Nicolas Jouvin

Post-doctorate researcher

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Born on November 7, 1993

Current position

2021-... **Postdoc in statistics**, Ecole Centrale Lyon - Institut Camille Jordan.
Sparse estimation of mixture models Supervised by Yohann De Castro (EC Lyon).

Education

2017 - 2020 **PhD in applied statistics**, SAMM - Institut Curie.
High-dimensional data and graph clustering with discrete latent variable models. Supervisors: Pierre Latouche (MAP5), Charles Bouveyron (J.A. Dieudonné) & Alain Livartowski (Institut Curie).

2016 – 2017 **Master in Mathematics, Computer Vision and Machine Learning**, ENS Cachan.

2015 - 2016 **Master in Applied Mathematics**, Université Paris I Panthéon-Sorbonne.

2012 – 2015 **Bachelor in Applied Mathematics**, Université Paris I Panthéon-Sorbonne.

Research experience

Publications and preprints

December 2020 A Bayesian Fisher-EM algorithm for discriminative Gaussian subspace clustering, *preprint (submitted to journal)* `https://hal.archives-ouvertes.fr/hal-03047930/`

February 2020 Hierarchical clustering with discrete latent variable models and the integrated classification likelihood, *preprint (submitted to journal)* `https://hal.archives-ouvertes.fr/hal-02530705`

August 2019 Greedy clustering of count data through a mixture of multinomial PCA, *published in Computational Statistics* `https://link.springer.com/article/10.1007/s00180-020-01008-9`

Talks and scientific communications

January 2021 **MSI-DHlab seminar**, *Clustering high-dimensional count data through a mixture of multinomial PCA* , Center of Modeling, Simulation, and Interactions, Nice, France.

June 2019 **SAMM laboratory PhD seminar**, *Clustering anatomopathological reports with a mixture of multinomial PCA*, Université Paris 1 Panthéon-Sorbonne, Paris, France.

June 2019 **51e Journée de Statistiques**, *Mixture of multinomial PCA*, Université de Lorraine, Nancy, France.

January 2019 **The mathematics of imaging - CIRM winter school**, *Mixture of multinomial PCA: towards a joint analysis of histopathological texts and images*, Centre international de recherche en mathématiques, Marseille, France..

November 2018 **Welcome day for PhD students**, Fondation Science Mathématiques de Paris, Paris, France.

Research internships

April-Sept. 2017	**Hierarchical clustering in discrete finite mixture models**, MAP5, supervised by Pr. Pierre Latouche (MAP5) & Pr. Charles Bouveyron (MAP5).
June-July 2016	**Comprehensible models for regression and classification**, LAL - CDS, supervised by Pr. Balazs Kegl.

Teachings

2017– 2020	**Teaching assistant**, 1st, 3rd and 4th year of undergraduate, Université Paris 1.
	○ 30h/y, L1 MIASHS, Calculus
	○ 24h/y, M1 MAEF, Introduction to data analysis (statistics, supervised and unsupervised learning, visualisation, programming with R)
	○ 24h/y, L3 MIASHS, scientific computing with Python (Numpy, Pandas, scikit-learn).
2015 - 2017	**Tutoring**, Université Paris 1, Mathematics for the first year of undergraduate studies.

Skills

Languages	French (native), English (fluent)
Computer skills	○ *Coding:* R, Python, Matlab (notions)
	○ LaTeX, Git, Mardown

Hobbies

Sports	Climbing, Hiking
Literature	Philosophy, Science-fiction