

Course Schedule

Week	Dates	MONDAY	FRIDAY
		Room: CM 1 5 Time: 9h15 -11h 00	Room: CM 1 1 Time: 16h15 - 19h00
1	9 - 13 September	1 (Introduction)	2 (Parametric models / Handout 1 [not graded])
2	16 - 20 September	Holiday (NO CLASS)	3 (Basics of convex optimization)
3	23 - 27 September	4 (Gradient descent / Handout 2 [not graded])	5 (Acceleration and Adaptive Gradient Descent)
4	30 September - 4 October	6 (Non-smooth optimization)	Homework 1 is released
5	7 -11 October	7 (Proximal methods)	Q&A with TAs
6	14 - 18 October	8 (Time-data Trade-offs, Variance Reduction)	Q&A with TAs
7	21 -25 October	Holiday (NO CLASS)	Holiday (NO CLASS)
8	28 October - 1 November	9 (Double Descent, Overparametrization)	Homework 1 is due
9	4 - 8 November	10 (Non-convex structure, Adaptive Methods)	Supplementary Lecture: Deep Learning
10	11 - 15 November	11 (Adversarial Learning, GANs)	Homework 2 is released
11	18 - 22 November	12 (Robustness and Diffusion)	Q&A with TAs
12	25 - 29 November	13 (Primal-Dual methods)	Homework 2 is due
13	2 - 6 December	14 (Semi-definite programs)	Homework 3 is released
14	9 - 13 December	Mock Exam	Q&A with TAs
15	16 - 20 December	15 (Large Language Models)	Homework 3 is due/ Mock Exam Q&A