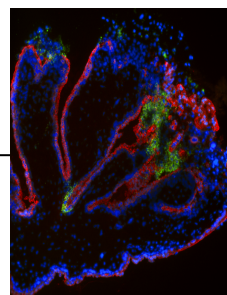


Curriculum Vitae Jennifer R. Robbins



Department of Biology
Xavier University
3800 Victory Pkwy
Cincinnati, OH 45207

Chair
Professor
robbins@xavier.edu
(513) 745-3624

Education

1996 – 2001

Ph.D., Biochemistry. Stanford University School of Medicine

Doctoral Thesis: "Function and Maintenance of Unidirectional Actin-Based Motility in Two Bacterial Pathogens."

Honors: NSF Graduate Research Fellow, Stanford Graduate Fellow

1993 – 1996

B.S., Biology, Ohio Northern University

Minors: Chemistry, Mathematics, History

Honors: Magna cum laude, Presidential Scholar (full tuition, College of Engineering), HHMI summer undergraduate research fellow (at Princeton University)

Employment

2019 – present

Chair, Biology Department, Xavier University, Cincinnati, OH

- Serve ~450 majors, 200+ allied health students and ~200+ other students annually
- Supervise 17 full-time faculty as well as ~4-8 adjuncts and 2 full-time staff
- Manage six-figure equipment and supplies budget and four-story building with labs
- Plan and execute course schedules, hiring searches, curricular changes, departmental initiatives, assessment, program reviews

2007 – present

Professor, Biology, Xavier University, Cincinnati, OH

Tenured and promoted in 2011, promoted in 2017

Courses: *Virology, Parasitology, Microbiology (in person and online), * Medical Genetics (online), General Biology, * Intro. to Life Sci., * Seminars in HIV, Human Reproduction, Senior Research*

In Ghana: West African Culture & Society, Service Learning, Ghana Prep Seminar. In Costa Rica: Tropical Biodiversity

Research: *Social ecology of HIV risk and prevalence*

Vertical transmission and dissemination of West Nile Virus in mosquitoes

Honors: Xavier Center for Teaching Excellence Faculty in Residence (2012-2013)

Jesuit Community Faculty Fellow (2011-2012)

Joan G. MacDonald Award for Outstanding Teaching in the Sciences (2011)

2017 – 2019

Associate Chair, Biology Department, Xavier University, Cincinnati, OH

Responsibilities included advising coordination, assessment, curricular development, senior research coordination

2008 – 2011

Visiting Associate Professor, Pediatrics, University of CA, San Francisco, CA

Research: *Pathogen mechanisms for vertical transmission across the placenta*

2007 – 2013

Director, Medical Lab Sciences program, Xavier University, Cincinnati, OH

Advised students in the program, coordinated with hospital programs for clinical year

2005 – 2007

Assistant Professor, Biology, St. Mary's College of California, Moraga, CA

Courses: *Immunology, * Molecular Biology, * Human Physiology, * Intro. Cell and Molecular Biology, * Evolution of Disease. * In South Africa/Lesotho: Structural Roots of the HIV/AIDS Epidemic*

Honors: Catholic Institute of Lasallian Social Action Faculty Fellow (2006-2007)

* Denotes lecture course with lab

2006 – 2007	Visiting Scientist , Molecular & Cellular Biology, University of CA, Berkeley, CA Research: <i>L. monocytogenes interactions with cellular autophagy system</i>
2002 – 2005	Laboratory Instructor , Biology, Xavier University, Cincinnati, OH Courses (all labs): <i>Vertebrate Anatomy, Genetics, Life Sciences, General Biology</i>
2003 – 2004	Visiting Scientist , Internal Medicine, University of Cincinnati, Cincinnati, OH Research: <i>Effects of hypoxia on T cell response to pathogens</i>
2002	Adjunct Professor , University of Cincinnati, OH & Edison Community College, Piqua, OH Courses: <i>Anatomy and Physiology*, College Algebra, Web Design</i>

