

Deep Learning

Spring 2026

Prof. Gilles Louppe
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Us

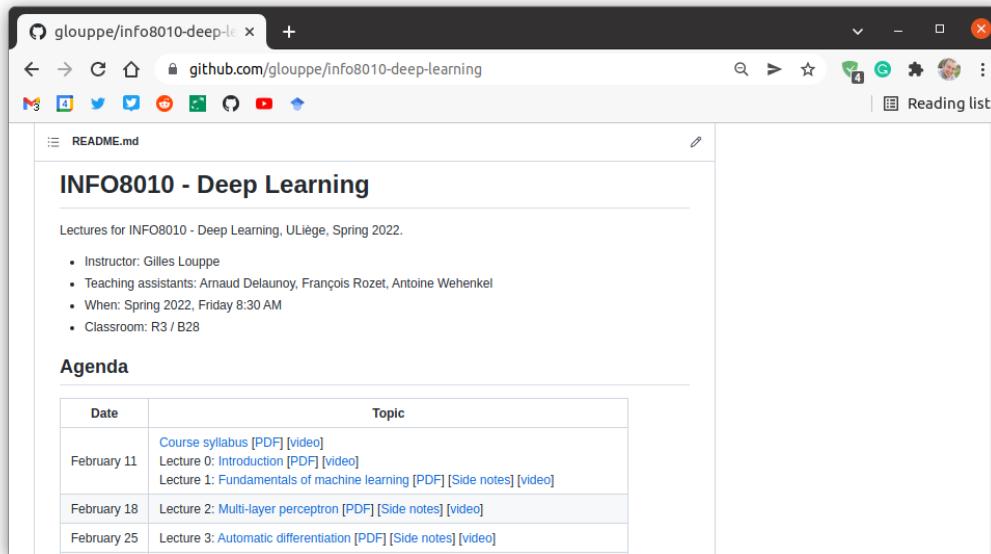
- Instructor: Gilles Louppe (g.louppe@uliege.be)
- Projects and guidance:
 - Fanny Bodart
 - Elise Faulx
 - Julien Brandoit
 - Sacha Peters



Course hub

All important information about the course is maintained on the course hub at github.com/glouppe/info8010-deep-learning:

- Schedule
- Slides and materials
- Homeworks and project



The screenshot shows a web browser window with the URL github.com/glouppe/info8010-deep-learning. The page displays the contents of the `README.md` file. The content includes:

INFO8010 - Deep Learning

Lectures for INFO8010 - Deep Learning, ULiège, Spring 2022.

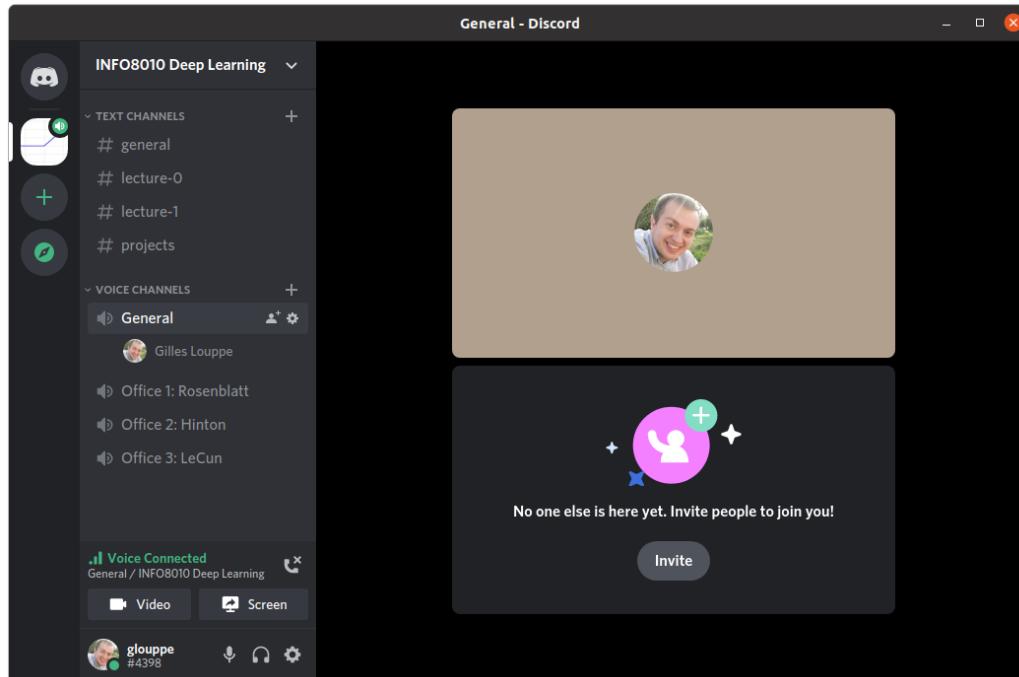
- Instructor: Gilles Louppe
- Teaching assistants: Arnaud Delaunoy, François Rozet, Antoine Wehenkel
- When: Spring 2022, Friday 8:30 AM
- Classroom: R3 / B28

