

Network Science Module Info

Spring 2024

People

Dr. Sarah Ferguson Briggs, *module leader*
s.ferguson-briggs18@imperial.ac.uk

Antonio Matas Gil, *Senior GTA*
Other GTAs, TBC

Structure

This module consists of 18 lectures, 5 problem classes and 4 computer labs. Problem classes will be spread out in three rooms (Huxley 340/341/342), where one room will involve a mix of lecturing, group work and discussion, and the other two rooms for independent work (individually or in groups) with GTAs available to answer questions. Jupyter notebook problems will be worked on in the Computer Labs, with the module leader and GTAs available for questions/discussion. Problem sheets will be posted weekly, and solutions posted roughly a week later.

Assessment (dates are tentative)

Project 1 (10%): Released 2/2, due 9/2
Midterm (10%): Thursday 22/2
Project 2 (10%): Released 13/3, due 20/3
Final Exam (70%): Sometime in May

Office hours

An “online office hour” will be held every Tuesday 1-2 by the module leader.

Ed discussion board

The module discussion board can be found here:
This is where questions should be asked and answered (by students/GTAs/module leader) on the module. If you are not already enrolled, please email the module leader.

Reading

We will use Network Science by Barabasi which is freely available online:
<http://networksciencebook.com>. Reading Chapter 2 is a requirement, otherwise it will be primarily used as a secondary, supplementary resource.

Schedule:

Hours:

Tuesdays 15:00

Thursdays 9:00

Fridays 17:00

Week 1: 8/1 – 12/1

Reading: Barabasi Chapter 1&2

Tuesday 9/1: Lecture 1

Thursday 11/1: Lecture 2

Friday 12/1: Lab 1

Week 2: 15/1 – 19/1

Tuesday 16/1: Lecture 3

Thursday 18/1: Lecture 4

Friday 19/1: Problem Class 1

Week 3: 22/1 – 26/1

Tuesday 23/1: Lab 2

Thursday 25/1: Lecture 5

Friday 26/1: Lab 3

Week 4: 29/1 – 2/2

Tuesday 30/1: Lab 4

Thursday 1/2: Lecture 6

Friday 2/2: Project 1 released.

Friday 2/2: Problem Class 2

Week 5: 5/2 – 9/2

Tuesday 6/2: Lecture 7

Thursday 8/2: Lecture 8

Friday 9/2: Project 1 due.

Week 6: 12/2 – 16/2

Tuesday 13/2: Lecture 9

Thursday 15/2: Lecture 10

Friday 16/2: Problem Class 3

Week 7: 19/2 – 23/2

Midterm 22/2

Week 8: 26/2 – 1/3

Tuesday 27/2: Lecture 11

Thursday 29/2: Lecture 12

Friday 1/3: Problem Class 4

Week 9: 4/3 – 8/3

Tuesday 5/3: Lecture 13

Thursday 7/3: Lecture 14

Week 10: 11/3 – 15/3

Tuesday 12/3: Lecture 15

Wednesday 13/3: Project 2 released.

Thursday 14/3: Lecture 16

Friday 15/3: Problem Class 5

Week 11: 18/3 – 21/3

Tuesday 19/3: Lecture 17

Wednesday 20/3: Project 2 due.

Thursday 21/3: Lecture 18

Note: All lectures are in Clore, all Computer Labs are in Huxley 414 - Math Learning Centre, and all problem classes in Huxley 340/341/342.