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➤ Crash course on data science

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UMR 518 Mathématiques et Informatique Appliquées - PS, INRAE, U. Paris-Saclay

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➤ Objectives of this class

- Give you an idea of what happens “under the hood” of a PC
- Good practices for organizing your data and code
- Improve speed, replicability of experiments
- Caveats
 - Strong focus on Python, advice might not generalize well
 - Practical advice, theory might not be 100% accurate
 - Mostly taken from my own experience, might not be *best*
 - Pacing might be an issue; too many topics, not enough

➤ Subjects

- A quick glance at computer science
- Version control with git
- Good practices of coding (in Python)
- Machine learning

➤ Who am I?

- Career
 - Bachelor and Master in Computer Science Engineering
 - Ph.D. from Politecnico di Torino, Italy, in 2011
 - Permanent researcher in France since late 2012 (INRAE)
 - Senior researcher (DR2) since 2023
- Research interests
 - Stochastic optimization
 - Machine learning (Explainable AI)
 - Applied to biological/agri-food data



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➤ Questions?

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