

Elizabeth A. McElrath

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EDUCATION

M.S., Biological Science, 2019, Texas A&M University-Commerce

B.S., Environmental Science, 2017, Texas A&M University-Commerce

TEACHING EXPERIENCE

January 2020-Present; **Adjunct Instructor**, Department of Biological & Environmental Science, Texas A&M University-Commerce

- Teaching lecture and lab courses, grading homework, exams, and papers / reports
- Utilizing Learning Management Systems (LMS), particularly Brightspaces D2L, Pearson's Mastering Biology and Genetics, and McGraw Hill's Connect for online instruction of students
- Supervision of undergraduate and graduate assistants in lecture and lab activities.
- Design and creation of course content materials such as a syllabus, visual aids, exams, answer keys, supplementary notes, and course websites for multiple courses per semester
- Facilitate laboratory and biohazard safety training for undergraduate students and student staff for course preparation and research
- Supervise and teach laboratory students proper laboratory techniques and methods
- Courses of Record include: Biology I (BSC 1406); Biology I lab (BSC 1406L); Genetics lab (BSC 304L)

August 2017-July 2019; **Graduate Teaching Assistant**, Department of Biological & Environmental Science, Texas A&M University-Commerce

- Assisted Faculty member in teaching lab classes, grading homework, exams, and papers or reports
- Assisted faculty with the development of manuscripts suitable for submission to research journals
- Preparation of presentations for regional conferences
- Helped in designing and creating materials such as a syllabus, visual aids, exams, answer keys, supplementary notes, and course websites for multiple courses per semester
- Facilitated laboratory and biohazard safety training for undergraduate students and student staff for course preparation and research
- Supervised and taught laboratory students proper laboratory techniques and methods
- Courses of Record include: Anatomy and Physiology I lab (BSC); Research Methods in Environmental Science lab (ENVS 303L); Zoology lab (BSC 1413L); Botany lab (BSC 1411L); Field Methods in Wildlife and Conservation Lab (BSC 337L)

October 2015 – August 2016; **Environmental Intern**, Cooper Lake, Doctor's Creek Unit/ Department of Biological & Environmental Science, Texas A&M University-Commerce

- Assisted the children's day camp staff with the supervision and handling of 30 – 45 kids visiting the park
- Developed and implemented both active and passive educational lessons for students aged between 5 & 12 years
- Provided assistance with the creation and execution of large scale programs for parents and students attending the park

PUBLICATIONS

McElrath E. & Guo L. (2022) The potential of *Croton lindheimeri* to sequester different metals from different mediums: uptake essential element Fe from soils or sequester toxic metal Sr from solutions, **International Journal of Phytoremediation**, DOI: [10.1080/15226514.2021.2025202](https://doi.org/10.1080/15226514.2021.2025202)

SCHOLARSHIPS AND AWARDS

- First Place. Master's Environmental Science Poster Presentation. Pathways Symposium of Texas A&M University System. 2018. West Texas A&M University. Canyon, Tx. "The Potential of *Croton lindheimeri* to Remediate Iron and Strontium Contaminated Medium."
- A&M-Commerce Supplemental Graduate Assistant Stipend. 2018. Texas A&M University-Commerce, Tx.
- Graduate Teaching Assistantship. Department of Biological and Environmental Sciences. Texas A&M University-Commerce, Tx.

PRESENTATIONS

McElrath, E., (2018) **"The Potential of *Croton lindheimeri* to Remediate Iron and Strontium Contaminated Medium."** Presentation at Pathways Symposium of Texas A&M University System, Canyon, TX.

McElrath, E., (2018) **"Choosing a Plant to Use for Phytoremediation."** Presentation at EcoLions Seminar

Event, Texas A&M University-Commerce, Commerce, TX. McElrath, E., (2018)

"Phytoremediation: Using Green Technology to Remediate Contaminated Sites." Presentation at Brown Bag Seminar, Texas A&M University-Commerce, Commerce, TX.