

OLA A. OLAPADE

Department of Biology
Albion College
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EDUCATION:

- 2004 Ph.D. in Microbial Ecology, Kent State University, Kent, OH, USA
- 1998 M.S. in Biology, Millersville University of PA, Millersville, PA, USA
- 1995 M. Sc. in Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria
- 1990 B.Sc. in Environmental Health and Epidemiology, Obafemi Awolowo University, Ile-Ife, Nigeria
- 1989 Associate Degree in Public Health, West African Health Examination Board, Lagos, Nigeria

TEACHING EXPERIENCE:

- 8/06 – Present: **Assistant; Associate & Full Professor of Biology:** Albion College, Biology Department: Responsible for teaching the following courses: **Microbiology** (Bio 332); **Environmental Microbiology** (Bio 365); **Virology** (Bio 367); **Cell and Molecular Microbiology** (Bio 210); **Ecology, Evolution and Biodiversity** (Bio 195L); **Upper-level Seminars** (Bio 401- The Microbial World; Current Topics in Virology and Epidemiology); **Selected Topics** (Bio 389- Microbes & Public Health); **FYE/LA101 Seminars** i.e. Microbes & Human Affairs; The Virus Hunters. Emerging Infectious & Communicable Diseases. **Human Microbiology** (Biol 232); **Honors** (HSP 126H)-Microbes & Society
- 9/02 – 5/04: **Teaching Assistant & Guest Lecturer:** Kent State University, Department of Biological Sciences: Taught sections of Biological Principles and General Microbiology to first year biology and upper-level nursing students, respectively. Also co-taught a graduate seminar with my doctoral advisor for two back-to-back semesters within the department.
- 9/99 – 8/00: **Teaching Assistant:** Kent State University. The Upward Bound Math and Science Program: Taught various summer classes including Biological Data Analysis; Physics and also coordinated monthly workshops:
- 9/96 – 12/98: **Instructor and Counselor Coordinator:** Millersville University of PA, Millersville, PA- Department of Developmental Studies (The Upward Bound Program). Taught various advanced placement (AP) courses to college-bound high school seniors:

RESEARCH EXPERIENCE:

- 6/21-7/21: **Visiting Carnegie Research (CADFP) Fellow** to The University of Fort Hare, Alice Campus, South Africa sponsored by the Carnegie Corporation, NY and the Institute of International Education (IIE)
- 8/19-11/19: **Visiting Research Professor.** Cumming School of Medicine's Department of Physiology and Pharmacology, University of Calgary, Canada. Engaged in scientific meetings with members of Dr. Marie- Claire Arrieta's laboratory at the Foothills Medical Campus on microbiome projects. Also, presented my research work on Microbial Ecology and discussed future scientific collaborations. During this sabbatical period, also conducted field work in Cape town, South Africa to delineate microbial

- assemblages in the Atlantic and Indian Oceans and their points of confluence at the Cape of Good Hope and other sites
- 6/12 -10/12: **Visiting Research Professor.** Hawkesbury Institute for the Environment, University of Western Sydney, Australia. Also, sabbatical leave visitation to the University of West Indies, Jamaica. Conducted various research activities on soil microbes and bioremediation as well as coastal marine microbial assemblages.
- 6/10 – 7/10: **Visiting Research Professor:** Al Akhawayn University in Ifrane, School of Science & Engineering, Morocco. Conducted Research on the isolation & characterization of indigenous bacterial populations from two mid-atlas, high altitude lakes (Aouwa & Ifrah) in Fes, Morocco.
- 1/06 – 6/06: **Postdoctoral Research Associate:** Iowa State University of Science and Technology, Department of Microbiology. Participated in various research activities that primarily examined alginate production among the *Pseudomonads* in biofilm communities.
- 6/04 – 12/05: **Postdoctoral Research Associate:** University of Wisconsin-Milwaukee, The Great Lakes WATER Institute and Aquatic Research, Milwaukee. Conducted research projects that examined the microbial community composition within the Lake Michigan Watershed. Also assisted in the supervision of a graduate (MS) student working on a similar project.
- 9/02 – 5/04: **Research Assistant:** Kent State University, Kent, OH, Department of Biological Sciences, Aquatic Ecology Laboratory. Served as the lead graduate student on two concurrent long-term ecological research (LTER) projects that examined microbial structures in streams and rivers from various regions of the USA. Also supervised several graduate and undergraduate (REU) students during field and laboratory activities.
- 9/97- 5/98: **Research Assistant:** Millersville University of PA, Millersville, PA, Department of Biology. Conducted research designed to examine the effects of motor oil on indigenous microbial populations in different soil types. Also participated in a group research that examined the incidence of *Staphylococci* on various surfaces
- 5/92 – 9/94: **Research Fellow:** Obafemi Awolowo University, Ile-Ife, Nigeria, Department of Microbiology. Conducted research on the effectiveness of conventional water treatment techniques on the bacteriological status of crude-oil polluted public water supply.
- 10/90 – 9/91: **Site Scientist:** Adamawa State Urban Planning and Development Authority, Yola, Nigeria. Served as the Environmental health officer responsible for water quality monitoring as well as sewage and solid waste management for a city of over 2 million citizens. Conducted quality control related research activities with surveyors, civil engineers and fellow environmental/industrial microbiologists.

