

Time// Location: Fridays, 2 pm-5:15 pm // Marshak Science Building Room 926

Instructor: James Booth

Contact: Marshak Room 927, jbooth@ccny.cuny.edu

Office Hours: Mon/Wed 1:50 - 2:20pm, or by appointment

Description: EAS472 is a senior-level capstone research project class taught by different faculty members of EAS each semester. This course is meant to give students an opportunity to do research that resembles the research conducted by Master's and PhD level students. The difference however, is that this course focuses on the data analysis more than the reading of previous research. Actual Master's and PhD research (if done correctly) should involve a lot of reading.

Grading:

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| - Class Attendance & Professionalism | 30% |
| - Progress reports | 30% |
| - Final Presentation | 15% |
| - Final Project | 25% |

Format: During the first 3 classes, I will lead the discussion. First we will discuss project ideas (see below). Then I will give a lecture on coding using Matlab. We will discuss how to propose a topic. After week 3, the students will lead the discussion, by presenting their research plans and/or results

Project Ideas: There are a few options for choosing a project:

- 1) If you already have a research project with CCNY faculty, you can continue it.
- 2) If you have an idea for a project (perhaps a continuation from another class), you can do that work. But only if the project is of the right scale for this course and it has to be the case that I can help advise you on the topic.
- 3) I will provide options for research projects.

Course Outcomes:

- Understand the scientific method and be able to apply it.
- Analyze and synthesize a research question.
- Develop intermediate skills in scientific writing.
- Develop a basic level of scientific computer programming skill.

Important Dates:

- Progress Reports - Throughout the semester
- Final Presentation - Friday, Dec 21, 3:30 pm
- Final Project Due - Tuesday, Dec 18, 2018