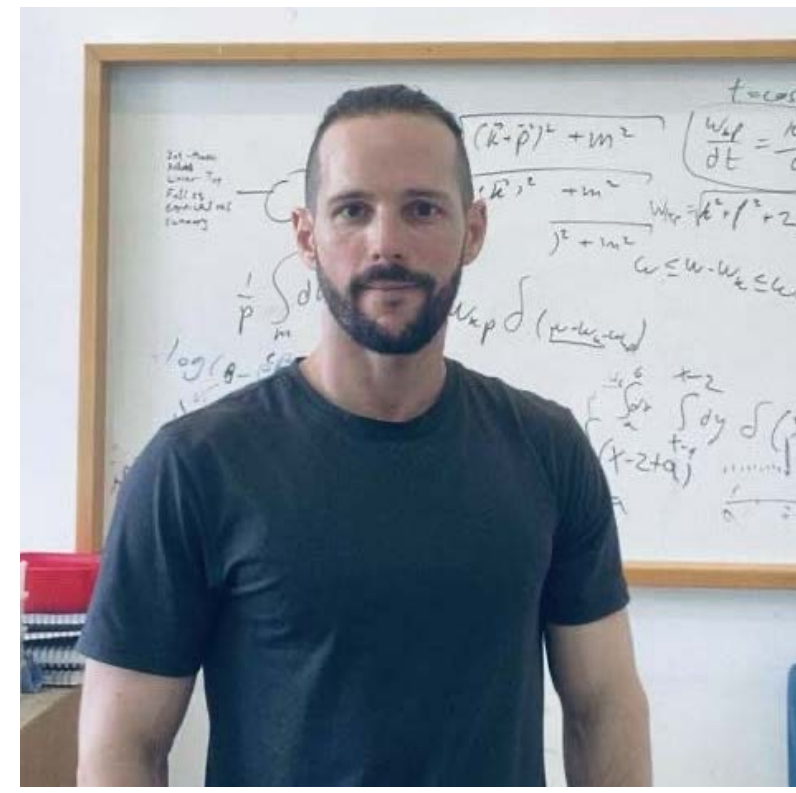


# Lecture series on scientific machine learning

## PHYS-754

Teaching assistant:  
**Noam Levi**

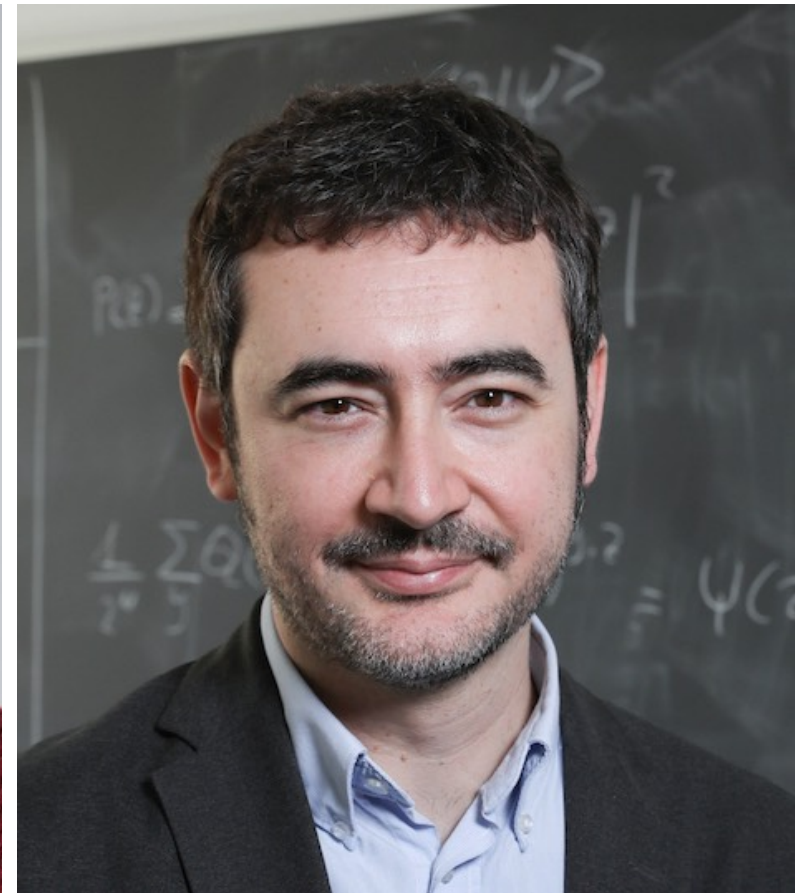


### Lectures:

**Lenka Zdeborová**



**Giuseppe Carleo**



**Philippe Schwaller**



**Alexander Mathis**



**Michele Ceriotti**



**Anne-Florence Bitbol**



**David Harvey**





# Organization

- Lectures (Th 10:15am-12pm, CHB331).
- Format: 7 lecturers, each professor gives a lecture and a list of 2-4 related papers, couple of weeks later a flipped lecture where students present and discuss (a subset of) the papers.
- Lectures will be recorded and posted on mediaspace (link on Moodle) but not streamed.
- All key updates at [Moodle](#), join at: <https://moodle.epfl.ch/course/view.php?id=16820>

# How will you be evaluated?

- Grades will be pass/fail.
- In order to pass you need to:
  - a) Present one of the papers. {xls spread sheet to give preferences for sessions in which you want to present [to be filled by September 16th](#). Link on Moodle.}