PEER-REVIEWED PUBLICATIONS (Submitted and published)

(Italicized names are those of undergraduate students)

- Olapade O.** Cross-site Comparison of Coastal Bacterial Occurrences and Diversity at Selected Sites along the Atlantic Ocean in Monrovia, Liberia. African Journal of Microbiology Research doi.org/10.5897/AJMR2023.9690
- Adeoye JK, Semerjian L, Osaili T, **Olapade O** and Okoh AI. 2021. Occurrence of multidrug-resistant *Listeria monocytogenes* in environmental waters: a menace of environmental and public health concern. Frontiers in Environmental Science. doi: 10.3389/fenvs.2021.737435

- Digban TO, Gxalo O, Igere BE, **Olapade** OO, Okoh AI, and Nwodo UU. 2021. Virulence and antibiotic resistance characteristics of *Vibrio* isolates from rustic environmental freshwaters. *Frontiers in Cellular and Infection Microbiology*. doi:10.3389/fcimb.2021.732001
- Olapade** O. 2020. Bacterial community composition and diversity along the southern coastlines of the Atlantic Ocean in Cape Town, South Africa. *African Journal of Microbiology* Doi.org/10.5897/AJMR2020.9389
- Wilkerson A. and **Olapade** O. 2020. Relationships between organic matter contents and bacterial hydrolytic enzyme activities in soils: Comparison between seasons. *Current Microbiology*. Doi:10.1007/s00284-020-02223-9
- Olapade** O. 2020. A preliminary assessment of the spatial distribution and diversity of microbial assemblages within an inland salt marsh in southeastern Michigan, USA. *Journal of Marine Biology and Oceanography* 9:2
- Olapade** O. and Rasmussen L. 2019. Effects of Iron and Copper treatments on the Bacterioplankton Assemblages from surface waters along the north branch of the Kalamazoo River, Michigan, USA. *Journal of Basic Microbiology* DOI: 10.1002/jobm.201800652
- Hanauer D.I, Graham MJ, SEA-PHAGES et al. 2017 An Inclusive research education community (iREC): Impact of the SEA-PHAGES program on research outcomes and student learning. *Proceedings of the National Academy of Sciences (PNAS)*. DOI/10.1073/pnas.1718188115.
- Olapade** O. 2017. Community composition and diversity of coastal bacterioplankton assemblages in Lakes Michigan, Erie and Huron. *Microbial Ecology* DOI: 10.1007/s00248-017-1081-0
- Olapade** O. 2016. Biogeography and community diversity of epilithic bacterial assemblages on monuments: Comparisons between Maya Sites. *Journal of Pollution Effect & Control*. DOI: 4176/2375/4397.10000176.
- Rasmussen L and **Olapade** O. 2016. Influence of Zinc on bacterial populations and their proteolytic enzyme activities in freshwater environments: A cross-site comparison. *Canadian Journal of Microbiology* doi: 10.1139/cjm-2015-0638.
- Olapade** O. 2015. Phylogenetic characterization and community diversity of hydrocarbon-degrading bacterial populations in soil microcosms enriched with various aromatic hydrocarbons. *Journal of Bioremediation and Biodegradation* 6:305. doi:10.4172/2155-6199.1000305.
- Olapade** O. and Ronk J. A. 2015. Isolation, characterization and community diversity of indigenous putative toluene degrading bacterial populations with catechol-2, 3-dioxygenase genes in contaminated soils. *Microbial Ecology*, 69 (1): 59-65.
- Anissi, J. Sendide, K., **Olapade** O. 2014. Seasonal shifts in the bacterioplankton assemblages of high-altitude middle atlas lakes. *Journal of Water Resources and Protection*. vol 6.1-7
- Olapade** O. 2013. Occurrence, ubiquity and proficiency of hydrocarbon-degrading microbial assemblages in nature. *Journal of Pollution Effect & Control* 1: e106 doi: 10.4172/jpe.1000e106.
- Olapade** O. 2013. Molecular characterization of bacterial phylogenetic and functional groups at the site of the Deepwater Horizon oil spill along the Gulf of Mexico. *Journal of Petroleum and Environmental Biotechnology*. 4:144. doi: 10.4172/2157-7463.1000144.
- Olapade** OA, Pung, K. 2012. Plant associated bacterial populations on native and invasive plant species: Comparison between two freshwater environments. *Canadian Journal of Microbiology* 58: 767-775.