Peer-Reviewed Publications

Undergraduates' names are underlined

1. Morrison, H.A., D. Lowe, **J. R. Robbins**, A.I. Bakardjiev. 2018. "In vivo virulence characterization of pregnancy-associated *Listeria monocytogenes* infections." *Infection and Immunity* 86(11): e000397-18.
2. Faralla, C., Bastounis, E. E., Ortega, F. E., Light, S. H., Rizzuto, G., Nocadello, S., **J.R. Robbins**, J.A. Theriot & Bakardjiev, A. I. 2018. "*Listeria monocytogenes* InlP interacts with afadin and facilitates basement membrane crossing." *PLoS pathogens*, 14(5), e1007094.
3. Lowe, D., **J.R. Robbins**, A.I. Bakardjiev. "Animal models of infection during pregnancy." 2018. *Infection and Immunity*, IAI-00801.
4. Vaughn, A. and **J.R. Robbins**. 2017. "Preparing Pre-Service K-8 Teachers for the Public School: Improving Evolution Attitudes, Misconceptions, and Legal Confusion." *Journal of College Science Teaching* 47(2): 7-15.
5. Buot, M-L. G., J.P. Docena, * B.K. Ratemo, * M.J. Bittner, J.T. Burlew, A.R. Nuritdinov, **J.R. Robbins**. 2014. "Beyond race and place: Distal sociological determinants of HIV disparities." *PLoS One* 9(4): e91711.
6. Zeldovich, V.B., C.H. Clausen, E. Bradford, D.A. Fletcher, E. Maltepe, **J.R. Robbins**, A.I. Bakardjiev. 2013. "Placental syncytium forms a biophysical barrier against pathogen invasion." *PLoS Pathogens* 9(12): e1003821.
7. **Robbins, J.R.**, A.I. Bakardjiev. 2012. "The placental fortress: Microbes and the maternofetal barrier." Invited review for *Current Opinions in Microbiology* 15(1): 36-43.
8. **Robbins, J.R.**, A. Poukchanski, * V.B. Zeldovich, * J. Boothroyd, A.I. Bakardjiev. 2012. "The syncytiotrophoblast acts as a barrier to *Toxoplasma gondii* placenta infection." *Infection and Immunity* 80(1): 418-428. [Article featured as cover]
9. Wasilewski, M., S.M. Rafelski, **J.R. Robbins**, A.I. Bakardjiev, L. Scorrano. 2012. "Optic Atrophy 1-dependent mitochondrial remodeling controls steroidogenesis in trophoblasts." *Current Biology* 22(13): 1228-34.
10. Zeldovich, V.B., **Robbins, J.R.**, M. Kapadzić, P. Lauer, A.I. Bakardjiev. 2011. "Invasive extravillous trophoblasts restrict invasion and intracellular escape of *Listeria monocytogenes*." *PLoS Pathogens* 7(3): e1002005. [Selected for Faculty of 1000 Evaluation]
11. **Robbins, J.R.**, K. M. Skrzypczynska, * V. B. Zeldovich, * M. Kapidzic, A.I. Bakardjiev. 2010. "The placental syncytiotrophoblast protects against *Listeria monocytogenes* direct invasion and intercellular spread." *PLoS Pathogens* 6(1): e1000732. [Article featured as cover; Featured as "Research Highlight" in *Nature Medicine* 16(3): 276; Selected for Faculty of 1000 Evaluation]
12. Meyer-Morse, N., **J.R. Robbins**, C.S. Rae, S.N. Mohegova, M.S. Swanson, Z. Zhao, H.W. Virgin, D. Portnoy. 2010. "Listeriolysin O is necessary and sufficient to induce autophagy during *Listeria monocytogenes* infection." *PLoS ONE* 5(1): e8610. doi:10.1371/journal.pone.0008610.

