Mandar Bokare
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Education

- **University of Maryland Baltimore County** **2016 – Present**
  PhD student in Environmental Engineering
  - **Research Area:** Using passive sampling techniques to link fate and transport of PCBs, PAHs and pesticides urban watersheds to their bioaccumulation in aquatic organisms
  - **Advisor:** Dr. Upal Ghosh
  - **GPA:** 4.0

- **University of Manchester** **2011 – 2012**
  MSc Environment and Sustainable Technology
  - Graduated with Merit standing
  - **Master's dissertation:** "Evaluation of pyrochemical reprocessing technology for reprocessing of Generation IV spent nuclear fuel".

- **National Institute of Technology, Nagpur (India)** **2006 – 2010**
  Bachelor of Technology (BTech) in Chemical Engineering
  - **Grade point average:** 8.4 / 10

Work History

- **University of Maryland Baltimore County** **2016 - Present**
  Graduate Research Assistant
  - **Current research projects**
    - Applying passive sampling techniques in air, water and sediment matrices to understand fate and transport of contaminants such as PCBs, PAHs and pesticides in the Anacostia River in Washington DC
    - Conducting PCB monitoring study in Back River in collaboration with Maryland Department of Environment and Baltimore County
    - Working on inter-laboratory study on standardization of passive sampling techniques for measuring freely dissolved concentrations of organic contaminants in sediment porewater
  - **Responsibilities**
    - Training and mentoring undergraduate research assistants
    - Operation and maintenance of analytical instruments such as GC-MS, GC-ECD and carbon analyzers

- **University of Maryland Baltimore County** **August 2018 - Present**
  ***Teaching Assistant,* Department of Chemical, Biochemical, and Environmental Engineering**
  - **Responsibilities**
    - Guiding undergraduate students in chemical engineering laboratory experiments

- Maintenance of experimental setups

- **National Environmental Engineering Research Institute (NEERI, India) 2013 - 2016**
  Project Research Assistant (Level – III)
  - **Research areas:** Materials for carbon dioxide capture, constructed wetland system for treatment of municipal sewage, development of air pollution emissions inventories, Environmental auditing

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Publications and conference presentations

- **Research publications**
  - Chand, P., Bokare, M. and Pakade, Y.B. **(2017).** *Methyl acrylate modified apple pomace as promising adsorbent for the removal of divalent metal ion from industrial wastewater*. Environ Sci Pollution Res 24:10454-10465
- **Conference presentations**
  - **Bokare, Mandar;** Lombard, Nathalie; Magee, Samuel; Wilson, Timothy; Ghosh, Upal. *Application of passive sampling for quantification of sources and sinks of PCBs and OCPs in the Anacostia River.* Poster, SETAC North America 39th Annual Meeting, Sacramento, CA. Nov 2018
  - **Bokare, Mandar;** Lombard, Nathalie; Magee, Samuel; Ghosh, Upal. *Quantification of the transport of PCBs and OCPs in the Anacostia River*. Poster, Gordon Research Conference (GRC): Environmental Sciences (Water), Holderness, NH. June 2018.
  - **Bokare, Mandar;** Lombard, Nathalie; Magee, Samuel; Ghosh, Upal. *Quantification of the transport of PCBs and OCPs in the Anacostia River*. Poster, Gordon Research Seminar (GRS): Environmental Sciences (Water), Holderness, NH. June 2018.
  - **Bokare, Mandar;** Lombard, Nathalie; Magee, Samuel; Ghosh, Upal. *Quantification of water-air transfer rates for PCBs and OCPs in the Anacostia River using a passive sampling approach.* Platform Presentation at the SETAC Chesapeake Potomac Regional Chapter Annual Spring Meeting, Fredericksburg, VA. April 2018

Honors and Awards

- Honorable Mention, 2019 Student E-Poster Competition, American Association for Advancement of Science (AAAS), Environment and Ecology category
- 1st place in Geosyntec 2019 Sediments Student Paper Competition.
- 2nd place, Best Student Platform Presentation, SETAC Chesapeake Potomac Regional Chapter Annual Spring Meeting, Fredericksburg, VA. April 2018
- UMBC CUERE Department Award, 2017
- UMBC Chemical Engineering Department Award, 2016

Professional Organizations

- Society of Environmental Toxicology and Chemistry (Chesapeake Potomac Regional Chapter). 2018-Present