- Olapade O.** 2012. Diel fluctuations in the abundance and community diversity of coastal bacterioplankton assemblages over a complete tidal cycle. *Microbial Ecology*. 67 (1):96- 102.
- Olapade O., Pung, K., Goldman, E., and Lyons-Sobaski S.** 2011. Occurrence and diversity of epiphytic microbial communities on two native plants species in a Michigan Creek. *Journal of Freshwater Ecology*. 26 (2):267-276.
- Olapade O.** 2010. Molecular analyses of the diversity in marine bacterioplankton assemblages along the coastline of Northeastern Gulf of Mexico. *Canadian Journal of Microbiology* 56: 853-856.
- Olapade O and Weage EA.** 2010. Comparison of fecal indicator bacterial ecology in surface waters of the Kalamazoo River (USA). *Microbes & Environments* 25 (1):41- 44.
- Kinzelman J, McLellan SL, Amick RA, Preedit J, Scopel CO, **Olapade OA**, Gradus S, Singh A. and Sedmak G. 2008. Identification of potential human pathogens in gull feces at southwestern Lake Michigan beaches. *Canadian Journal of Microbiology* 54 (12) 1006-1015.
- Olapade O and Leff LG** 2006. Influence of dissolved organic matter and inorganic nutrients on biofilm bacterial community on artificial substrates in a Northeastern Ohio stream (USA). *Canadian Journal of Microbiology* 52:540-549.
- Olapade O, Brothers A, Crissman M, Gao X, and Leff LG.** 2006. Comparison of planktonic microbial communities among nine North American streams. *Arch. Fur Hydrobiologie* 165 (2): 221-239.
- Olapade O, Depas MM, Jensen ET, and McLellan SL.** 2006. Microbial communities on *Cladophora* mats along the coastlines of Lake Michigan. *Applied and Environmental Microbiology*. 72 (3) 1932-1938.
- Gao X, **Olapade OA**, and Leff LG 2005. A comparison of benthic bacterial community composition in nine streams. *Aquatic Microbial Ecology*. 40 (1): 51-60.
- Olapade OA, Gao X, and Leff LG** 2005. Abundance of three bacterial populations in selected streams. *Microbial Ecology*. 49 (3): 461-467.
- Olapade OA and Leff LG** 2005. Seasonal response of stream biofilm communities to dissolved organic matter and nutrient enrichments. *Applied and Environmental Microbiology*. 71 (5): 2278-2287.
- Olapade OA and Leff LG** 2004. Seasonal dynamics of bacterial assemblages in epilithic biofilms in a Northeastern Ohio Stream. *Journal of North American Benthological Society* 23(4): 686-700.
- Gao X, **Olapade OA**, Kershner MW, and Leff LG 2004. Algal-bacterial co-variation in freshwater streams: A cross-stream comparison. *Arch. Fur Hydrobiologie* 159: 253-261.
- Olapade OA, and Leff LG.** 2003. The effect of toluene on the microbial community of a Northeastern Ohio River, USA. *Journal of Freshwater Ecology* 18(3): 465-477.
- Olapade OA and Ladd TI** 1998. A study on the effects of motor oil on indigenous bacterial populations in soil. *J. Penn. Acad. Sc. Volume 71*.
- Olapade OA, Latin A and Ladd TI** 1997. Incidence of surface-associated *Staphylococci* on a college campus. *J. Penn. Acad. Sc. Volume 70*.

