty development workshop for faculty and staff at WNMU.
2013. A forum on massive open online Courses (MOOCs): An opportunity for minority serving institutions? Lead organizer for this symposium presented during the 2013, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) meeting, San Antonio, TX.
2013. Co-organizer of NSF's Science, Technology, Engineering, Talent Expansion Program (STEP), Pls meeting. Strategies to effectively disseminate educational projects. Washington, D.C.
2013. AAAS, Proposal Writing Workshop for the Robert Noyce Teacher Scholarship Program. Funding overview and tips for submitting a Noyce proposal. Washington, D.C.
2013. Introductory Biology Project Workshop (led by Gordon Uno), Phoenix, AZ.
2012. National Association of Biology Teachers, Role of Vision and Change to encourage Teachers to evidence-based reform. Dallas, TX.
2012. Botanical Society of America, Amplifying the ripples: effective dissemination strategies for your science education project. Columbus, OH.
2012. University of Florida, grantsmanship workshop, Gainesville, FL.
2012. Council of Undergraduate Research (CUR) TUES grantsmanship workshop, Washington, D.C.
- 2011 & 2012. Quality Education for Minorities (QEM) network. Workshop to encourage minority serving institutions to submit proposals to the National Science Foundation (Albuquerque, 2011; Baltimore, MD, 2012).
2011. STEP Principal Investigator workshop, Eugene, OR.
2011. NCAT participant in redesign workshop for on-line courses in Missouri. 2003. Flappan Consulting, Inc., Lenexa, KS- microfungus taxonomy.
2001. IBT Reference laboratories, Lenexa, KS—identification of common airspora.
1999. Digital imaging for faculty, Truman State University, Kirksville, MO—instructed faculty how to set up and use, web pages, RGB cameras, and image analysis software.

Invited talks and seminars (older titles available upon request):

2018. Fox, S.; Rudgers, J.A.; Porrás-Alfaro, A.; Herrera, J.; Chung, A.; Kent, D.R.; Reazin, C.; Jumpponen, A. 2018. Different fire severities result in distinct soil fungal community trajectories. 11th International Mycological Congress. San Juan, Puerto Rico, July 15-20. Invited Symposium.
2017. AAAS invitee to Unpacking a Movement: Lessons Learned from Vision and Change. Boston, MA
2016. Keynote presentation on undergraduate participation in Natural Resource disciplines. Declined because of conflict with another meeting. North Carolina State University. Day of Diversity Celebration.
2016. What are the next generation issues and questions that should be addressed through the NSF S-STEM program? AAC&U Building Knowledge exchange meeting, Chicago, IL.
2016. Minding the structural and psychological variables important at minority-serving institutions. Keynote address at Southeast Region PULSE (SERP) conference, Wofford College, Spartanburg, SC.
2016. National Science Foundation grant programs and examples of funded projects. El Paso Community College, El Paso, TX.
2016. Summiting the academic mountain: the challenges of first-generation college students. University of Maine, Orono, ME.
2015. The future of Chicanos in Southwestern New Mexico and other important remarks. WNMU alumni Chicano Conference. Silver City, NM.
2015. Connecting the math to the biology we practice. Keynote presentation at faculty development workshop at the University of Puerto Rico, Humacao, PR.
2015. Two-and-a-half years behind the starting line: the development of underprepared and part-time students in STEM. Gordon Research Conference on Undergraduate Biology Education Research, Bates College, ME.

