

Ugo Bolletta (D-101)

[ugo.bolletta@universite-paris-saclay.fr](mailto:ugo.bolletta@universite-paris-saclay.fr)

<https://ugobollettaresearch.com>

**Course description:** The course is structured in 7 chapters that will be discussed during each of the 7 meetings. The second part of the course is taken care of by Margherita Comola, so her material is not included here.

Lectures are scheduled as follows:

- **Part 1** (Sep. 20<sup>th</sup> 11-13 B.303): Definitions and characteristics of networks
- **Part 2** (Sep. 27<sup>th</sup> 11-13 B.303): Centrality and diffusion
- **Part 3** (Oct. 4<sup>st</sup> 11-13 B.303): Random network formation models
- **Part 4** (Oct. 11<sup>th</sup> 11-13 B.303): Strategic network formation models
- **Part 5** (Oct. 18<sup>th</sup> 11-13 B.303): Games on networks
- **Part 6** (Oct. 25<sup>th</sup> 11-13 B.303): Games on networks II
- **Part 7** (Nov. 8<sup>th</sup> 11-13 B.303): Learning

**Teaching material:**

The material of the class will be regularly updated on the following URL: <https://ugobollettaresearch.com/cv/teaching/>

The lectures are based on Matthew O. Jackson's textbook *Social and economic networks*, Princeton university press, 2010.

We will also go through several research papers.