Manuscripts in Preparation and/or under Revision:

- Olapade O.** Bacterial community assessment in surface waters along coastal and island sites of the western Indian Ocean in Kenya and Tanzania (under review)
- Olapade O.** Seasonal trends in autochthonous bacterial occurrences and in fluorescein diacetate (FDA) activities in different soil types (in preparation)

CONFERENCE PRESENTATIONS & PUBLISHED ABSTRACTS

(Italicized names are those of undergraduate students)

- Olapade O.** Microbial Deterioration of Architectural Sites and Monuments: A case study of two Mayan sites, 1st URNM International Scientific Conference. Dec 13-13, 2023, Angola
- Olapade O.** Cross-site Comparison of Coastal Bacterial Occurrences and Diversity at Selected Sites along the Atlantic Ocean in Monrovia, Liberia. International Conference and Exhibition for Science (ICES 2023), February 6-8th, Riyadh, Saudi Arabia.
- Olapade O.** Spatial distribution and diversity of bacterial assemblages in the Laurentian Great Lakes: comparisons between Lakes Michigan, Erie and Huron. Federation of European Microbiologists (FEMS 2017), July 9th-13th, Valencia, Spain.
- Stander M, Sannes J, and **Olapade O.** The SEA-PHAGES 8th Annual Symposium at JCR Conference Center and HHMI Faculty Meeting at The Janelia Research Campus, Ashburn Virginia, June 10-June 12th, 2016.
- Saville K and **Olapade O.** The Bioinformatics Workshop: Annotation and Bioinformatics Analysis of Bacteriophage Genome. Howard Hughes Medical Institute, Chevy Chase, Washington DC, December 7-11, 2015
- Saville K., Hellman K. and **Olapade O.** The SEA-PHAGES: In Situ Workshop at the Howard Hughes Medical Institute, University of Maryland Baltimore County, July 12-17, 2015
- Olapade O.** Phylogenetic Characterization and Community Diversity of Hydrocarbon-Degrading Bacterial Populations in Soil Microcosms Enriched with various Aromatic Hydrocarbons. FEMS 6th Congress of European Microbiologists, Maastricht, The Netherlands June 9- 11, 2015
- Olapade O.** Quantification of Indigenous Bacterial Phylogenetic and Functional Groups at Terrebonne Bay along the coastline of the Gulf of Mexico using combinations of Fluorescence in situ Hybridization and Epifluorescence Microscopy, MC 2013, University of Regensburg, Germany. August 25-30, 2013.
- Olapade O.** GLCA Course Connection Workshop, American University in Bulgaria, Blagoverard, Bulgaria. August 15-19, 2013.
- Olapade O.** Detection of *Escherichia coli* beta-glucuronidase gene from environmental samples using combinations of conventional and quantitative PCR approaches. GLCA International Conference on Water, College of Wooster, OH, June 23-27, 2013
- Olapade, O.** Molecular characterization of bacterial phylogenetic and functional groups at the site of the Deepwater Horizon Oil Spill along the Gulf of Mexico. International Society for Microbial Ecology, Copenhagen, Denmark, August 21-25, 2012.
- Koehler J and **Olapade O.** Detection of *Escherichia coli* beta-glucuronidase gene from environmental samples using combinations of conventional and quantitative PCR approaches. American Society for Microbiology. October 8-9, 2011. University of Michigan-Dearborn.
- Olapade O.** Diel Fluctuations in the abundance and community diversity of coastal bacterioplankton assemblages over a complete tidal cycle. Asian Congress on Biotechnology, Shanghai, China, May 11-15, 2011.
- Pung, K and **Olapade O.** Assessment of the source, fate and transport of fecal indicator bacterial populations by polymerase chain reaction detection along the Kalamazoo River. Tri Beta meeting at Ohio University, Miami OH, April 2011.
- Goldman, E and **Olapade O.** Comparison between autotrophic and heterotrophic microbial communities along nutrient gradients in Rice Creek, Michigan. Tri Beta meeting at Ohio University, Miami OH, April 2011.
- Pung, K., Goldman, E, Lyons-Sobaski S., and **Olapade O.** Phylogenetic composition and diversity of epiphytic microbial communities on native and invasive plant species.