2015. Developing an undergraduate research culture at an open enrollment, rural HSI. California Hispanic Serving Institutions Research Collaboration meeting, Santa Barbara, CA.
2015. Mary Wortley Montagu: rarely cited heroine of scientific observation and deduction. A symposium organized by Writing Across the Curriculum Honoring Women's History Month. Silver City, NM.
2014. Plenary speaker at the WNMU's Research Symposium, Silver City, NM 2014. 5th Natural History of the Gila Symposium. February 27-28th, Silver City, NM
2013. Botanical Society of America. Talking about leaving...botany and related disciplines, an NSF perspective. New Orleans, LA.
2013. Hispanic Serving Institution Research Collaboration Conference. Funding perspective for California HSIs. Organized by various California Hispanic Serving Institutions, Anaheim, CA.
2012. STEM Talent Expansion Program. Broadening the effect of your educational projects (national webinar using Adobe connect).
2011. Hispanic Association of Colleges and Universities (HACU), San Antonio, TX.
2011. LTER Fungal/Microbial Genomics Group Meeting, Sevilleta Long-Term Ecological Research Station.
2011. Keynote address to Upward Bound High Schools Students, Kirksville, MO
2010. Western Illinois University, Macomb, IL.
2005. Healthy Indoor Air Conference. Children's Mercy Hospital, Kansas City, KS.
2005. Mold in recycled cellulose insulation training seminar. Joplin, MO.
2002. American University, Washington, D.C.
2001. Truman State University, Kirksville, MO.
2001. Kirksville College of Osteopathic Medicine's cultural awareness program.
2000. Creighton University, Omaha, NE
2000. Missouri Department of Natural Resources, Kirksville, MO.
1999. University of Richmond, Richmond, VA
- 1997 & 1999. Kirksville College of Osteopathic Medicine, Kirksville, MO.
1996. Loyola University, Chicago, IL.
1996. University of Wisconsin, Whitewater, Whitewater, WI.

Oral presentations (titles & abstracts of older presentations available upon request):

2020. **María-José Romero-Jiménez, Ari Jumpponen, Jennifer Rudgers, Jose Herrera, Andrea Porrás-Alfaro. Biogeography of Root-Associated Agaricales in South-Central United States. Abstract submitted to the American Society of Microbiology meetings, Chicago, IL.
2018. Fox, S.; Rudgers, J.A.; Porrás-Alfaro, A.; Herrera, J.; Chung, A.; Kent, D.R.; Reazin, C.; Jumpponen, A. 2018. Different fire severities result in distinct soil fungal community trajectories. 11th International Mycological Congress. San Juan, Puerto Rico, July 15-20. Invited symposium presentation and a published abstract.
2018. Fungal rhizobiomes of foundation grasses shift across the North American Great Plains. 11th International Mycological Association. San Juan, Puerto Rico. With Samantha Fox (Kansas State University).
2018. Romero-Jimenez, M.; Jumpponen, A.; Rudgers, J.A.; Herrera, J.; Porrás-Alfaro, A. Description of Darksidea, a novel genus within Pleosporales, and evaluation of their effects on grasses. 11th International Mycological Congress. San Juan, Puerto Rico, July 15-20. Invited symposium presentation and a published abstract.
2018. Rudgers, J. A., A. Porrás-Alfaro, K. Beaven, K. **Anderson, S. *Fox, J. Herrera, Y. A. *Chung, C. **Reazin, D. R. **Kent, A. Jumpponen. Capacity of root endophytes to buffer dominant grass species against heat and drought. Ecological Society of America Annual Meeting (Aug 5-10, 2018; New Orleans, LA).
2017. Romero-Jimenez, M.-J., Jumpponen, A., Rudgers, J., Herrera, J., Porrás-Alfaro, A. Distribution, abundance, and function of Darksidea spp., and endophytic fungus associated with grasses. Louis Stokes Midwest Center of Excellence Annual Meeting. Indianapolis, IN.
2016. Student success must consider the whole student. Mercy College.
2013. A forum on massive open online Courses (MOOCs): An opportunity for minority serving institutions?

- Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) meeting, San Antonio, TX.
2011. The imprint of Ascomycota on the biogeochemistry of arid ecosystems. Ecological Society of America meetings invited symposia (co-authored with Robert Sinsabaugh).
2011. Threshold models for how pulse dynamics affect microbial responses to climate change in arid ecosystems. Ecological Society of America meetings invited symposia (co-authored with Scott Collins).
- 1995-1997, 2000, 2002, 2006-2012. Mycological Society of America national meetings.
- 2008 & 2009. Ecological Society of America (co-authored with A. Porras).
2008. Building Enclosure Science & Technology, Minneapolis, MN.
1996. Animal Behavior Society meeting, Flagstaff, AZ
1995. American Society of Mammalogists, Burlington, VT.
1995. Ecological Society of America meetings, Snowbird, UT.
1990. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Costa Mesa, CA.

