- Faculté des sciences
- www.unine.ch/sciences

**Seminar Advanced Topics in Learning, Privacy and Fairness (3IN2069)**

| Filières concernées | Nombre d'heures | Validation | Crédits ECTS |
|---|---|---|---|
| **Master en informatique** | **Cours: 2 ph** | **Voir ci-dessous** | 5 |

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

**Période d'enseignement:**

- Semestre Automne

**Contenu**

This seminar will look at recent research in the area of fairness in machine learning, privacy and reproducibility. In particular, it will consider the following topics:

1. Differential privacy and related notions

2. Algorithmic fairness, and definitions of fairness.

3. Algorithmic robustness and reproducibiltiy in research.

Prerequisites: It is recommended to take this seminar in parallel with the course on fairness and privacy in AI.

Assessment: Paper presentation and reviewing. A list of papers will be posted on an online reviewing platform. Students will bid on papers to indicate their preferences. Each student will present between 1-3 papers, for a total of 8-10 papers over the course.

**Forme de l'évaluation**

Presentation and reviewing are graded.

**Pré-requis**

Basic probability, calculus and programming. It is recommended to take the lecture course 'Fairness and Privacy in Machine Learning' in parallel, or in the previous year:

**Forme de l'enseignement**

Paper readings and presentations.