13. **Robbins, J.R.** and P. Roy. 2007. "The natural selection: Identifying and correcting non-science student preconceptions through an inquiry-based, critical approach to evolution." *American Biology Teacher* 69(8): 460-466.
14. **Robbins, J.R.**, D. Tierney and H. Schmitzer. 2006. "An optically-driven bacterial screw of Archimedes." *Applied Physics Letters*, 88; 023901. [Featured in "Nanozone News," Nature Online 01/26/06 <http://www.nature.com/materials/nanozone/news/060126/portal/m060126-2.html>]
15. Zakrzewska A., P.O. Schnell, J.B. Striet, A. Hui, **J.R. Robbins**, M. Petrovic, L. Conforti, D. Gozal, M.G. Wathélet, M.F. Czyzyk-Krzeska. 2005. "Hypoxia-activated metabolic pathway stimulates phosphorylation of p300 and CBP in oxygen-sensitive cells." *Journal of Neurochemistry* 94(5):1288-96.
16. **Robbins, J.R.**, S. Lee, A. H. Filipovich, L. Neumeier, P. Szigligeti, M. Petrovic, and L. Conforti. 2005. "Modulation of membrane potential and calcium homeostasis by hypoxia in human T lymphocytes." *Journal of Physiology* 564(1): 131 – 143.
17. Cameron, L.A., **J.R. Robbins**, M.A. Footer and J.A. Theriot. 2004. "Biophysical parameters influence actin-based movement, trajectory and initiation in a cell-free system." *Molecular Biology of the Cell* 15(5):2312-23.
18. **Robbins, J.R.** and J.A. Theriot. 2003. "*Listeria monocytogenes* rotates around its long axis during actin-based motility." *Current Biology* 13(19): R754 – R756.
19. **Robbins, J.R.**, D. Monack, S. McCallum, A.J. Vegas, E. Pham, M.B. Goldberg and J.A. Theriot. 2001. "The making of a gradient: Unipolar IcsA distribution in *Shigella flexneri*." *Molecular Microbiology* 41(4):861-72.
20. **Robbins, J.R.**, A. Barth, H. Marquis, E. de Hostos, W.J. Nelson and J.A. Theriot. 1999. "*Listeria monocytogenes* exploits natural host processes and structure to spread from cell to cell." *Journal of Cell Biology* 146(6):1333-49.

* - Authors contributed equally to this work

Books

1. **Robbins, J.R.** In preparation. *AIDS is Not a Place*.
2. **Robbins, J.R.**, D.N. Baldwin, S. McCallum, and J.A. Theriot. 2005. "Bacterial Manipulation of the Host Cell Cytoskeleton," pp. 275 – 298, in *Cellular Microbiology*, 2nd Edition P. Cossart, P. Boquet, S. Normark, and R. Rappuoli, eds.): ASM Press: Washington, D.C.
3. Seven in-house majors' and non-majors' lab manuals and workbooks (running 50,000 – 100,000 words each), for both Xavier University and St. Mary's College. 2004-2013.

Invited Talks

Undergraduates' names underlined

1. Vaughn, Ashley and **J.R. Robbins**. 2015. "Pre-Service K-8 Teacher Attitudes and Knowledge of Evolutionary Theory." Mid-Atlantic American Science Teacher Education (MA-ASTE) Regional Conference, Lore City, OH.
2. **Robbins, J.R.** 2015. "Evolution vs the Epistemology of Evil." "Teaching Evolution" workshop for K-12 teachers. University of Cincinnati.
3. **Robbins, J.R.**, V.B. Zeldovich, A. Poukchanski, J. Boothroyd, A.I. Bakardjiev. 2011. "*Listeria monocytogenes* and *Toxoplasma gondii* are subjected to multiple bottlenecks when crossing from mother to fetus." American Society for Microbiology General Meeting. New Orleans LA. (Mini-Symposium talk by A. Bakardjiev)