- American Society for Microbiology. April 9-10, 2010. Western Michigan University, Kalamazoo, MI (Also presented during Tri Beta meeting in Holland MI in July 2010).
- Estill M and **Olapade, O. A.** 2009. Associations of livestock farms and Rice Creek's health: A microbiological examination. American Society for Microbiology. March 27-28, 2009. Bay City/Saginaw, MI. (*Student won the best oral presentation award at the meeting).
- Vyas S and **Olapade OA.** 2009. Spatial and temporal comparison of bacterial community composition in selected adult oral cavities. American Society for Microbiology. March 27-28, 2009. Bay City/Saginaw, MI.
- Weage, E and **Olapade OA.** 2008. Comparisons of antibiotic resistance patterns of bacterial isolates from the Kalamazoo River. American Society for Microbiology. April 11-12, 2008. Mount Pleasant, MI. (*Student won the best oral presentation award at the meeting).
- White, L., and **Olapade OA.** 2008. The abundance and compositional variations of surface associated bacterial populations in teeth plaque assemblages in response to food consumption. American Society for Microbiology. April 11-12, 2008. Mount Pleasant, MI.
- McLellan, S L., **Olapade, O. A.**, Jensen, E.T., and Depas, M. M. 2005. Microbial communities associated with Cladophora mats along the coastlines of Lake Michigan. June 5-9, 2005, Atlanta, GA.
- Kinzelman, J., McLellan, S. L. **Olapade OA.**, Amick, R. A., Pond, K. R., and Bagley, R. C. 2005. Identification of potential human pathogens in gull feces at southwestern Lake Michigan beaches. June 5-9, 2005, Atlanta, GA.
- Olapade O** and Leff, L. G. 2004. Nutrient limitation of bacterial populations in biofilms in a northeastern Ohio (USA) stream. May 23-27, 2004, New Orleans, LA.
- Olapade OA** and Leff LG. 2003. Temporal changes in *proteobacterial* populations in biofilms on cobbles in a Northeastern Ohio stream. American Society for Microbiology-Biofilm meeting. November 1-6, 2003, Victoria, British Columbia, Canada.
- Olapade OA** and Leff LG. 2003. Response of stream bacterial populations in biofilms to inorganic nutrients and dissolved organic matter. Ecological Society of America meeting. August 3-8, 2003, Savannah, Georgia.
- Olapade OA** and Leff LG. 2003. Response of stream bacterial populations in biofilms on artificial substrates to dissolved organic carbon and inorganic nutrients. American Society for Microbiology meeting. May 18-22, 2003, Washington, D.C.
- Gao, X, **Olapade OA** and Leff LG. 2002. Algal-bacterial co-variation in freshwater streams. American Society for Microbiology meeting. May 19-23, 2002, Salt Lake City, Utah.
- Gao, X, **Olapade OA** and Leff LG. 2002. Cross-stream comparison of sediment bacterial communities. North American Benthological Society Conference, May 28 – June 2, 2002, Pittsburgh, Pennsylvania.
- Olapade OA** and Leff LG 2001. The effect of toluene on the microbial community of a Northeastern (Ohio) USA River. American Society for Microbiology meeting. May 20-23, 2001, Orlando, Florida.
- Garcia-Tien, J. and **Olapade OA** 1998. Current levels of participation and proficiency in science and mathematics' fields of study by African-American and Latino students: A case study of students in selected schools from three Pennsylvania counties". A paper presented at the 22nd annual Mid-Eastern Educational Opportunity Program Personnel (MEAEOPP) conference. May 6 - 8, 1998, Wheeling, West Virginia.
- Olapade OA** and Garcia-Tien, J. 1997. "Eco-psychology: Its relevance in student development programs. A paper presented at the 21st MEAEOPP Conference. April 20-23, 1997, Pittsburgh, Pennsylvania.

