Syllabus BCB/GNET 730 Spring 2020
Fundamentals of Quantitative Image Analysis for Light Microscopy

Instructors:
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10 meetings - Tuesday & Thursday - 3:30-4:45pm - Marsico Hall 6004

Week 1
- Introduction to digital image processing and preparation of images for analysis
  - January 14 & 16
  - Exercise 1 (due 01/23/2020, Thursday)

Week 2
- Image filtering and ImageJ macro language
  - January 21 & 23
  - Exercise 2 (due 01/30/2019, Thursday)

Week 3
- Building pipelines with Cell Profiler
  - January 28 & 30
  - Exercise 3 (due 02/06/2019, Thursday)

Week 4
- Introduction to tracking and colocalization
  - February 4 & 6
  - Exercise 4 (due 02/13/2019, Tuesday)

Week 5
- Preparing images for publication and student questions
  - February 11 & 13

Grades will be assigned based on four exercises (25% each) corresponding to the material studied in the first four weeks of the course. Discussions between students are encouraged but the assignments should be submitted individually.