

Dear Faculty, IGERT Fellows, IGERT Associates and Students,

You are cordially invited to attend a Seminar presented by Atena Zahedi.  
Please plan to attend.

# Atena Zahedi

IGERT Fellow

Date: Friday, November 21st, 2014

Location: Bourns A265

Time: 11:00am

## Understanding the Mechanisms of Cell Migration and Morphology

### Abstract:

Cell migration is fundamental to several biological phenomena such as embryonic development, inflammatory response, and cancer metastasis. This vast field of research can benefit from signal processing approaches that target the exploding quantity of imaging data produced with ever-advancing microscopy techniques. This review article provides a brief background on cellular movements, and a range of current efforts on tracking motile cells, with an emphasis on deformable model approaches. The authors discuss key difficulties posed by cellular imaging, discuss advantages and limitations of different tracking techniques, and suggest a few directions for future advancements.