INVITED SEMINARS:

- Olapade OA** June 2021. Metagenomic Analysis of Environmental Samples. Department of Microbiology and the Applied & Environmental Microbiology Research Team, University of Fort Hare, Alice Campus, South Africa
- Olapade OA** November, 2019. Biogeographical Occurrences, Diversity and Distribution of Microbial Assemblages in Nature: Is everything found everywhere or does the environment select. University of Calgary, Alberta, Canada
- Olapade OA** September, 2016. Microbial Biogeography: Occurrence, Diversity & Distribution of Microbial Assemblages in Natural Environments. Faculty Lecture. Albion College
- Olapade OA** July 2010. Microbial Biogeography, Diversity & Ecology in Aquatic Systems: From Freshwater to Marine Environments. 2nd International Workshop & 9th Annual Meeting on Bioinformatics, Biotechnology & Pharmaceutical Sciences, School of Science & Engineering, Al Akhawayn University in Ifrane, Morocco.
- Olapade OA** July, 2010. Career Pathways in Microbiology at Undergraduate/Liberal Arts Institutions, America Society for Microbiology Kadner Institute for Graduate Students and Postdoctoral Scientists in Preparations for Careers in Microbiology. Michigan State University, East Lansing, MI
- Olapade OA.** December, 2005. Dynamics of Microbial Communities in Freshwater Environments. Department of Biology, Albion College, Albion, MI.
- Olapade OA.** November, 2005. Dynamics of Microbial Communities in Aquatic Systems Florida A & M University, Environmental Science Institute, Tallahassee, FL.
- Olapade OA.** November, 2003. Response of Stream Bacterial Populations in Biofilms to Dissolved Organic Matter and Inorganic Nutrients. University of Wisconsin-Milwaukee. The Great Lakes WATER Institute and Aquatic Research, Milwaukee, WI.
- Olapade OA.** May, 2003. Influence of dissolved organic matter and inorganic nutrients on biofilm bacterial community on artificial substrates in a Northeastern Ohio stream (USA). Department of Biological Sciences, Kent State University, Kent OH.

GRANTS, AWARDS AND HONORS

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| 2022 | Albion College Merit Award |
| 2022 | A. Merton Chickering Endowed Professorship in Biology |
| 2021 | Albion College Bonus Award |
| 2020 | Carnegie African Diaspora Fellowship Award |
| 2019 | Faculty Development Grant, Albion College: (Large Grant for Sabbatical Support) |
| 2018 | Albion College Merit Award |
| 2016 | Faculty Development Grant, Albion College: Large Grant |
| 2015 | Council for International Exchange Scholars, Fulbright Specialist Roster |
| 2014 | Albion College Merit Award |
| 2014 | Albion College Phi Delta Kappa Faculty Scholar of The Year Award |
| 2013 | Faculty Development Grant, Albion College: Small Grant |
| 2012 | Faculty Development Grant, Albion College: (Large Grant for Sabbatical Support) |
| 2012 | Great Lakes College Association-New Direction Initiative Grant |
| 2011 | Faculty Development Grant, Albion College: (Combined Small & Large Grants) |
| 2010 | Faculty Development Grant, Albion College: (Combined Small & Large Grants) |
| 2009 | Faculty Development Grant, Albion College: Large Grant |
| 2008 | Research Fellowship, American Water Works Association (with <i>Kristi Weage</i> , undergraduate research student) |
| 2008 | Faculty Development Grant, Albion College: (Combined Small & Large Grant) |

- 2007 Faculty Development Grant, Albion College: (Combined Small & Large Grant)
- 2004 Graduate Student Senate Research Award, Kent State University.
- 2004 Kent State University, Department of Biological Sciences Doctoral Dissertation Research Award
- 2003 Graduate Student Senate Research Proposal Grant, Kent State University, 2003
- 1994 Outstanding/best postgraduate student in Microbiology, Obafemi Awolowo University, Ile-Ife, Nigeria
- 1994 Postgraduate Student Award, Obafemi Awolowo University, Ile-Ife, Nigeria.
- 1993 Postgraduate Student Fellowship, Obafemi Awolowo University, Ile-Ife, Nigeria