4. **Robbins, J.R.**, V.B. Zeldovich, K. Skrzypczynska, M. Kapidzac, A. Bakardiev. 2008. "Crossing the Line: How and why *Listeria monocytogenes* crosses the feto-placental barrier." University of Cincinnati College of Medicine Molecular and Cell Biology. (Invited seminar by J. Robbins)
5. Schmitzer, H., J. Swearingen, **J.R. Robbins**, D. Engle, W. Dultz, D. Tierney. 2006. "Helical Bacteria as Optically Driven Microrotors." German Society of Applied Optics. Wiengarten, Germany. (Invited talk by H. Schmitzer)
6. Conforti, L., **J. R. Robbins**, S. Lee, A. H. Filipovich. 2004. "Hypoxia modulates membrane potential and Ca^{2+} homeostasis in human T cells." FASEB Experimental Biology meeting. Washington, D.C. (Mini-Symposium talk by L. Conforti)
7. **Robbins, J.R.**, A. I. Barth, E. deHostos, W.J. Nelson, J.A. Theriot. 1999. "*Listeria monocytogenes* exploits natural host processes and structure to spread from cell to cell.", American Society of Cell Biology General Meeting. Washington, D.C. (Mini-Symposium talk by J. Robbins)

Peer-Reviewed Abstracts (Poster Presentations)

Undergraduates' names underlined

1. Reitz, A., S. Buchholz, C. Larson, D. Engle, **J. Robbins**, M. McIntosh. 2017. "Larval mosquito abundance and West Nile Virus positivity in wetlands of southwestern Ohio." Midwest Evolution and Ecology Conference. Urbana-Champaign, Illinois.
2. Gafranek J., J. Maxey, T. Sauerbeck, M. Burge, A. Calvopina, C. Larson, D. Engle, **J.R. Robbins**, M. McIntosh. 2016. "A temporal assessment of West Nile Virus in larval mosquito populations from wetlands in southwestern Ohio." Midwest Evolution and Ecology Conference. Hamilton, Ohio.
3. Davis, D., T. Horton, S. Reichman, J. Link, H. Schmitzer, **J. Robbins**, D. Engle. 2014. "Studying the transfer of optical orbital angular momentum to a helical bacterium." Bulletin of the American Physical Society. Denver, CO.
4. Zeldovich, V.B., **J.R. Robbins**, J. Gonzales, E. Maltepe, A.I. Bakardjiev. 2012. "Mouse trophoblast stem cell system to study infectious causes of preterm labor and placental defense mechanisms," American Society for Microbiology General Meeting. San Francisco, CA.
5. Wasilewski, M., S.M. Rafelski, **J.R. Robbins**, A.I. Bakardjiev, L. Scorrano. 2010. "Opa1 controls steroidogenesis in human placenta." Dulbecco-Telethon Institute VII Scientific Retreat. Terrasini, Italy.
6. Zeldovich, V.B., **J.R. Robbins**, A.I. Bakardjiev. 2010. "Human placental cytotrophoblasts restrict intracellular growth and spread of *Listeria monocytogenes* by vacuolar sequestration." American Society for Microbiology General Meeting. San Diego CA. [*V.B. Zeldovich received Outstanding Student Poster Award.*]
7. **Robbins, J.R.**, K. M. Skrzypczynska, V. B. Zeldovich, M. Kapidzac, S. J. Fisher, A.I. Bakardjiev. 2009. "Placental syncytiotrophoblast resists *Listeria monocytogenes* infection but is bypassed via extravillous cytotrophoblasts." American Society for Cell Biology General Meeting. San Diego CA.
8. Meyer-Morse, N., **J.R. Robbins**, C.S. Rae, D.A. Portnoy. 2007. "Autophagy in early *Listeria* infection." Keystone Symposium: Autophagy in Health and Disease. Monterey CA.
9. Shen, J., R. Wensley, C. Grossman, **J.R. Robbins**. 2007. "Manatee vocalization computational analysis." American Association for the Advancement of Sciences Annual Meeting. San Francisco CA.
10. Schmitzer, H., **J. Robbins** and D. Tierney. 2005. "Bacteria as micro-mechanical augers." Optical Society of America Annual Meeting. Tucson AZ.
11. Kluener, C.J., **J.R. Robbins**, G.A. Jacob, B.J. Schroeder, S. Herbert, and C. J. Grossman. 2005. "Presence of ultrasonic harmonics and a frequency modulation repertoire in male-to-male

vocalizations by captive adult Florida manatees.” Society for Marine Mammology Conference. San Diego CA.

