



CentraleSupélec

Statistics and Learning

Lecturers (alphabetic order):

Julien Bect, Gilles Faÿ, Ziad Kobeissi, Laurent Le Brusquet,
Vincent Lescarret, Arshak Minasyan, Arthur Tenenhaus[†] & Xujia Zhu

[†] Course coordinator

General organization

- ▶ 9 lectures (1h30 each)
- ▶ 10 practical classes (PC), aka TD (1h30 each)

General planning

- ▶ 5 lectures + 5 PC on “statistical inference”,
- ▶ 4 lectures + 5 PC/lab on “statistical learning”,
- ▶ 1 final exam (3h).

General organization (cont'd)

Ressources

- ▶ Slides available on gitlab:

<https://gitlab-research.centralesupelec.fr/statml/2025/slides>

- ▶ Yellow slides: “standard exercises”
(to be solved ideally before the corresponding PC session.),
- ▶ Blue slides: “reminders & complements”
(the complements are not to be known by heart).

- ▶ Resources available on Edunao:

<https://centralesupelec.edunao.com/course/view.php?id=9675>

- ▶ answers for PCs, available after the session,
- ▶ Past exams with solutions
- ▶ data, Python notebooks, etc.
- ▶ lecture notes written by Paul-Henry Cournède*

* Former course coordinator

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Exam

- ▶ One final exam, 3h, which covers both parts of the course (mathematical statistics and statistical learning). A double-sided **handwritten** A4 sheet is allowed for the exam
- ▶ Some questions of the final exam will also be used to assess the C1 competency: “Analyze, design, and implement complex systems with scientific, technological, human, and economic components”.

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