Pierre ALQUIER

Professeur
Département: Systèmes d'Information, Data Analytics et Opérations
ESSEC Business School
5 Nepal Park
139408 Singapore
Singapour

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INTERETS DE RECHERCHE

Analyse des données statistiques, Théorie des probabilités et statistiques, Bayesian methods,

FORMATION

2013 Habilitation à diriger des recherches, Université Pierre et Marie Curie (UPMC), France
Constributions to Statistical Learning in Sparse Models

2006 PhD (mathematical statistics), Université Pierre et Marie Curie (UPMC), France

Transductive and Inductive Adaptative Inference for Density and Regression Estimation

2003 MSc in Probability Theory and Statistics, Université Pierre et Marie Curie (UPMC), France

2003 Diplôme de statisticien-économiste, L'École nationale de la statistique et de l'administration économique (ENSAE), France

EXPERIENCE PROFESSIONNELLE

Positions académiques principales

2023 - Présent Professeur, ESSEC Business School, Singapour

Autres affiliations académiques

2019 - 2022 Chargé de recherches, RIKEN, Japon

2014 - 2019 Professeur, L'École nationale de la statistique et de l'administration économique (ENSAE), France

2012 - 2014 Lecturer, University College of Dublin, Irlande

2007 - 2012 Maître de Conférences, Université Paris Diderot (Paris VII), France

2006 - 2007 A.T.E.R., Université Paris Dauphine-PSL, France

BOURSES, PRIX ET DISTINCTIONS

Prix et Distinctions

2019 Best Paper Award, Asian Conference on Machine Learning, Japon

Bourses

2026 CY Initiative - programme Horizon: Safe Decisions via Adaptive Learning of Time Series (SafeTime), CY Cergy Paris Université, France

PUBLICATIONS

Articles

LEGRAMANTI, S., DURANTE, D. et ALQUIER, P. (2025). Concentration of discrepancy-based approximate Bayesian computation via Rademacher complexity. *Annals of Statistics*, 53(1), pp. 37-60.

RIOU, C., ALQUIER, P. et CHÉRIEF-ABDELLATIF, B.E. (2025). Bayes Meets Bernstein at the Meta Level: an Analysis of Fast Rates in Meta-Learning with PAC-Bayes. *Journal of Machine Learning Research*, 26(2), pp. 1-60.

WOLFER, G. et ALQUIER, P. (2025). Variance-Aware Estimation of Kernel Mean Embedding. *Journal of Machine Learning Research*, 26(57), pp. 1--48.

ALQUIER, P. et GERBER, M. (2025). regMMD: a package for parametric estimation and regression with maximum mean discrepancy. *Computo*, In press.

ALQUIER, P. et KENGNE, W. (2025). Minimax optimality of deep neural networks on dependent data via PAC-Bayes bounds. *The Electronic Journal of Statistics*, 19, pp. 5895-5924.

ALQUIER, P. et GERBER, M. (2024). Universal Robust Regression via Maximum Mean Discrepancy. *Biometrika*, 111(1), pp. 71-92.

NAKAKITA, S., ALQUIER, P. et IMAIZUMI, M. (2024). Dimension-free bounds for sums of dependent matrices and operators with heavy-tailed distribution. *The Electronic Journal of Statistics*, 18(1), pp. 1130-1159.

ALQUIER, P., CHERIEF-ABDELLATIF, B.E., DERUMIGNY, A. et FERMANIAN, J.D. (2023). Estimation of Copulas via Maximum Mean Discrepancy. *Journal of the American Statistical Association*, 118(543), pp. 1997-2012.

FAN, X., ALQUIER, P. et DOUKHAN, P. (2022). Deviation inequalities for stochastic approximation by averaging. *Stochastic Processes and their Applications*, 152, pp. 452-485.

ALQUIER, P., MARIE, N. et ROSIER, A. (2022). Tight risk bound for high dimensional time series completion. *The Electronic Journal of Statistics*, 16(1), pp. 3001-3035.

CHERIEF-ABDELLATIF, B.E. et ALQUIER, P. (2022). Finite sample properties of parametric MMD estimation: Robustness to misspecification and dependence. *Bernoulli: A Journal of Mathematical Statistics and Probability*, 28(1), pp. 181-213.

MEUNIER, D. et ALQUIER, P. (2021). Meta-Strategy for Learning Tuning Parameters with Guarantees. *Entropy*, 23(10).

CAREL, L. et ALQUIER, P. (2021). Simultaneous dimension reduction and clustering via the NMF-EM algorithm. *Advances in Data Analysis and Classification*, 15(1), pp. 231-260.