12. **Robbins, J.R.**, D. Tierney, H. Schmitzer. 2005. “An optically-driven bacterial screw of Archimedes.” American Society for Cell Biology General Meeting. San Francisco CA.
13. **Straub, A., J.R. Robbins**, D. Tierney, H. Schmitzer. 2005. “Rotation of *Shigella* bacteria with optical tweezers.” American Association of Physics Teachers Annual Meeting. Albuquerque NM.
14. **Robbins, J.R.**, S. Lee, A. H. Filipovich, L. Conforti. 2004. “Hypoxia modulates T cell receptor-mediated activation in a subset of human T lymphocytes via Kv1.3 channels.” Biology of Hypoxia: The Role of Oxygen Sensing in Development, Normal Function and Disease. Keystone Symposium. Steamboat Springs CO.
15. **Robbins, J.R.** J.A. Theriot. 2000. “*Listeria* rotates longitudinally during actin-based motility.” Poster presentation, American Society of Cell Biology General Meeting. San Francisco CA.
16. **Robbins, J.R.** J.A. Theriot. 1998. “Characterization of *Listeria monocytogenes* intercellular spread in actin-GFP-expressing MDCK cells.” American Society of Cell Biology General Meeting. San Francisco CA.

Undergraduate Pubs (Peer-reviewed, but undergraduate, journals/conferences)

1. Carney, S., A. Goetze, A. Romer, J.R. Robbins. “Genetic variation in opioid addiction risk across five global ancestries.” 2017. National Conference for Undergraduate Research, Memphis, TN.
2. Nlandu, M., N. Ifeanyi., M. Price, T. Mahmoud, J.R. Robbins. “Comparison of sociological factors’ effect on HIV prevalence in rural vs urban counties in the U.S.” 2017. National Conference for Undergraduate Research, Memphis, TN.
3. Berry, M., E. Rowan, B. Schutzman, J.R. Robbins. “Influence of food preservatives on gut microbiota.” 2017. National Conference for Undergraduate Research, Memphis, TN.
4. Edwards, L., A. Kissner, H. Sorenson, J.R. Robbins. 2016. “Prevalence and Viability of Probiotic Bacteria in Infant Formulas and Supplements.” National Conference for Undergraduate Research, Asheville, NC.
5. CaJacob, E., S. Klenk, M. Klueppelberg, J.R. Robbins. 2016. “Expressed Breast Milk: Effects of Refrigeration on Bacterial Growth, pH, Lactose, and Protein.” National Conference for Undergraduate Research, Asheville, NC.
6. Lehan, N., K. Smith, J.R. Robbins. 2015. “2D:4D Digit Ratio: Indicator of Sports and Gaming Participation in Males.” *Xavier Journal of Undergraduate Research* 3:18-29.
7. Stapleton, N., B.J. Gannon, J.R. Robbins. 2014. “The transformation and conjugation of ampicillin resistant *Escherichia coli*.” *Xavier Journal of Undergraduate Research* 2:24-33.
8. Patterson, A., J. Litmer, K. Crouch, J.R. Robbins. 2014. “The effects of short-term exposure of naproxen on *Xenopus laevis* tadpoles.” National Conference for Undergraduate Research, Louisville, KY.
9. Stapleton, N., B.J. Gannon, J.R. Robbins. 2014. “The transformation and conjugation of ampicillin resistant *Escherichia coli* in a classroom setting.” National Conference for Undergraduate Research, Louisville, KY.
10. Perkins, K., K. Hoyt, I. Borczon, A. Cann, M. Costello, K. Swegheimer, D. Engle, G. Farnsworth, J.R. Robbins, M. McIntosh. 2014. “A two-year assessment of larval mosquito populations (Diptera: Culicidae) in Southwestern Ohio.” National Conference for Undergraduate Research, Louisville, KY.

