



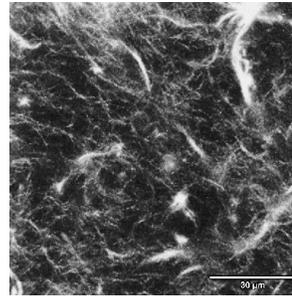
Macias Rodriguez Group

WHAT WE DO

We conduct research in food physical chemistry and material science to unravel the interplay between process and structure and function in foods. We are a growing research lab, currently 4 graduate students, and 4 undergraduate students with diverse backgrounds and expertise in Food Science, Chemistry and Material Science.

OPEN POSITIONS

Project Summary: Foods are soft materials with structures at different lengthscales that control physical properties, texture, amongst other properties/attributes. This project aims to unravel the link between structure of fibrillar particles and their mechanical properties. The student will investigate how microstructure topology affect gel mechanics. Main techniques used will be confocal microscopy, and image analysis using MATLAB, Image J, Python or other software package.



Number of Students Needed: 1

Eligibility Requirements: Image processing experience or strong willingness to learn, commit to a minimum of 6 h/wk for 2 semesters, experience with soft materials, willingness to work on model systems representative of complex foods, and self-initiative.

Compensation: Students who are interested should email <bmaciasr@illinois.edu> by **March 31, 2025**. Make sure to include your resume, list of courses, and skills. Potential candidates will be interviewed by the lead PI and a grad student.