

## Medical Physics Seminar Monday, November 19th 2018 1345 HSLC ~ 4:00 P.M.





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## The ImageJ Ecosystem: An Open Platform for Biomedical Image Analysis

Technology in modern bioimaging advances rapidly, enabling increasingly affordable, faster, and more precise biomedical visualization, which necessitates correspondingly more-advanced image processing and analysis techniques. A wide range of software is available-from commercial to academic, special-purpose to Swiss army knife, small to large-but a key characteristic of software that is suitable for scientific inquiry is its accessibility. Open-source software is ideal for scientific endeavors because it can be freely inspected, modified, and redistributed; in particular, the open-software platform ImageJ has had a huge impact on the life sciences, and continues to do so. Uses of ImageJ range from data visualization and teaching to advanced image processing and statistical analysis. We will explore what the main functionality of ImageJ, how it impacts the life sciences, how it can be adapted, and how it is self-influenced by coevolving projects within the ImageJ ecosystem.

1345 Health Sciences Learning Center (HSLC) 4:00 - 5:00 P.M.