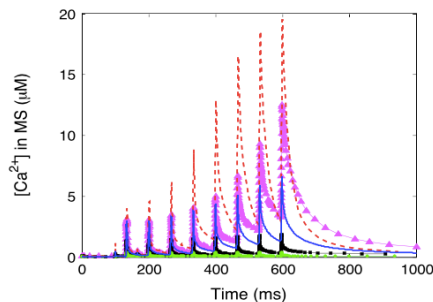


Sarah Olson

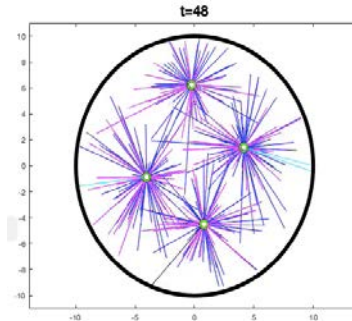


- Associate Professor, Department of Mathematical Sciences
- Research Interests: Computational and Systems Biology, *Modeling Biological Processes*, Developing Computational Methods
 1. Biomechanics and Biofluids -> Modeling and understanding force generation (e.g. skeletal muscle contraction, active structures in fluids)
 2. Biochemistry -> Modeling signaling pathways (e.g. Calcium dynamics)

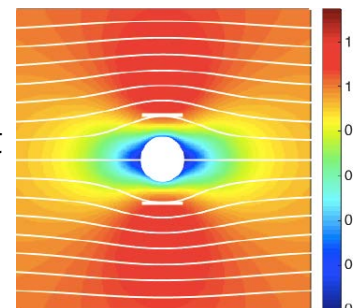
Calcium in Skeletal Muscle



Centrosome movement in dividing cancer cells



Fluid flow



Tissue Engineering Cell growth in scaffolds

