

# Victor Léger, PhD student

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🌐 <https://victorleger.github.io/>

## Education

- 2021 – 2024 **University Grenoble Alpes.**  
Ph.D. in Random Matrix Theory applied to Machine Learning.
- 2017 – 2021 **Ecole Normale Supérieure Paris-Saclay** in Mathematics Department.  
Master degree : *Master MVA – Mathematics, Vision and Learning.*  
*Agrégation de mathématiques* (French examination for higher education).
- 2015 – 2017 **Lycée Saint-Louis**  
Preparatory Class (to Engineering Schools).

## Research Publications

### Journal Articles

- 1 **V. Leger** and R. Couillet, “A large dimensional analysis of multi-task semi-supervised learning,” 2024. arXiv: 2402.13646 [stat.ML].

### Conference Proceedings

- 1 **V. Leger** and R. Couillet, “Asymptotic bayes risk of semi-supervised learning with uncertain labeling,” 2024. arXiv: 2403.17767 [stat.ML].
- 2 **V. Leger** and R. Couillet, “Apprentissage semi-supervisé avec données partiellement étiquetées,” in *GRETSI 2023 - XXIXème Colloque Francophone de Traitement du Signal et des Images*, GRETSI - Groupe de Recherche en Traitement du Signal et des Images, Grenoble, France, Aug. 2023. [🔗 URL: https://hal.science/hal-04470156.](https://hal.science/hal-04470156)
- 3 **V. Leger**, M. Tiomoko, and R. Couillet, “Classification multi-tâches semi-supervisée en grande dimension,” in *GRETSI 2022 - XXVIIIème Colloque Francophone de Traitement du Signal et des Images*, GRETSI - Groupe de Recherche en Traitement du Signal et des Images, Nancy, France, Sep. 2022. [🔗 URL: https://hal.science/hal-04470185.](https://hal.science/hal-04470185)

## Teaching

- 2021 – 2024 **Introduction to Artificial Intelligence (UGA)**, Teaching assistant.  
Introduction to basic concepts of machine learning: datasets, data processing, classifiers, training, performance evaluation.
- 2021 – 2022 **System and Programmation Environment (UGA)**, Teaching assistant.  
Introduction Unix system, bash programming and C language.
- 2022 – 2024 **Statistics and Probabilities (UGA)**, Teaching assistant.  
Basics of probabilities, standard probability laws, descriptive statistics, estimation, hypothesis testing.

## Skills

- Languages **English (C1), French (C2).**
- Coding **Python, R, C++,  $\LaTeX$**