

## ABET FACULTY VITAE (2 Page)

**Name:** Mariya Munir

### **Education:**

- Ph.D., Environmental Engineering, Michigan State University, 2014
- M.S., Environmental Engineering, Michigan State University, 2010
- B-Tech, Biotechnology, Integral University, India, 2008

### **Academic Experience:**

- UNC Charlotte, Assistant Professor, July 2016 – Present, Full-Time
- UNC Charlotte, Visiting Assistant Professor, January – June 2016, Full-Time
- Virginia Tech, Postdoctoral Research Associate, 2015, Full-Time
- Michigan State University, Research Assistant, 2008-2014, Full-Time
- Michigan State University, Civil Engineering Teaching Assistant, 2014, Full-Time
- Michigan State University, Instructor, Environmental Measurements Laboratory, 2013, Full-Time

### **Non-Academic Experience:**

- Bioinformatics Center, Biotech Park, Lucknow, India, Research Assistant, 2008, Full-Time

### **Certifications or Professional Registrations:**

- None

### **Current Membership in Professional Organizations:**

- American Society for Microbiology (ASM)
- American Water Works Association (AWWA)
- Water Research Foundation (WRF)

### **Honors and Awards:**

- Outstanding PhD student award (2014/2015) in Environmental Engineering, Civil and Environmental Engineering Department, Michigan State University, MI, based on research, teaching and service accomplishments.
- Outstanding M.S. student Award (2010) in Environmental Engineering, Civil and Environmental Engineering Department, Michigan State University, MI.
- First Place poster presentation award (2014) for presenting a poster at Sixth Annual Graduate Academic Conference (GAC) organized by Council of Graduate Students (COGS), Michigan State University, MI.
- Third Place poster award (2015) for a poster presented at Engineering Research Symposium, Michigan State University, MI.

### **Service Activities (Within and Outside of the Institution):**

- Editorial board member for the journal American Journal of Environmental Protection
- Editorial Board Reviewer for Journal Environmental Science and Pollution Research and Journal Applied Microbiology and Biotechnology
- Reviewer for Journal of Applied Microbiology, Journal of Environmental Quality and

Letters in Applied Microbiology

- Judged research posters at 31st Annual GSA (Graduate Student Assembly) Research Symposium (2015) at Virginia Tech, Blacksburg, VA
- Judged research posters at Interdisciplinary Research Day (Spring 2015), hosted by Virginia Tech's chapter of Iota Delta Rho (IDR), the Interdisciplinary Research Honor Society (admittance to IDR is based on scholastic achievement and research performance), Virginia Tech, Blacksburg, VA.
- Participated at mentoring/teaching/outreach experiences with undergraduate students at Michigan State University, 2014
- Volunteered in Environmental Science Badge Workshop conducted for Boy Scout requirement, East Lansing, MI, spring 2011

**Select Publications and Presentations (Last Five Years):**

1. Munir, M.; Wong K.; Xagorarakis I.; "Release of Antibiotic Resistant Bacteria and Genes in the Effluent and Biosolids of Five Wastewater Utilities in Michigan"; *Water Research* (2011); Vol. 45, pp. 681-693
2. Munir, M.; Xagorarakis I.; "Levels of Antibiotic resistant Genes in Manure, Biosolids, and Fertilized Soil"; *Journal of Environmental Quality* (2011); Vol. 40, pp. 248-255
3. Pin, G.; Munir M.; Xagorarakis I.; "Correlation of tetracycline and sulfonamide antibiotics with corresponding resistance genes and resistant bacteria in a conventional municipal wastewater treatment plant"; *Science of Total Environment* (2012); Vol. 421-422, pp.173-83
4. Munir, M.; O'Brien E.; Marsh T. L.; Xagorarakis I.; (2015). Screening For Potential Viral Pathogens In Wastewater Effluent And Activated Sludge Using Metagenomics Analysis. Engineering Graduate Research Symposium, Michigan State University, MI.
5. McCall C.; Munir, M.; Marsh T. L.; Xagorarakis I.; (2015). Bacteriophage Diversity and Abundance in Activated Sludge and Potential Applications. Engineering Graduate Research Symposium, Michigan State University, MI.
6. Munir, M.; Marsh T. L.; Xagorarakis I.; (2014). Phage Metagenome and antibiotic resistant gene in sludge samples from a Wastewater treatment plant. Sixth Annual Graduate Academic Conference (GAC), Council Of Graduate Students (COGS), Michigan State University, MI (First Place Award).
7. Munir, M.; Marsh T. L.; Xagorarakis I.; (2014). Phage diversity and antibiotic resistant gene in a Wastewater treatment plant. Engineering Graduate Research Symposium, Michigan State University, MI.
8. Munir, M.; Marsh T. L.; Xagorarakis I.; (2014). Phage Metagenome and antibiotic resistant gene in sludge samples from a Wastewater treatment plant. 23rd Triennial Symposium on Advancements in Water & Wastewater. Borchardt Conference, University of Michigan, Ann Arbor, MI.
9. Munir M., Marsh T. L. and Xagorarakis I.; (2013). Phage Metagenomics in Activated Sludge Samples. ESPP Research Symposium: Water for a Sustainable World, East Lansing, MI (PowerPoint).
10. Munir M., Marsh T. L. and Xagorarakis I.; (2013). Role of Bacteriophage in Antibiotic Resistant Gene Development in Wastewater Treatment Plants. 113th General Meeting- American Society for Microbiology, Denver, CO.