ALQUIER, P. et RIDGWAY, J. (2020). Concentration of tempered posteriors and of their variational approximations. *Annals of Statistics*, 48(3), pp. 1475-1497.

ALQUIER, P., BERTIN, K., DOUKHAN, P. et GARNIER, R. (2020). High-dimensional VAR with low-rank transition. *Statistics and Computing*, 30(4), pp. 1139-1153.

ALQUIER, P., COTTET, V. et LECUE, G. (2019). Estimation bounds and sharp oracle inequalities of regularized procedures with Lipschitz loss functions. *Annals of Statistics*, 47(4), pp. 2117-2144.

ALQUIER, P. et MARIE, N. (2019). Matrix factorization for multivariate time series analysis. *The Electronic Journal of Statistics*, 13(2), pp. 4346-4366.

ALQUIER, P., DOUKHAN, P. et FAN, X. (2019). Exponential inequalities for nonstationary Markov chains. *Dependence Modeling*, 7(1), pp. 150-168.

MAIRE, F., FRIEL, N. et ALQUIER, P. (2019). Informed sub-sampling MCMC: approximate Bayesian inference for large datasets. *Statistics and Computing*, 29(3), pp. 449-482.

CHERIEF-ABDELLATIF, B.E. et ALQUIER, P. (2018). Consistency of variational Bayes inference for estimation and model selection in mixtures. *The Electronic Journal of Statistics*, 12(2), pp. 2995-3035.

ALQUIER, P. et GUEDJ, B. (2018). Simpler PAC-Bayesian bounds for hostile data. *Machine Learning*, 107(5), pp. 887-902.

COTTET, V. et ALQUIER, P. (2018). 1-Bit matrix completion: PAC-Bayesian analysis of a variational approximation. *Machine Learning*, 107(3), pp. 579-603.

MAI, T.T. et ALQUIER, P. (2017). Pseudo-Bayesian quantum tomography with rank-adaptation. *Journal of Statistical Planning and Inference*, 184, pp. 62-76.

ALQUIER, P. et GUEDJ, B. (2017). An oracle inequality for quasi-Bayesian nonnegative matrix factorization. *Mathematical Methods of Statistics*, 26(1), pp. 55-67.

ALQUIER, P., RIDGWAY, J. et CHOPIN, N. (2016). On the Properties of Variational Approximations of Gibbs Posteriors. *Journal of Machine Learning Research*, 17(239), pp. 1-41.

ALQUIER, P., FRIEL, N., EVERITT, R. et BOLAND, A. (2016). Noisy Monte Carlo: convergence of Markov chains with approximate transition kernels. *Statistics and Computing*, 26(1-2), pp. 29-47.

MAI, T.T. et ALQUIER, P. (2015). A Bayesian approach for noisy matrix completion: Optimal rate under general sampling distribution. *The Electronic Journal of Statistics*, 9(1), pp. 823-841.

ALQUIER, P., LI, X. et WINTENBERGER, O. (2013). Prediction of time series by statistical learning: general losses and fast rates. *Dependence Modeling*, 1, pp. 65-93.

ALQUIER, P., BUTUCEA, C., HEBIRI, M., MEZIANI, K. et MORIMAE, T. (2013). Rank-penalized estimation of a quantum system. *Physical Review A*, 88(3).

ALQUIER, P., MEZIANI, K. et PEYRÉ, G. (2013). Adaptive estimation of the density matrix in quantum homodyne tomography with noisy data. *Inverse Problems*, 29(7), pp. 075017.

ALQUIER, P. et BIAU, G. (2013). Sparse Single-Index Model. *Journal of Machine Learning Research*, 14, pp. 243-280.

GUEDJ, B. et ALQUIER, P. (2013). PAC-Bayesian estimation and prediction in sparse additive models. *The Electronic Journal of Statistics*, 7, pp. 264-291.

ALQUIER, P. et WINTENBERGER, O. (2012). Model selection for weakly dependent time series forecasting. *Bernoulli: A Journal of Mathematical Statistics and Probability*, 18(3), pp. 883-913.

ALQUIER, P. et HEBIRI, M. (2012). Transductive versions of the LASSO and the Dantzig Selector. *Journal of Statistical Planning and Inference*, 142(9), pp. 2485-2500.

ALQUIER, P. et HEBIRI, M. (2011). Generalization of constraints for high dimensional regression problems. *Statistics & Probability Letters*, 81(12), pp. 1760-1765.

ALQUIER, P. et DOUKHAN, P. (2011). Sparsity considerations for dependent variables. *The Electronic Journal of Statistics*, 5, pp. 750-774.