SERVICE TO ALBION COLLEGE

- 2022 Member of the Search Committee for the Chief Belonging Officer
- 2022- Member of the Mission and Student Success Committee
- 2021- Member of the Faculty Personnel Committee
- 2016 Member of Curriculum and Resource Committee
- 2015- Member of various search committees for faculty positions
- 2014- Member International Studies Committee
- 2014 Faculty Marshall at Commencement
- 2013 Member of Assessment Committee
- 2012 Member of Curriculum and Resource Committee (Sabbatical replacement)
- 2011 Member of Center for Sustainability and the Environments Advisory Committee
- 2009 Member of Science Mode Subcommittee
- 2010 Member of Hearing and Grievance Committee (Fall Sabbatical Replacement)
- 2009 Contributed to a one-day training in Biology for 5th graders from Albion Middle School
- 2007 Member of Judicial Board
- 2007 Member of FURSCA Committee (One-year sabbatical replacement)
- 2008 DASP (Distinguished Albion Scholars Program) Judge
- 2008 Served on 3 thesis committees (Catherine Fontana, Paul Beach & Rasleen Saluja)
- 2007 Soar Faculty Advisor
- 2007 Participant at the Rackham-CRLT Preparing Faculty Seminar
- 2007 Contributed to a one-day training in Biology from Albion Middle School
- 2007 Assisted during the student move-in days at the beginning of the semester
- 2006 Faculty member of the Environmental Institute
- 2006 Served as Career-day representative for Biology Department

MENTORING (LIST BELOW ARE ONLY UNDERGRADUATES AT ALBION COLLEGE)

- 2007: *Catherine Fontana '08*: What is lurking in your Bathroom: The effectiveness of environmentally-friendly cleaners (Elkin Isaac Symposium)
- The development of America's environmental conscience: Actualizing second-hand nature in US Environmental Policy (Honor's Thesis 2008)
- Elizabeth Weage '08*: Temporal Changes in the Abundance and Distribution of Coliform Bacteria Populations in the Kalamazoo River (Elkin Isaac Symposium)
- William Leach '08*: Detection, Quantification and Molecular Characterization of *Bdellovibrio* and Like Organisms in Rice Creek (Elkin Isaac Symposium)
- Sarah Mapes '08*: Incidence and Distribution of Surface-Associated Bacteria on Albion College Campus (Elkin Isaac Symposium)
- 2008: *Elizabeth Weage '08*: Comparisons of antibiotic resistance patterns of bacterial isolates from the Kalamazoo River (Elkin Isaac Symposium & ASM meetings)

- Elizabeth White '08*: The abundance and compositional variations of surface associated bacterial populations in teeth plaque assemblages in response to food consumption (Elkin Isaac Symposium & ASM meetings)
- 2009: *Molly Estill '09*: Associations of livestock farms and Rice Creek's health: A microbiological examination. (Elkin Isaac Symposium & ASM meetings)
Sachi Vyas '09: Spatial and temporal comparison of bacterial community composition in selected adult oral cavities (Elkin Isaac Symposium & ASM meetings)
- 2010: *Kayleigh Pung '11 & Erin Goldman '11*: Phylogenetic composition and diversity of epiphytic microbial communities on native and invasive plant species (both were co-supervised with Prof Lyons-Sobaski and presented during Elkin Isaac Symposium & ASM meetings) *Kayleigh Pung '11*: The source, transport and fate of fecal indicator bacteria in the Kalamazoo river (Honor's in Biology Thesis 2011)
Erin Goldman '11: Comparison of autotrophic and heterotrophic microbial assemblages along nutrient gradient in Rice creek, Jackson and Calhoun Counties, MI (Honor's in Biology Thesis 2011)
- 2011: *Alexander Beach '11*: Microbial abundance and diversity within the human oral cavity in relation to hygiene practices (Honor's in Biology Thesis 2011, BIORAMA and Elkin Isaac Symposium)
- 2012: *Jessica Koehler '13*: Detection of *Escherichia coli*'s beta-glucuronidase gene from environmental samples using combinations of conventional and quantitative PCR approaches (Honor's in Biology Thesis 2011, BIORAMA and Elkin Isaac Symposium)
- 2013: *Jessica Koehler '13*: Utilization of microbiological and molecular approaches for the detection of *Escherichia coli* in environmental and food samples (Elkin Isaac Symposium & BIORAMA)
Adam Ronk '14: Isolation and characterization of soil microbial communities with hydrocarbon potentials (A directed Study Project)
- 2014: *Bradley Baker '14*: Assessment of microbial community dynamics in aquatic and adjacent terrestrial environments: A comparative study along the Kalamazoo River (Honor's in Biology Thesis 2014, Elkin Isaac Symposium & BIORAMA)
Adam Ronk '14: A comparative examination of four high-priority hemorrhagic fever viruses (A directed Study Project)
- 2015: *Brent Heerspink '15*: Biogeochemistry of nitrate transporting seeps along the upper Kalamazoo River, Albion MI (Biology Thesis 2015 co-supervised with Tim Lincoln also presented during Elkin Isaac Symposium & BIORAMA)
Megan Munger '15: Isolation and characterization of soil bacterial populations from different soil types on Albion College Campus (A directed Study Project)
- 2016: *Alyssa Wright '16*: A Review of Porcine Epidemic Diarrhea Virus (Biology Thesis 2015)
- 2017: *Lauren Rasmussen '17*: Determining the optimal metal ion concentration for hydrolytic enzyme activities of microbial communities (Biol/Biochem Thesis 2017)
- 2018: *Julia Difiore '18*: Resistance of *Escherichia coli* and *Bacillus cereus* to simulated conditions of extreme extraterrestrial environments (co-supervised Nicolle Zellner)
- 2019: *Alexis Wilkerson '21*: Comparison among soil types of soil bacterial populations and their hydrolytic enzymatic activities
- 2021-22: *Marshall Woods '23*: Alcohol fermentation process under anaerobic conditions using different substrates and their antimicrobial potentials; *Kabriya Newton '24*: Food contamination process
- 2022: *Samantha Bieth '23*: *Pseudomonas aeruginosa* biofilm development on artificial substrates in soil and detection using microbiological and molecular assays