11. Costello, M., K. Swegheimer, K. Hoyt, I. Borczon, A. Cann, K. Perkins, D. Engle, G. Farnsworth, M. McIntosh, **J.R. Robbins**. 2014. "West Nile Virus detection by RT-PCR in immature mosquitoes in Southwest Ohio." National Conference for Undergraduate Research, Louisville, KY.
12. Hellman, D., N. Pease, M. Costello, **J.R. Robbins**. 2013. "Evaluation of Antibiotic Resistance Emerging from use of Antibiotics in CAFOs." *Xavier University Journal of Undergraduate Research* (1)1.
13. Costello, M., Hellman, D., Pease, N., **J.R. Robbins**. 2013. "Antibiotic resistant bacteria in water and soil near concentrated animal feeding operations in southwest Ohio." National Conference for Undergraduate Research, La Crosse, WI.
14. Curran, K.C., **J.R. Robbins**, L. Conforti. 2004. "Hypoxia decreases T cells' ability to respond to pathogens." Posters on the Hill, Council on Undergraduate Research. Washington, D.C.
15. Curran, K.C., **J.R. Robbins**, L. Conforti. 2004. "Pre-exposure to hypoxia depresses the cytosolic calcium plateau of T cell activation." National Conference of Undergraduate Research. Indianapolis, IN.
16. Thirty-five student posters representing ~100 undergraduates at annual Xavier Celebration for Student Research, 2004-2018. Original experiments included those published above, plus: Capsaicin failure to inhibit biofilm growth; Limb ratio differences in short vs long distance runners; Effects of crowds on captive animal behavior; Intercellular spread of *L. monocytogenes* between liver and macrophage cells; Yeast strain influence on beer color; West Nile Virus prevalence in Cincinnati mosquito larvae; and more.

Other Educator Experience

- | | |
|----------------|--|
| 2015 – present | MCAT Prep Course Instructor, Xavier University. <i>Offering night review sessions for MCAT each spring, with several other science faculty. Each instructor teaches his/her own subject area; I cover most biology topics.</i> |
| 2018 – 2019 | Sunday School Teacher, Heritage Universalist Unitarian Church, Cincinnati, OH. |
| 2007 – 2009 | <i>Religious education lessons, grades 2-3 and Our Whole Lives program, grades 7-9.</i> |
| 2012 – 2013 | Faculty in Residence, Center for Teaching Excellence, Xavier University. <i>Taught "flipped" course (lectures online before class; activities in class) in open classroom observed by visiting faculty; offered demonstration lectures and activities to Xavier faculty and staff.</i> |
| 2007 – 2011 | Guest Lecturer in Bioethics, Medicinal Chemistry, South African History courses, Xavier University. <i>Have delivered 19 guest lectures on various aspects of global HIV, including: Structural violence and HIV in Southern Africa, Antiretroviral treatment.</i> |
| 2009 – 2010 | Co-trip leader in Costa Rica Tropical Biodiversity course, Xavier University. <i>Worked with Xavier ecologist Dr. George Farnsworth to lead/teach 10-day travel course.</i> |
| 2002 – 2003 | Science Education Consultant, Botkins School District, Botkins, OH. <i>Coordinated teachers and students, grades 6-12, in adapting new technologies to classrooms and in an NSF-funded water quality testing project.</i> |
| 2001 (3 mos) | Biology Teacher Intern, Peace Corps Volunteer. Arusha Meru School, Arusha, Tanzania. <i>Taught grade 8 and 13 (A-level) biology.</i> |
| 2000 – 2001 | Science Teacher, Castilleja High School, Palo Alto, CA. <i>Taught biology, grades 9 & 12.</i> |
| 1996 – 2001 | Tutor: volunteer, with Tibetan refugee children; and with One-to-One Tutoring, both in Palo Alto, CA. <i>Tutored children in grades 6-9.</i> |