  - b) Participate in the lectures and discussions. {If in-person attendance drops we may require from all to submit a question well related to each lecture via Moodle.}



# What is this lecture about?

- Scientific machine learning = AI4Science = application of AI/ML to science.
- This lecture introduces you to (a small subset of the) advances in scientific machine learning coming from EPFL professors and their groups.

**Lenka Zdeborová – Statistical Physics of Computation**

**Michele Ceriotti – Computational Systems and Modelling**

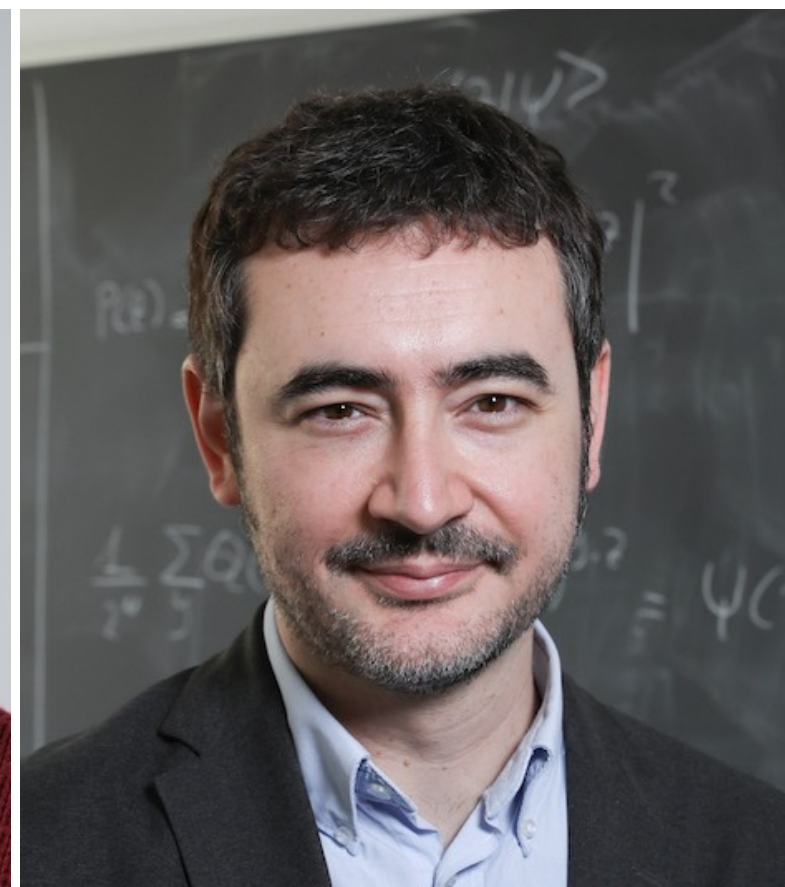
**Giuseppe Carleo – Computational Quantum Science**

**Anne-Florence Bitbol – Laboratory of Computational Biology and Theoretical Biophysics**

**Philippe Schwaller – Artificial Chemical Intelligence**

**David Harvey – Laboratory of Astrophysics**

**Alexander Mathis – Computational Neuroscience and AI**



# Questions about organisation?

