

Leah Marie K.

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ACADEMIC EXPERIENCE

Texas A&M University, College Station, TX
Graduate Teaching Assistant – Advisor: Dr. Binayak P. Mohanty
Characterization of preferential flow using remote sensing

Ph.D. (Pursuing), BAEN Program
August 2019 – Present; GPA: 3.90

Texas A&M University, College Station, TX
Advisor: Dr. Binayak P. Mohanty

BE, Biological & Agricultural Engineering (BAEN)
August 2015 – May 2019; GPA: 3.25

ACADEMIC ACHIEVEMENTS/ RECOGNITION

- **Grad Merit – BAEN Lump (Spring 2021)**: Biological and Agricultural Engineering, TAMU
- **Kate & Tony Sutherland End Scholarship (Fall 2019 & Spring 2020)**: Biological and Agricultural Engineering, TAMU
- **Travel award to study in Mexico (Spring 2019)**: Biological and Agricultural Engineering, TAMU
- **Ben T & Mattie B Little scholarship fund (Fall 2018 & Spring 2019)**: Biological and Agricultural Engineering, TAMU
- **Clag BAEN DT Scholarship (Fall 2018 & Spring 2019)**: Biological and Agricultural Engineering, TAMU
- **COADC Calvin & Peggy Parnell (Fall 2018 & Spring 2019)**: Biological and Agricultural Engineering, TAMU
- **Alpha Epsilon Member (2017)**: Biological & Agricultural Engineering, TAMU
- **Travel award to study in Leuven, Belgium (Summer 2017)**: AgriLife Extension, TAMU
- **LSAMP scholarship (Spring & Summer 2017)**: LSAMP, TAMU

SERVICES & COMMUNITY ENGAGEMENT

- **President of Organization (2021-Present)**: TAMU Graduate Consulting
- **Team Lead for Pro-Bono Consulting Opportunities (2020-2021)**: TAMU Graduate Consulting
- **Workshops Organized: *Data visualization in R* (2020)**: with WMHS program, TAMU
- **Professional Membership**: American Geophysical Union (member)
- **Volunteer (2015-present)**: Star of Hope Mission in Houston, Texas
- **Volunteer (2015-2019)**: Big Event in College Station, TX

RESEARCH & INDUSTRY EXPERIENCE

- **Graduate Student Researcher (2021 - Present)**: Biological and Agricultural Engineering, TAMU
- **Graduate Teaching Assistant (2019-2021)**: Biological and Agricultural Engineering, TAMU
- **Developed a College Course (2020)**: Biological and Agricultural Engineering, TAMU
- **STEM/Coding, Writing, & Microsoft Suite Tutor (2018-2020)**: Chegg Tutoring Services
- **Environmental Engineer & Scientist Intern (2019)**: Austin Watershed Protection Department
- **Redesigned a Wastewater Treatment System in Ecuador (2019)**: Capstone project, TAMU
- **Graduate Microbiology Lab Technician (2017-2019)**: Microbiology, TAMU
- **Research Study for Antibiotic Resistant Bacteria Along the Maumee River (2017-2018)**: Microbiology, TAMU
- **FEMA Well Water Quality Testing (2017-2018)**: AgriLife Extension Services, TAMU
- **Investigated Various Septic System Models (2017)**: REU Water Quality Research Fellowship, TAMU
- **Designed a Water Well Construction Manual (2015)**: Just4Water, TAMU

PUBLISHED WORK & POSTER PRESENTATIONS

[1] Mukherjee M, Marie L, Liles C, Mustafa N, Bullerjahn G, Gentry TJ, Brooks JP. Elevated Incidences of Antimicrobial Resistance and Multidrug Resistance in the Maumee River (Ohio, USA), a Major Tributary of Lake Erie. *Microorganisms*. 2021 Apr 24;9(5):911.

[2] Marie, L., and Mohanty, B., 2020, December. Analyzing the Influence of Preferential Flow on Hydraulic Properties in Various Land Use and Land Covers Along the Brazos River Basin in Texas. In the AGU Fall Meeting.

TECHNICAL SKILLS

ImageJ, VBA, JMP Pro 15, RStudio, ArcGIS, machine learning, HYRDUS, and SQL

Coding Languages: MATLAB, R