Morgan A. Jacobellis, M.S. (pending)

SCIENTIST I

CONTACT INFORMATION

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PROFESSIONAL PROFILE

Ms. Morgan Jacobellis is a toxicologist in ToxStrategies' Health Sciences practice. She has assisted in research understanding potential relationships between ultra-processed foods (UPFs) and adverse health outcomes. As part of this research, Ms. Jacobellis has evaluated the current regulatory and scientific landscape for UPFs by developing and performing structured literature searches and reviews across several scientific literature databases and agency websites.

Currently, Ms. Jacobellis is also in the process of earning her M.S. in Environmental Toxicology from Clemson University. Her thesis research investigates the effects of persistent organic pollutant mixtures on metabolic health, particularly in childhood obesity. Ms. Jacobellis has experience evaluating effects of mixtures *in vitro* to elucidate mechanisms of metabolic toxicity. She has performed cell viability assays, transactivation reporter assays for the PPAR nuclear receptor family, as well as Mitochondrial Stress Tests in HepG2 and C2C12 cells.

Ms. Jacobellis also has experience using *in vivo* ecological models to examine the effects of herbicide exposure on invertebrate behavior and regeneration rate, as well as experience using computational tools such as Blast, Phytozome, Cytoscape, PaperBlast, EFI Enzyme Similarity Tool, Muscle, UniPort, and iTol for functional annotations. Additionally, she has used statistical analysis programs such as StatPlus and GraphPad Prism to analyze data sets.

Ms. Jacobellis has presented her research at both regional and national scientific meetings and has reported her results in peer-reviewed journals. She has facilitated lectures and discussions for undergraduate courses in biology and environmental sustainability.

EDUCATION AND DEGREES EARNED

2025, Dec. (Expected)	Master of Science, Environmental Toxicology Clemson University, Clemson, SC
2021	Bachelor of Arts, Sustainability Studies with Departmental Honors (Minors in Health and Wellness and Leadership Development) Stony Brook University, Stony Brook, NY

PROFESSIONAL ASSOCIATIONS

2025–Present	Society of Toxicology

HONORS/AWARDS

2024	Southeastern Society of Toxicology: Second Place Masters Poster Presentation
2023	Southeastern Society of Toxicology: First Place Masters Poster Presentation
2019-2021	Stony Brook University: Dean's List

CERTIFICATIONS

2023–Present	Blood Borne Pathogen Training, Clemson University
2019-Present	Responsible Conduct of Research, The CITI Program (Credential 30435514)
2022-2024	CPR/AED/First Aid, American Red Cross Training Services
2019-2022	Human Research, The CITI Program (Credential 30435513)
2019	Human Participant Research Ethics, Institutional Review Board (IRB)

PUBLICATIONS

Pochron ST, Sasoun S, Maharjan S, Pirzada WU, Byrne S, Girgis M, **Jacobellis MA**, Mitra JA, et al. 2024. Toxicity of a common glyphosate metabolite to the freshwater planarian (*Girardia tigrina*). Sustainability 16(2):842; doi: 10.3390/su16020842.

POSTER PRESENTATIONS

Jacobellis M, Garcia M, Bain L, Pearce J, Hunt K, Baldwin W. Disruption of energy homeostasis by chemical mixtures containing persistent pollutants in HepG2 and C2C12 cells. Abstract 4564, Society of Toxicology 64th Annual Meeting, Orlando, FL, March 2025.

Jacobellis M, Garcia M, Bain L, Pearce J, Hunt K, Baldwin W. Disruption of energy homeostasis by chemical mixtures containing persistent pollutants in HepG2 and C2C12 cells. Southeastern Society of Toxicology, Auburn University, Auburn, AL, 2024.

Jacobellis M, Bain L, Baldwin W. Disruption of energy homeostasis by PFAS mixtures. Southeastern Society of Toxicology, University of Georgia, Athens, GA, 2023.

Jacobellis M, Blaby-Haas C. Selective pressure responsible for pathway evolution of arsenic tolerance in bioenergy algae. Science Undergraduate Laboratory Internship (SULI) Presentations, Brookhaven National Laboratory, Upton, NY, 2021.

Jacobellis M, Khan S, Prizada W, Maharjan S, Sasoun S, Girgis M, Byrne S. AMPA (α-amino-3-hydroxy-5-methyl-4- isoxazolepropionic acid) affects the regeneration rate of the planarian (*Girardia tigrina*). Stony Brook University Undergraduate Research and Creative Activities (URECA), Stony Brook, NY, 2021.

Prizada W, Khan S, Maharjan S, **Jacobellis M**, Sasoun S. Observing planarian regeneration upon exposure to AMPA. Stony Brook University Undergraduate Research and Creative Activities (URECA), Stony Brook, NY, 2021.

Khan S, Prizada W, Maharjan S, **Jacobellis M**, Sasoun S, Girgis M, Byrne S. Effects of a common water contaminant on regeneration and locomotion in a water dwelling invertebrate. Stony Brook University Undergraduate Research and Creative Activities (URECA), Stony Brook, NY, 2020.

Sasoun S, Khan S, Pirzada W, Maharjan S, **Jacobellis M**, Girgis M, Byrne S. The effect of AMPA exposure on eye spot regeneration and swimming speed of fresh water planaria. Stony Brook University Undergraduate Research and Creative Activities (URECA), Stony Brook, NY, 2020.

PANEL PARTICIPATION

2024	Invited Panelist, Clemson University, Professional Development Panel
2024	Invited Panelist, Clemson University, Graduate Teaching Assistant Panel
2023	Invited Panelist, Stony Brook University, Sustainability Studies Alumni Panel
2020	Invited Panelist, Stony Brook University, EarthStock: A Celebration of Earth Day Panel