Poster presentations since 2000 (titles & abstracts available upon request):

- 2001, 2005, 2007 & 2010, 2013. Mycological Society of America
2007. Long-term Ecological Research meeting, Sevilleta LTER.
2000. Long-Term Ecological Research meeting, Sevilleta, NM.

SERVICE:

- 2020 -- present. Invited member of the National Association of College and University Business Officers (NACUBO) Analytics Advisory Group. The group will provide NACUBO leadership with advice concerning the strategic initiative of integrating analytics into higher education environments.
- 2019 -- present. Advisory Council Member for *Education Update*, 17-year-old, award-winning newspaper with 100,000 readers per issue and 4 million-page views per year on the web. Our readership includes parents, teachers, students, guidance counselors in NY and NJ, principals, superintendents, librarians, college presidents, college deans, foundation heads, politicians, business leaders and medical school deans.
2018. Invited member of the NSF Committee of Visitors for the Division of Undergraduate Education. Served an auditing and advising functions for all the multiple programs managed by the Division of Undergraduate Education.
2016. Volunteer assistant soccer coach for 6-7 year-olds. American Youth Soccer Organization (AYSO) Region 309; Silver City, NM.
- 2016 – present. Handling Editor. *BioScience* (American Institute of Biological Sciences, AIBS) and published by Oxford University Press. Handle educationally related manuscripts and distribute to appropriate reviewers and oversee the editorial and publication process.
- 2015- 2018. Advisory Board of *BioQuest*, a 30-year old consortium of scientists, educators interested in supporting biology education that reflects realistic scientific practices.
- 2015 - 2017. Governing Council member of Aldo Leopold Charter School, Silver City's only public charter school focused on sustainable and experiential learning in grades 6-12.
- 2015 – 2017. External Advisory Board member to the University of California – Santa Barbara's ADVANCE NSF project: Advance Plan IHE: Center for Research, Excellence and Diversity in Team Science (CREDITS). NSF-EHR 1464054.
- 2011-2018. Editor then in 2013, Senior Editor, Life Sciences Education, the leading science education peer-reviewed journal in the U.S. Allocate editors and oversee the editorial process related to educational research articles in the biological sciences.
- 2006 - present. National Science Foundation reviewer for the Division of Undergraduate Education and Division of Environmental Biology programs (multiple panels for various programs including CCLI, DEB, DBI-REU, IUUSE, STEP, Noyce, ATE, S-STEM & TUES). Washington, D.C.