- 1998 – 2000 Consultant, Biology Exhibit Design (volunteer), Exploratorium Museum, San Francisco, CA. *Improved live specimen protocols, taught staff video microscopy. This laid groundwork for grants resulting in major interactive museum microscope exhibit in 2004.*
- 1994 – 2000 Teaching Assistant, Stanford University and Ohio Northern University. *Taught biology, history courses to freshmen through first-year medical students.*

Other Mentoring Experience

- 2012 – 2016 Biology department advising. *Planned and executed 15+ speaker career seminar series for freshmen and for seniors; coordinate mass advising sessions to inform students about core and major requirements; create and run social media-driven information systems for opportunities and deadlines (eg research, study abroad, etc.).*
- 2009 – 2010 Student Achievement in Research and Scholarship (STARS) Mentor to Xavier undergraduate. *STARS supports underrepresented minorities in the sciences.*
- 2009 – 2010 Mentor to Ph.D. student, University of Cincinnati Preparing Future Faculty (PFF) program. *PFF participants shadow 40 hours, guest-lecture and meet to discuss career expectations and progress. Also served on multiple PFF Q&A panels, '08- '11.*
- 2004 – 2005 “Big Sister” and Activity Leader, Holly Hills Children’s Services, California, KY. *HHCS is a home for girls with behavior problems preventing foster placement.*
- 2003 – 2005 Ernest E. Just Society co-founder and tutor, Xavier University, Cincinnati, OH. *Society works to increase minority student retention in the natural sciences.*
- 2001, summer Stanford Summer Research Program Ass’t Director, Stanford School of Medicine, Stanford, CA. *SSRP recruits underrepresented minorities nationally for summer lab work.*
- 1999 – 2000 FARM Freshman Mentor, Stanford University, Stanford, CA. *FARM provides support system for first-generation college students in the sciences.*

Major Committee & Significant Professional Service

- 2018 – present University Planning and Resourcing Council (UPRC) Faculty Representative, Xavier University. *UPRC is charged with advising senior administration and voting on budget priorities. Appointed by Provost.*
- 2018 – present College of Arts And Sciences Advisory Council Member, Xavier University. *Council advises the Dean on college leadership and major decisions. Elected by faculty.*
- 2018 – present Ethics/Religion and Society (E/RS) Committee Member, Xavier University. *Oversaw course approvals in the E/RS program, part of the core curriculum. Elected by faculty.*
- 2019 – 2020 President’s Cabinet Member, Xavier University. *Appointed faculty member to the President’s cabinet. Attend cabinet meetings and official functions.*
- 2016 – 2018 Faculty Evaluations Task Force, Xavier University. *Redesigned faculty evaluations to improve efficiency and utility. Appointed by Provost.*
- 2016 – 2018 Academic Program Health Committee, Xavier University. *Task force developed a dashboard to continually assess and improve programs across the university, building a sustainable program review process. Appointed by President.*