Agenda

| Date | Topic |
|-------------|--|
| February 11 | Course syllabus [PDF] [video] Lecture 0: Introduction [PDF] [video] Lecture 1: Fundamentals of machine learning [PDF] [Side notes] [video] |
| February 18 | Lecture 2: Multi-layer perceptron [PDF] [Side notes] [video] |
| February 25 | Lecture 3: Automatic differentiation [PDF] [Side notes] [video] |

Discord

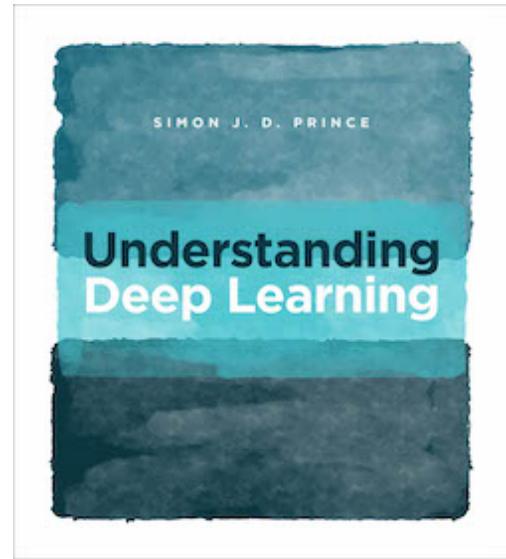
We have a Discord server for the course at <https://discord.gg/5yZqTZhXFW>. Ask questions, share resources, and chat with your peers and the teaching team.



Textbook

We recommend *Understanding Deep Learning*, by Simon J.D. Prince, for a comprehensive introduction to the field.

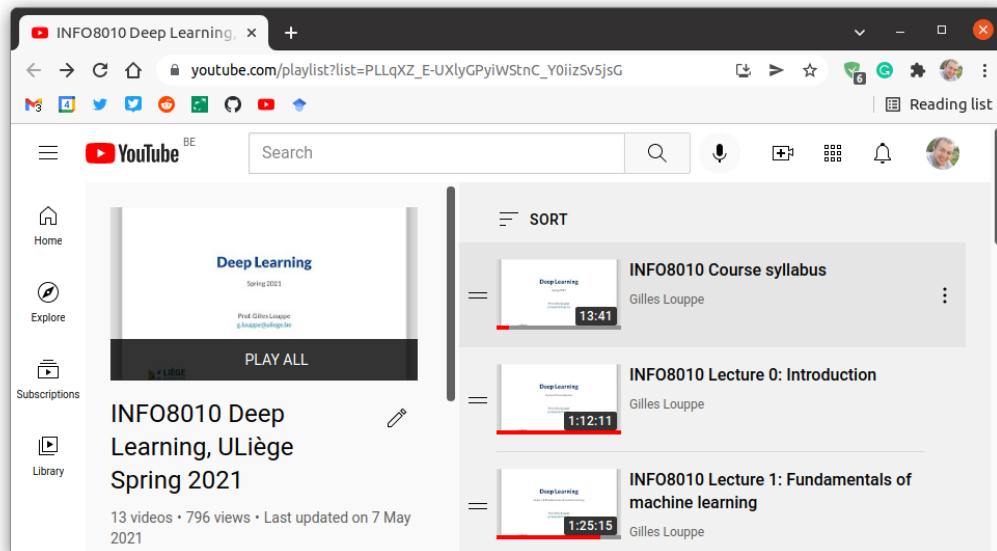
The book is freely available at <https://udlbook.github.io/udlbook/>.



Videos

Videos from Spring 2025 are available [myUnicast](#).

Videos from Spring 2021 are available at [Youtube](#), but they are not up-to-date with the current materials.



Projects

Homeworks

Short exercises to get you started with the practicals of deep learning.

Project

Programming project of your choosing to apply deep learning to a problem of your interest.

Evaluation

- Oral exam (50%)
- Projects (50%)
 - Homeworks (10%) (optional)
 - Programming project (40% or 50%)

The programming project is **mandatory** for presenting the exam.

