

LEAH MARIE KOCIAN

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ACADEMIA

Texas A&M University • PhD, Biological & Agricultural Engineering (3.9/4.0) **Aug 2019 – Present**

Texas A&M University • Bachelor's, Biological & Agricultural Engineering (3.3/4.0) **Aug 2015 – May 2019**

EXPERIENCE

Texas A&M Graduate Consulting Club (TAMUGC) – Texas A&M University **Fall 2020 – Present**
– **President**

- Built a driven and adaptive leadership team of 6 members to achieve the highest standards for best practices in TAMUGC.
- Developed strategic alliances with clients through networking and sales pitches resulting in increased client retention.
- Increased participation by 34% YOY through improved marketing and public relations strategies.

– **Team Lead**

- Led 5 consultants to assess the attractiveness of market entry for Articulate Labs by reducing entry risks through market research.
- Developed a novel 5 parameter model evaluating the market growth outlooks, licensing procedures, competition, health insurance policies, and pricing strategies for 6 international markets.

Course Lecturer – Texas A&M University **Jan 2019 – Present**

- Taught a Data Visualization and Geospatial Analysis with R course to 50 students.
- Mentored 35 students in engineering capstone projects optimizing traveling itineraries and budgets to enhance travel costs and time.
- Systemized a BL-2 lab for a microbiology class with 13 graduate students to reduce lecture to lab transition time by 10 minutes.

Environmental Engineer & Scientist Intern – The City of Austin **May 2019 – Aug 2019**

- Lead 20+ field campaigns and data analyses for bacteria found within the reaches and lakes in Austin, TX.
- Created a prediction model for the characterization of future bacterial sample collection.
- Developed an assessment report for Austin Watershed Protection Project, which prompted the City of Austin to reprioritize its annual budget.
- Presented my findings to various stakeholders and staff members leading to recognition from the CEO of Austin Watershed Protection.

RESEARCH EXPERIENCE

Environmental Researcher – Biobank Automation Company on BINDS **Aug 2019 – Present**

- Consult bi-weekly to the CEO and legal team communicating the results and analysis of the project through slide-deck presentations.
- Write quarterly reports and maintain a strong relationship with the CEO resulting in the continual funding of the project.
- Reduced data analysis processing time by 20% through automation of a physically-based modeling software to effectively plan 50+ field campaigns in 3 major cities of Texas.
- Improved and automated a parameter optimization model in R resulting in a 5 second reduction in calculation time for 30+ sites worth of data.

Lab Research Assistant – Texas A&M University Microbiology Department **Jul 2017 – May 2019**

- Anticipated researchers' needs by preparing lab samples speeding up publication time by 20%.
- Assessed experiment outputs, efficiently organized results, and implemented data visualization techniques in R to meet the journal's publication standards.

VOLUNTEER

Star of Hope Mission in Houston **Aug 2015 – Present**

- Coordinated holiday gift wrapping events by organizing 20+ volunteers into groups to best utilize their skills.
- Lead volunteers serving lunch and dinner at 2 Star of Hope locations simultaneously.
- Organized the front desk book-keeping records to reduce checkin and checkout time by 50%.

AWARDS & CONFERENCES

- LSAMP \$5,000 scholarship to study abroad in Belgium awarded for research presentation | Top 3 out of 15
- Presented published research at the Texas Branch of American Society for Microbiology
- Invited to teach R Coding course at The Advanced Earth & Space Science (AGU) conference to 20 paying attendees.

PUBLICATIONS

- 1 Elevated Incidences of Antimicrobial Resistance and Multidrug Resistance in the Maumee River (Ohio, USA), a Major Tributary of Lake Erie. *Microorganisms* 2021, 9, 911. <https://doi.org/10.3390/microorganisms9050911> | 2nd Author

MISCELLANEOUS

- **Software & Programming:** R, MATLAB, Python, ArcGIS, LaTeX, ImageJ, Hydrus
- **Languages:** English (native), Spanish (ILR Level 2 – Limited Working Proficiency)
- **Hobbies:** Cryptocurrency investing, NFTs, real estate, stock market investing, reading & pottery