2017 – 2018	Chair, Board of Graduate Studies, Xavier University. <i>Organized, approved and oversaw changes to graduate programs and development of new graduate programs. Elected by faculty.</i>
2015 – 2017	Board of Graduate Studies Member, Xavier University. <i>Approve and oversee changes to graduate programs and development of new graduate programs. Elected by Faculty.</i>
2017	Health United Building Task Force, Xavier University. <i>Helped to identify needs and plans for a new ~200,000 ft² building to house allied health programs as well as student rec and health centers. Appointed by Dean.</i>
2010 - present	Health Sciences Committee, Xavier University. <i>Committee oversees mock interviews and writes recommendations for students' medical or other health school applications.</i>
2015 – 2016	Co-Chair, Scholars Program Task Force, Xavier University. <i>With humanities faculty partner, lead the redesign of Xavier's Scholars (honors) curriculum and subsequent transition. Appointed by Dean.</i>
2013 – 2015	Co-Chair, Core Curriculum Committee, Xavier University. <i>With humanities faculty partner, coordinated the efforts of >150 faculty and staff to revise and implement a new university core curriculum, the first revision in ~20 years. Elected by Faculty.</i>
2012 – 2014	Core Curriculum Assessment Committee Member, Xavier University. <i>Selected by Faculty Committee and Provost to complete XU's first two rounds of core curriculum assessment. Elected by Faculty.</i>
2013	Core Curriculum Goals and Student Learning Objectives Development Task Force Member, Xavier University. <i>Worked in 9-member group to develop an assessable statement of core curriculum goals and SLOs. Appointed by Provost.</i>
2013 – 2014	Physics Department Rank and Tenure Committee Member, Xavier University. <i>Aided in departmental-level evaluation of scientist applications. Appointed by Dean.</i>
2012	NSF Grant Proposal Reviewer, National Science Foundation. <i>Reviewed various NSF proposals in programs targeted toward primarily undergraduate institutions</i>
2010 – 2012	Pilot Core Curriculum Committee Member, Xavier University. <i>Represented science departments (Biology, Chemistry, Physics) on university-wide committee to establish evaluative procedures for Xavier's core curriculum. Elected by Faculty.</i>
Oct., 2010	External Reviewer for Southern Association of Colleges and Schools Re-Accreditation of Thomas More College, Crestview Hills, KY. <i>Evaluated Medical Technology program.</i>
2007 – 2015	Director, Medical Laboratory Sciences Program, Xavier University. <i>Oversaw Xavier's 3+1 MLS program, where students complete three years at Xavier and one year at one of two clinical partners. Advised students, updated curriculum. Appointed by Dean.</i>
2004 – 2012	Search Committees Member. <i>Have served on nine search committees for both faculty (in and out of Biology) and associate provost.</i>

Service Learning and Civic Activities

2018 - present	Sands Montessori Parent Teacher Organization (SMPTO) Enrichment Program Coordinator. <i>Work with enrichment providers and parents to offer, advertise, organize and keep after- and before-school programs (music lessons, karate, Spanish, drawing, etc) running smoothly.</i>
2013 – 2016	Volunteer Workshop Leader/Lecturer, Xavier University Montessori Lab School (ages 3-12) and Cincinnati Breakthrough summer program (ages 14-16). <i>Offer workshops, lectures, and/or lab experiences ~3-5 times per year.</i>

- 2009 – 2010 Co-Trip Leader/Professor, Academic Service Learning Semester, Xavier University. *With XU colleague Kathleen Smythe, coordinated service learning semester in Kumasi, Ghana, including home stays, Kumasi-based staff, volunteer sites and 17 hours of college credit for Xavier students; taught/led ½ of semester and preceding prep course.*
- 2003 – 2011 Faculty Learning Partner, Alternative Breaks Club, Xavier University. *Five years of fundraising, weekly meetings and 7-10 day service learning trips in Vancouver ('10-11, green urbanism); Pine Ridge Reservation ('08-09, Native American poverty); Kiev, Ukraine ('07-08, orphans); San Salvador & Piedra Azul, El Salvador (2004-05, fair trade); Birmingham, Alabama ('03-04, AIDS-associated dementia).*
- 2007 – 2008 StopAIDS volunteer, Cincinnati, OH. *Monthly service work for local AIDS patients.*
- 2006 – 2007 Director/Professor, AIDS in Africa Service Learning Course, Kwa Zulu Natal, South Africa and Lesotho. *Organized and led 30-day trip. Course integrated service with late-stage AIDS patients, children orphaned by AIDS and a community credit program.*
- 2004, summer Ceramics Analyst, Cornell Halai and East Lokris Project, Theologos, Greece. *Pilot project on microscopy-based classification system for ceramic sherds.*
- 2002, summer Volunteer, St. Eustatius National and Marine Park, St. Eustatius, Netherlands Antilles. *Optimized dive fee structure and analyzed dive shop compliance.*
- 1997 – 1998 Associated Students of Stanford University Graduate Housing Task Force Member, Stanford University, Stanford, CA. *Task force prepared 100+ page report for Provost Condoleezza Rice, staged 1000-person rally; subsequently new housing options created.*
- 1996 – 1998 Board Member, American Association of University Women, Palo Alto Branch, CA. *Edited and designed monthly newsletter.*