

Advanced Image Processing and Analysis

ECE 4438B/ECE 9202B/ECE 9022B

BIOMED/BIOPHYS/CAMI 9519B Winter 2018

Instructor

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So far

- Python as a programming language
 - Numerical operations
 - String/list operations
 - Indexing/slicing
 - Writing a simple module (more to come)
 - Scope of variables (more to come)

Assumes

- You have set up the proper software environment:
 - Python (via Anaconda)
 - Jupyter Notebook (via Conda)
 - Git (via Conda)
 - Cloned my Github repository
 - SimpleITK (via setting an environment using my Github code and via Conda)

If not

- Consults PDFs for 1st weeks of lectures available on UWO OWL
 - **ECE 4438B 001 FW18**
- Work through
 - [AIP Day 00 Setup.ipynb](#)
 - [AIP Day 00 python Tutorials.ipynb](#)

This week

- Representation of image/volumes in python/SimpleITK
- More image operations
- Visualization
- Consult
 - [AIP Day 03 SITK ImageClass.ipynb](#)
 - [AIP Day 04 Image Details.ipynb](#)

Moving forward

- Less PowerPoint presentations, and
- More Jupyter Notebooks

Questions/Comments

- Instructor
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- Teaching Assistant
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 - 1hr/week, email for appointment