ALQUIER, P. et LOUNICI, K. (2011). PAC-Bayesian bounds for sparse regression estimation with exponential weights. *The Electronic Journal of Statistics*, 5, pp. 127-145.

ALQUIER, P. (2008). PAC-Bayesian bounds for randomized empirical risk minimizers. *Mathematical Methods of Statistics*, 17(4), pp. 279-304.

ALQUIER, P. (2008). LASSO, Iterative Feature Selection and the Correlation Selector: Oracle inequalities and numerical performances. *The Electronic Journal of Statistics*, 2, pp. 1129-1152.

ALQUIER, P. (2008). Density estimation with quadratic loss: a confidence intervals method. *ESAIM: Probability and Statistics*, 12, pp. 438-463.

ALQUIER, P. (2008). Iterative feature selection in least square regression estimation. *Annales de l Institut Henri Poincare-Probabilites et Statistiques*, 44(1), pp. 47-88.

Ouvrages et édition d'ouvrages

ALQUIER, P. (2024). *User-friendly Introduction to PAC-Bayes Bounds*. Boston - Delft: now publishers.

ALQUIER, P. [Ed] (2022). *Approximate Bayesian Inference*. MDPI.

ALQUIER, P., GAUTIER, E. et STOLTZ, G. [Eds] (2011). *Inverse Problems and High-Dimensional Estimation*. Springer Berlin Heidelberg.

Editeur invité d'un numéro spécial

AHMED, S.E., DINOV, I. et ALQUIER, P. (2026). Methods and Applications in High-Dimensional, Incomplete, Sensitive, and Longitudinal Data. *Statistics & Probability Letters*.

TRAPP, M. et ALQUIER, P. (2026). Advances in Probabilistic Machine Learning. *Entropy*.

Actes d'une conférence

KARAGULYAN, V. et ALQUIER, P. (2026). Empirical PAC-Bayes bounds for Markov chains. Dans: *29th Annual Conference on Artificial Intelligence and Statistics (AIStats'2026)*. Proceedings of Machine Learning Research, pp. 631--369.

PAPAMARKOU, T., ALQUIER, P., BAUER, M., BUNTINE, W., DAVISON, A., DZIUGAITE, G.K. ... ZAYTSEV, A. (2026). Position: agentic AI orchestration should be Bayes-consistent. Dans: *43rd International Conference on Machine Learning (ICML'26)*. Seoul: Proceedings of Machine Learning Research, pp. 171622-171639.

SAKHI, O., AOUALI, I., ALQUIER, P. et CHOPIN, N. (2024). Logarithmic Smoothing for Pessimistic Off-Policy Evaluation, Selection and Learning. Dans: *38th Conference on Neural Information Processing Systems (NeurIPS'24)*. Vancouver: Curran Associates, Inc, pp. 80706-80755.

SAKHI, O., ALQUIER, P. et CHOPIN, N. (2023). PAC-Bayesian Offline Contextual Bandits With Guarantees. Dans: *40th International Conference on Machine Learning (ICML)*. Hawaii: Proceedings of Machine Learning Research, pp. 29777-29799.

MAI, T.T. et ALQUIER, P. (2022). Understanding the Population Structure Correction Regression. Dans: *4th International Conference on Statistics: Theory and Applications (ICSTA'22)*. Prague: Avestia Publishing.

ALQUIER, P. (2021). Non-exponentially Weighted Aggregation: Regret Bounds for Unbounded Loss Functions. Dans: *38th International Conference on Machine Learning (ICML'21)*. Proceedings of Machine Learning Research.

DOAN, T., ABBANA BENNANI, M., MAZOURE, B., RABUSSEAU, G. et ALQUIER, P. (2021). A Theoretical Analysis of Catastrophic Forgetting through the NTK Overlap Matrix. Dans: *24th International Conference on Artificial Intelligence and Statistics (AIStat'21)*. Proceedings of Machine Learning Research.

CHERIEF-ABDELLATIF, B.E. et ALQUIER, P. (2020). MMD-Bayes: Robust Bayesian Estimation via Maximum Mean Discrepancy. Dans: *2nd Symposium on Advances in Approximate Bayesian Inference (AABI'19)*. Proceedings of Machine Learning Research.

CHERIEF-ABDELLATIF, B.E., ALQUIER, P. et KHAN, M.E. (2019). A Generalization Bound for Online Variational Inference. Dans: *11th Asian Conference on Machine Learning (ACML'19)*. Proceedings of Machine Learning Research.

ALQUIER, P., MAI, T.T. et PONTIL, M. (2017). Regret Bounds for Lifelong Learning. Dans: *20th International Conference on Artificial Intelligence and Statistics (AIStat'17)*. Proceedings of Machine Learning Research.