- 1996 - present. Reviewed multiple times for multiple journals including, *Mycologia*, *Plant Research*, *Microbial Ecology*, *Botany*, *Fungal Ecology*, *Sydowia*, *Mycorrhizae*, *Ethology*, *Journal of Horticulture and Forestry*, and, *Canadian Journal of Microbiology*.
- 2013 - 2016. Designer and webmaster for microfungi imaging webpage:
<http://show.wnmu.edu/microfungi/index.php> (no longer active as of 2019).
2015. External Advisory Board member to Solano Community College's (CA) Single-Use Bioreactor SYSTEMS Education and Training (SUBSET) ATE grant.
2014. NSF STEP Central Advising Committee. Contributed ideas and guidance to STEP Central (now STEM Central) leadership.
2014. Co-organizer of NSF-STEP grantees' meeting (Washington, D.C.) with over 500 participants from all over the U.S. representing hundreds of STEP awards.
2014. Event supervisor for Science Olympiad, Southwest New Mexico regional.
2014. External Advisory Board member to the University of Florida's NSF funded STEP project: Strengthening a research university/minority-serving community college partnership (Eric Triplett, PI).
2013. Lead facilitator for the Vision and Change Conference, a national initiative to catalyze change in biological education community. Washington, D.C. (effort coordinated by AAAS).
- 2012-present. Senior Scientist, Sevilleta Long-term Ecological Research site.
2012. Volunteer for the Global Summit on merit review at the National Science Foundation.
- 2011-2014. Mycological Society of America membership committee, chair 2012-2014.
2012. Volunteer judge for Society of Chicanos and Native Americans in Science (SACNAS) student poster competition
2011. External reviewer for University of Northern Iowa's Department of Biology programs.
- 2006 - 2009. Truman State University's pre-medical advisor and webmaster <http://premed.truman.edu>.
- 2001 - 2009. Designer and webmaster for microfungi imaging webpage.
- 1999 - 2003. Mycological Society of America student travel award committee (chair 2003).
- 1998 - 1999. English as a Second Language volunteer teacher for migrant factory workers in Milan, MO.
1998. Presented two weeks of medical mycology material in Medical Microbiology
- 1997 - 2000. Ad hoc, Reviewer, *Mycologia*.
1997. Attended 1997 Project Kaleidoscope, learning-centered environments: the biology department of the future, Madison, WI.
- 1997 - 1998. Volunteer judge. Northeast MO regional high school science fair.
- 1999 - 2003. Mycological Society of America student travel award committee (chair, 2003).
- 1998 - 2005. Advisor to Phi Sigma Pi, National Honor fraternity.
- 1997 - 2006. Faculty advisor to Tri-Beta (National Biology Honor society).
- 1997 - 2005. Faculty advisor to Sigma Lambda Beta (Hispanic service/social fraternity).
- 1996 - 2011. Academic advisor to over 170 undergraduates.
- 1993 - 1996. Volunteer on Konza prairie fire crew. Assisted in conducting controlled burns on a 9000-acre prairie.
- 1993 - 1995. Corresponding scientist for the St. Louis Science Center education program.
- 1989 - 1991. Volunteer judge. Illinois regional 8th grade science fair.

COMMITTEE WORK:

- 2019-2020. Co-chair of Mercy College's Strategic Planning committee that was responsible for drafting the strategic plan for the entire institution.
- 2015-2016. Invited member of New Mexico's Governor, Susana Martinez's *Articulation and Transfer committee* responsible for overseeing changes in the State of New Mexico's General Education Program, common course numbering and developing educational pathways to improve the retention and graduation rates of New Mexico students in two- and four-year public universities.
- 2014-2016. Leading WNMU's General Education Committee tasked with restructuring WNMU's General Education Program.
- 2015-2016. Ex-Officio member of WNMU's Faculty evaluation committee, including spearheading efforts to initiate and manage an online platform (*EVKT*) for online evaluations of all WNMU courses. This initiative improved student compliance rates on evaluation from 12 to 52% in one year.
- 2013-2016. Member of Quality Planning Committee at WNMU that constructs, among other things, the vision and mission statements for the institution.

2012 - 2013. Management Committee for Division of Undergraduate Education at NSF.
2012. Core Launch Committee on STEM learning Environments at the National Science Foundation. 2010-2011.
2010. Member, Learning objectives for academic advisors committee, Truman State University (TSU).
2010. Chair, Senior capstone committee, TSU.
2009. Member, Dean of Science and Mathematics search committee, TSU.
2008 - 2009. Chair of the Department of Biology's Vision committee, TSU.
2008 - 2010. Member, Master's committee of Megan Folkerts, TSU.
2008 - 2009. Chair of greenhouse committee; designer and webmaster to greenhouse website, TSU.
2007 - 2008. Member, Ph.D. committee of Andrea Porras, Ph.D. student at the University of New Mexico.
2003 - 2011. Chair of biology web committee; designer and webmaster to biology website, TSU.
2000 - 2001. Invertebrate Ecologist search--committee chair, TSU.
2000 & 2004. Microbiology/Genetics search committee member 1999 - 2011. Biology Equipment Committee
1998. Postdoctoral Teaching Position Search Committee
1997. Science representative to Truman's Intercultural Committee for the new liberal studies program at Truman.
1997. Science representative to Truman's Instructional Services Committee.

AFFILIATIONS:

Mycological Society of America (lifetime member)
Society for the Advancement of Chicanos & Native Americans in Science (SACNAS, lifetime member)
Council on Undergraduate Research (CUR)
Tri-Beta (National Biological Honor Society, 1996-2009)