Advanced Machine Learning

Course syllabus, Spring 2020

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LIÈGE université

To know, read; to learn, write; to master, teach.

(Hindu proverb)

Logistics

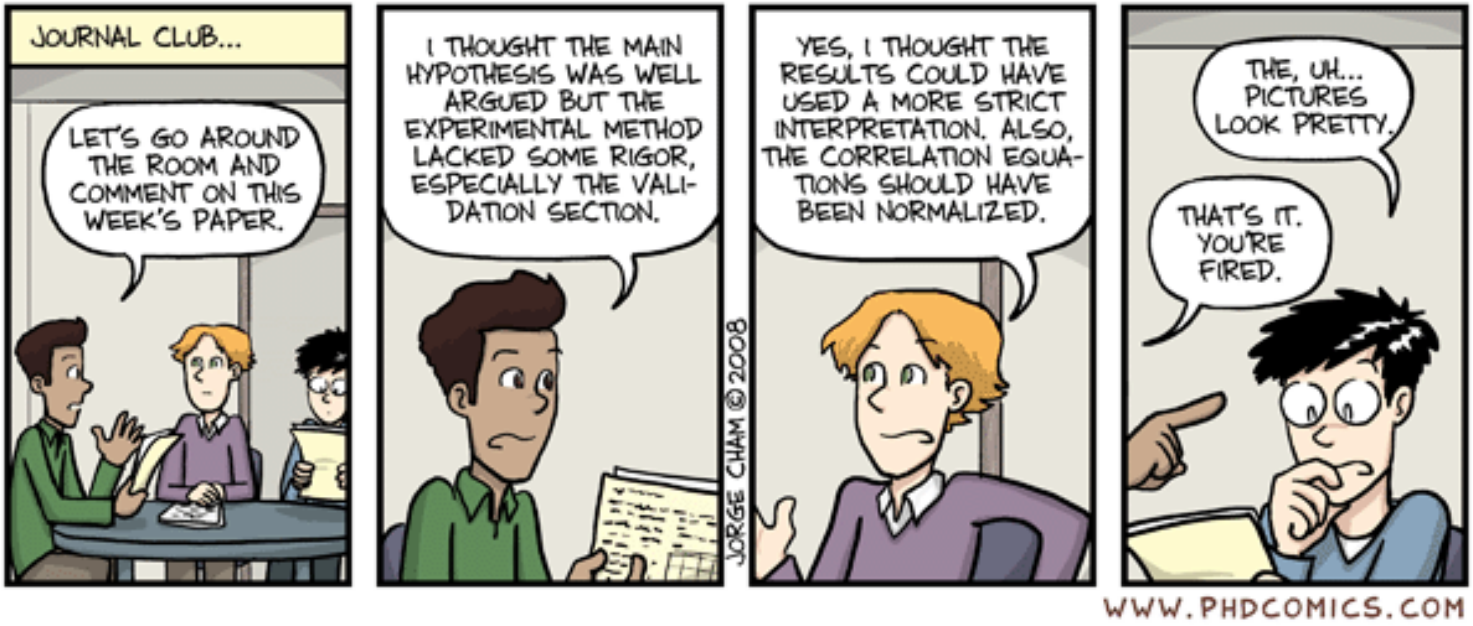
This course is given by:

- Prof. Gilles Louppe (g.louppe@uliege.be)
- Prof. Louis Wehenkel (l.wehenkel@uliege.be)
- (Prof. Pierre Geurts (p.geurts@uliege.be))
- Researchers from the department
- ... and you!



Lectures

- This course is organized as a journal club.
- Reading and presentation of recent machine learning research papers.
- Every week, one of us will:
  - select a research paper,
  - introduce the necessary background,
  - present the paper,
  - discuss and criticize its content.
  - selected people will challenge the paper.
- Goal: training for research and development in machine learning.



Read the papers!

Credits: Jorge Cham, PHD Comics.

Seminars

A couple of lectures will be organized as seminars:

- either with invited speakers
- or with recorded talks, followed by a discussion.

Materials

Papers and slides are available at github.com/glouppe/info8004-advanced-machine-learning.

- Slides posted online the day before the lesson (hopefully).
- Papers announced ~1 week before the lectures.

Agenda

See the course web page (tentative and subject to change).

Reading and presentation assignment

- Read a selected machine learning paper.
- Prepare a 30-minute lecture, covering the necessary background and discussing the paper.
- Short summary report.

More details to be announced later.

Evaluation

- Exam (60%)
- Reading and presentation assignment (40%)

Let's start!