

Nicolas Keriven

CNRS Researcher

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Education / Positions

- 2019 - **CNRS Researcher**, IRISA, Rennes, Previously at Gipsa-Lab, Grenoble, france..
- 2017 - 19 **Postdoc**, *École Normale Supérieure*, Paris, CFM-ENS "Laplace" chair in Data Science, with Gabriel Peyré.
- 2014 - 17 **PhD Student**, IRISA, Rennes, *Sketching for Large-Scale Learning of Mixture Models*, with Rémi Gribonval.
- 2014 **M.S. in Applied Mathematics**, *Ecole Normale Supérieure*, Cachan, *Mathématiques, Vision, Apprentissage*.
- 2014 **M.S. in Applied Mathematics**, *Télécom Paristech*, Paris.
- 2013 **B.S.**, *Ecole polytechnique*, Palaiseau.
Majors: Applied Mathematics, Computer Science. *Rank 70/500*
- 2008 - 10 **"Classes préparatoires"**, *Lycée Henri IV*, Paris.

Grants and Awards

- 2023 **PEPR IA SHARP (local coordinator)**: Sharp Theoretical and Algorithmic Principles for frugal Machine Learning (500k€ local, 7M total).
- 2021 **ANR JCJC GRandMa (PI)**: Random Graphs in Machine Learning (200k€)
- 2022 **SIAM Early Career Prize of the Activity Group in Imaging Science**. Awarded to Nicolas Keriven for "novel and deep work in signal processing, imaging, optimization, learning and data science".
- 2017 **Best Student Paper award** SPARS 2017, Lisbon. For the paper *Random moments for sketched mixture learning*.

Other activities

- 2022 Conference: **Machine Learning and Signal Processing on Graphs**. Co-organizer, CIRM, Marseille.
- 2022 Workshop: **Recent advances in Graph Machine Learning**. Co-organizer, Paris.
- 2020 - 2022 **GAIA seminars**. Co-organizer, Grenoble.
- 2019 Summer school: **Sparsity4PSL**. Co-organizer, Paris.
- 2017 - 19 **Laplace seminars**. Organizer, Paris.
- 2015 **Journée Science et Musique**. Co-organizer, Rennes.
- Reviewer**: NeurIPS, ICML, ICLR, AISTATS, ICASSP, LoG, JMLR, TMLR, Bernoulli, Annals of Statistics, Constructive Approximation, EJS, IEEE TIT, IEEE TSP, IEEE TNNLS.

Teaching

- 2023 **Signal Processing and sparsity**, INSA, Rennes.
- 2023 **Signal Processing**, ENS, Rennes.
- 2021 - 2023 **Machine Learning**, ENSTA Paris, IPP.
- 2016 - 2017 **Statistics and Econometrics**, Faculté des Sciences Économiques, Rennes.

Students

– *PhD. students*

- 2023 - **Antonin Joly**, with Aline Roumy.
- 2022 - **Martin Gjorgevski**, with Simon Barthelmé and Yohann de Castro.
- 2021 - **Matthieu Cordonnier**, with Samuel Vaiteir and Nicolas Tremblay.
- 2020 - 2023 **Hashem Ghanem**, with Samuel Vaiteir and Joseph Salmon.

– *Master 2 internships*

- 2023 - **Antonin Joly**.
- 2022 **Martin Gjorgevski**, with Simon Barthelmé and Yohann de Castro.
- 2022 **Marc Thevenneau**.
- 2021 **Yannick Malot**.
- 2020 **Hashem Ghanem**, with Nicolas Tremblay.