Others: Also served on various thesis committees (> 15); contributed to and supervised several students' research activities over the years including those of: Mikki Burger '11, Erica Earl '11, Kristi Weage '11, Nicholas Dwan '12, Kwame Sayki '09, Paul Beach '09, Sarah Mapes '08, Rachel Leeds '12, Sandeep Singh '12, Ruhi Ahluwalia '13, Stephanie Carnaghi '13, Anne Marie Galus '14, Nicholas Diamond '15, Thomas Hall '17, Alexandra Rola '17, Kait Whitefoot '18, Victoria Ruprecht '18, Marcin Kazmierczak '18

PROFESSIONAL SERVICES OUTSIDE OF ALBION COLLEGE

2024 Served as external reviewer for tenure candidate at Siena Height University
 2022 Served as external reviewer for tenure candidate at Goucher College
 2019 Served as external reviewer for tenure candidate at Erlham College
 2019 Instructor for Albion Area Lifetime Learners (AALL)- February 2019
 2016 Faculty Facilitator for the Sea-Phage In Situ Workshop at the Howard Hughes Medical Institute, University of Maryland Baltimore County, June 26-July 1, 2016
 2013 Appointed Member of Editorial Board by SpringerPlus, BioMed Research International and Journal of Pollution Effects & Control
 2010 Appointed as University/College Liaison to the American Society for Microbiology, Michigan Branch
 2009- Appointed as External Examiner to the Postgraduate School, Department of Microbiology & Biochemistry, University of Fort Hare, Alice, Republic of South Africa
 2009 Elected as at-large member as well as college and university liaison by the American Society for Microbiology, Michigan Branch
 1999 Served as reviewer for: Canadian Journal of Microbiology, Microbial Ecology, Limnology and Oceanography, Hydrobiologia, Journal of Great Lakes Research, Journal of Applied Microbiology, Aquatic Ecology, The National Science Foundation, FEMS Microbiology Letters, Elsevier, John Wiley, Aquatic Ecology Journal of Molecular Sciences, Applied & Environmental Microbiology, Journal of Antimicrobial Chemotherapy, PlusOne, Journal of Applied Microbiology, Science Domain International, Processes, Applied Microbiology & Biotechnology
 2002 President: Graduate Student Senate, Department of Biological Sciences, Kent State University
 2003 Graduate Student Representative: Ecology Faculty Search Committee, Department of Biological Sciences, Kent State University
 2003: Graduate Student Representative: Program Accreditation Committee, Department of Biological Sciences, Kent State University
 2002 Graduate Student Representative: Ecology Faculty Search Committee, Department of Biological Sciences, Kent State University

PROFESSIONAL MEMBERSHIPS:

American Society for Microbiology (ASM)
 International Society for Microbial Ecology (ISME)
 North American Benthological Society (NABS)
 Ecological Society of America (ESA)
 Nigerian Society for Microbiology (NSM)