CAREL, L. et ALQUIER, P. (2017). Non-negative Matrix Factorization as a Pre-processing tool for Travelers Temporal Profiles Clustering. Dans: *25th European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN'17)*. i6doc.com.

RIDGWAY, J., ALQUIER, P., CHOPIN, N. et LIANG, F. (2014). PAC-Bayesian AUC Classification and Scoring. Dans: *28th Conference on Neural Information Processing Systems (NIPS'14)*. Curran Associates, Inc.

ALQUIER, P. (2013). Bayesian Methods for Low-Rank Matrix Estimation: Short Survey and Theoretical Study. Dans: *24th International Conference on Algorithmic Learning Theory (ALT'13)*. Singapore: Springer Berlin Heidelberg, pp. 309-323.

ALQUIER, P. et LI, X. (2012). Prediction of Quantiles by Statistical Learning and Application to GDP Forecasting. Dans: *15th International Conference on Discovery Science (DS'12)*. Lyon: Springer Berlin Heidelberg, pp. 22-36.

ALQUIER, P. (2010). An Algorithm for Iterative Selection of Blocks of Features. Dans: *21st International Conference on Algorithmic Learning Theory (ALT'10)*. Caberra: Springer Berlin Heidelberg, pp. 35-49.

Conférences

ALQUIER, P., RIOU, C. et CHÉRIEF-ABDELLATIF, B.E. (2026). Rates of convergence in Bayesian meta-learning. Dans: IMS Asia-Pacific Rim Meeting 2026. Hong-Kong.

ALQUIER, P. et KARAGULYAN, V. (2026). Empirical PAC-Bayes bounds for Markov chains. Dans: OPTIMAL: Optimisation and Post-Bayesian Inference in Machine Learning, Satellite Workshop AISTATS 2026. Tangier.

KARAGULYAN, V. et ALQUIER, P. (2026). Empirical PAC-Bayes bounds for Markov chains. Dans: 9th International Conference on Econometrics and Statistics (EcoSta 2026). Kyoto.

ALQUIER, P. (2026). Research at ESSEC and the SafeTime project: Safe Decisions via Adaptive Learning of Time Series. Dans: SinFra 2026. Singapore.

ALQUIER, P. et KHRIBCH, E.M. (2026). A new Mutual Information bound for statistical inference. Dans: The 2026 ISBA World Meeting. Nagoya.

ALQUIER, P. et KHRIBCH, E.M. (2026). A mutual information bound for statistical inference. Dans: Oberwolfach Workshop 2631: Bayesian Methods. Oberwolfach.

ALQUIER, P. (2025). User-friendly introduction to PAC-Bayes bounds. Dans: 2025 Heidelberg-Paris Workshop on Mathematical Statistics. Heidelberg.

ALQUIER, P. et KHRIBCH, E.M. (2025). A new mutual information bound for statistical inference. Dans: Bayesian Computation and Inference with Misspecified Models, Satellite Workshop BayesComp 2025. Singapore.

ALQUIER, P. (2025). Une bonne d'information mutuelle pour l'inférence statistique. Dans: Journée ANR BACKUP. Paris.

ALQUIER, P. (2025). An open question about online variational inference. Dans: Rethinking the Role of Bayesianism in the Age of Modern AI, workshop at Mohamed bin Zayed University of Artificial Intelligence. Abu Dhabi.

ALQUIER, P. (2025). Introduction to Sports Analytics. Dans: Science & Society 2025, ESSEC Business School. Cergy.

ALQUIER, P. et KHRIBCH, M. (2025). Convergence of Statistical Estimators via Mutual Information Bounds. Dans: 2025 Recent Advances in Statistical Robustness. Rabat.

ALQUIER, P., RIOU, C. et CHÉRIEF-ABDELLATIF, B.E. (2024). Rates of Convergence in Bayesian Meta-learning. Dans: 2024 IMS Asia-Pacific Rim Meeting. Melbourne.

WOLFER, G. et ALQUIER, P. (2024). Optimistic Estimation of Convergence in Markov Chains with the Average Mixing Time. Dans: International Conference on Scientific Computation and Differential Equations. Singapore.

ALQUIER, P. (2024). PAC-Bayes bounds: understanding the generalization of Bayesian learning algorithms. Dans: CNRS - ESSEC APAC Workshop. Singapore.

ALQUIER, P. (2024). PAC-Bayesian Bounds for Offline Contextual Bandits. Dans: Mini-Workshop on Learning Theory & Methodology at NTU. Singapore.

