

Mohamed NDAOUD

Associate Professor

mohamed.ndaoud@essec.edu

Department: Information Systems, Data Analytics
and Operations
Campus de Cergy

DIPLOMAS

DIPLOMAS

- | | |
|------|--|
| 2019 | Doctorate in Mathematical Statistics
(Université Paris-Saclay France) |
| 2016 | Master of Science, Finance
(Université Pierre et Marie Curie (UPMC) France) |
| 2015 | Master of Engineering, Mathematics
(École Polytechnique France) |

CAREER

FULL-TIME ACADEMIC APPOINTMENTS

- | | |
|-------------------|--|
| 2021 - 2024-08-31 | Assistant Professor (ESSEC Business School France) |
| 2024 - Now | Associate Professor (ESSEC Business School France) |

OTHER APPOINTMENTS

- | | |
|-------------------|--|
| 2021 - 2027-05-31 | Chaired Professor « Data Science »(ESSEC Business School France) |
|-------------------|--|

PUBLICATIONS

PRESENTATIONS AT AN ACADEMIC OR PROFESSIONAL CONFERENCE

[NDAOUD, M. \(2025\). On some recent advances in high dimensional binary sub-Gaussian mixture models. Dans: 2025 Heidelberg-Paris Workshop on Mathematical Statistics. Heidelberg.](#)

[NDAOUD, M. et MINSKER, S. \(2022\). Adaptive Robust and Sub-Gaussian Deviations in Sparse Linear Regression. Dans: 2022 Institute of Mathematical Statistics \(IMS\) International Conference on Statistics and Data Science \(ICSIDS\). Florence.](#)

[BUTUCEA, C., MAMMEN, E., NDAOUD, M. et TSYBAKOV, A.B. \(2022\). Variable selection, monotone likelihood ratio and group sparsity. Dans: 2022 Institute of Mathematical Statistics \(IMS\) Annual Meeting. London.](#)

[NDAOUD, M. et MINSKER, S. \(2022\). Adaptive Robustness and sub-Gaussian Deviations in Sparse Linear Regression through Pivotal Double SLOPE. Dans: Re-thinking High-dimensional Mathematical Statistics. Oberwolfach.](#)

[NDAOUD, M. et KARAGULYAN, V. \(2024\). Improved Mean Estimation in the Hidden Markovian Gaussian Mixture Model. Dans: 2024 International Symposium on Nonparametric Statistics. Braga.](#)

INVITED SPEAKER AT AN ACADEMIC CONFERENCE

[MINSKER, S., NDAOUD, M. et SHEN, Y. \(2021\). Minimax Supervised Clustering in the Anisotropic Gaussian Mixture Model: interpolation is all you need. Dans: 2021 Mathematical Statistics and Learning. Barcelona.](#)

[NDAOUD, M., MINSKER, S. et WANG, L. \(2024\). Robust and Tuning-Free Sparse Linear Regression via Square-Root Slope. Dans: 6th Institute for Mathematical Statistics – Asia-Pacific Rim Meeting \(IMS-APRM 2024\). Melbourne.](#)

[NDAOUD, M. et MINSKER, S. \(2023\). Robust and Efficient Mean Estimation: an Approach Based on the Properties of Self-Normalized Sums. Dans: 2023 Mathematics & Decision Conference. Ben Guerir.](#)

JOURNAL ARTICLES

[BUTUCEA, C., NDAOUD, M., STEPANOVA, N. et TSYBAKOV, A.B. \(2018\). Variable selection with Hamming loss. *Annals of Statistics*, 46\(5\), pp. 1837-1875.](#)

[COMMINGES, L., COLLIER, O., NDAOUD, M. et TSYBAKOV, A. \(2021\). Adaptive robust estimation in sparse vector model. *Annals of Statistics*, 49\(3\), pp. 1347-1377.](#)

[NDAOUD, M. et TSYBAKOV, A. \(2020\). Optimal variable selection and adaptive noisy Compressed Sensing. *IEEE Transactions on Information Theory*, 66\(4\), pp. 2517-2532.](#)

[NDAOUD, M., SIGALA, S. et TSYBAKOV, A. \(2022\). Improved clustering algorithms for the Bipartite](#)

[Stochastic Block Model. *IEEE Transactions on Information Theory*, 68\(3\), pp. 1960-1975.](#)

[MINSKER, S. et NDAOUD, M. \(2021\). Robust and efficient mean estimation: an approach based on the properties of self-normalized sums. *The Electronic Journal of Statistics*, 15\(2\), pp. 6036-6070.](#)

[NDAOUD, M. \(2022\). Sharp optimal recovery in the two Component Gaussian Mixture Model. *Annals of Statistics*, 50\(4\), pp. 2096-2126.](#)

[NDAOUD, M. \(2023\). Harmonic analysis meets stationarity: A general framework for series expansions of special Gaussian processes. *Bernoulli: A Journal of Mathematical Statistics and Probability*, 29\(3\), pp. 2295 - 2317.](#)

[BUTUCEA, C., MAMMEN, E., NDAOUD, M. et TSYBAKOV, A.B. \(2023\). Variable selection, monotone likelihood ratio and group sparsity. *Annals of Statistics*, 51\(1\), pp. 312-333.](#)

[MINSKER, S., NDAOUD, M. et WANG, L. \(2024\). Robust and Tuning-Free Sparse Linear Regression via Square-Root Slope. *SIAM Journal on Mathematics of Data Science*, 6\(2\), pp. 428-453.](#)

[MINSKER, S. et NDAOUD, M. \(2025\). Classification in the high dimensional Anisotropic mixture framework: A new take on Robust Interpolation. *Journal of Machine Learning Research*, 26\(153\), pp. 1-39.](#)

CONFERENCE PROCEEDINGS

[NDAOUD, M. \(2019\). Interplay of minimax estimation and minimax support recovery under sparsity. Dans: *Algorithmic Learning Theory \(ALT\)*. Proceedings of Machine Learning Research.](#)