ALQUIER, P. (2024). Learning with PAC-Bayes bounds. Dans: Third RIKEN AIP & A*STAR-CFAR Joint Workshop on Machine Learning and Artificial Intelligence. Singapore.

WOLFER, G. et ALQUIER, P. (2024). Optimistic Estimation of Convergence in Markov Chains with the Average Mixing Time. Dans: Meeting in Mathematical Statistics, CIRM. Marseille.

ALQUIER, P. (2024). Laplace vs. variational approximations: a biased point of view. Dans: Rethinking the Role of Bayesianism in the Age of Modern AI, Dagstuhl Seminar 24461. Dagstuhl.

ALQUIER, P., RIOU, C. et CHÉRIEF-ABDELLATIF, B.E. (2023). Rates of convergence in Bayesian meta-learning. Dans: 6th International Conference on Econometrics and Statistics 2023. Tokyo.

ALQUIER, P. et CHÉRIEF-ABDELLATIF, B.E. (2023). Fast Rates in Meta-Learning with PAC-Bayes Bounds. Dans: 12th Workshop on High Dimensional Data Analysis 2023. Rabat.

Invité dans une conférence académique

ALQUIER, P. (2026). Empirical PAC-Bayes bounds for Markov Chains. Dans: 17th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC). Edinburgh.

ALQUIER, P. (2026). Generalization bounds in machine learning, information theory and predictions. Dans: Information Theory Workshop, OIST. Okinawa.

ALQUIER, P. (2026). An Introduction to PAC-Bayesian Theory and its Modern Applications. Dans: Statistics and Learning Theory Summer School (Yerevan State University). Yerevan.

ALQUIER, P. (2025). 2 lectures on PAC-Bayes bounds. Dans: Heidelberg-Paris Workshop on Mathematical Statistics. Heidelberg.

ALQUIER, P. et KHRIBCH, E.M. (2025). Convergence of Statistical Estimators via Mutual Information Bounds. Dans: Okinawa Institute of Science and Technology Machine Learning Workshop. Okinawa.

ALQUIER, P. et KHRIBCH, E.M. (2025). A new mutual information bound for statistical inference. Dans: Workshop: Recent Advances in Statistical Robustness. Rabat.

ALQUIER, P. et GERBER, M. (2024). Robust estimation and regression with MMD. Dans: The Mathematics of Data: Workshop on Optimization and Discrete Structures. Singapore.

ALQUIER, P. (2024). Introduction to PAC-Bayes bounds. Dans: Machine Learning Summer School in Okinawa 2024. Okinawa.

SAKHI, O., ALQUIER, P. et CHOPIN, N. (2024). PAC-Bayesian Offline Contextual Bandits With Guarantees. Dans: Closing Workshop of the ISBA Programme on Interpretable Inference via Principled BNP Approaches in Biomedical Research and Beyond. Singapore.

ALQUIER, P. (2024). PAC-Bayesian Bounds, with applications to Deep Learning and Offline Contextual Bandits. Dans: International Conference on Mathematical Theory of Deep Learning, Chinese Academy of Science. Beijing.

Préfaces de revue

ALQUIER, P. (2020). Approximate Bayesian Inference. *Entropy*, 22(11), pp. 1272.

KOWALCZYK, A., ZIMEK, A., HAMMER, B., KABAN, A., LEE, J.A., VAN DER MAATEN, L. ... YING, Y. (2013). Preface to the First International Workshop on High Dimensional Data Mining. *International Conference on Data Mining Workshops*, 13, pp. xl-xli.

Présentation dans un séminaire de recherche

ALQUIER, P. (2025). PAC-Bayes bounds: an introduction. Dans: Post-Bayes seminar series (online). London.

ALQUIER, P. (2024). PAC-Bayes bounds: understanding the generalization of Bayesian learning algorithms. Dans: Stochastics Seminar, Department of Mathematics, NUS. Singapore.

WOLFER, G. et ALQUIER, P. (2024). Optimistic Estimation of Convergence in Markov Chains with the Average Mixing Time. Dans: DeLTA Lab seminar, University of Copenhagen. Copenhagen.

ALQUIER, P. (2023). Concentration of variational approximations. Dans: Department of Statistics and Data Science Seminar. Singapore.

ALQUIER, P. (2023). Robust estimation with MMD. Dans: UCD School of Mathematics and Statistics -- Statistics Seminar. Dublin.

ALQUIER, P. (2023). Robust estimation and regression with MMD. Dans: Séminaire de Probabilités et Statistiques d'Orsay. Orsay.

ALQUIER, P. (2023). Rates of convergence in Bayesian meta-learning. Dans: UCL Statistical Science Seminars. London.

ALQUIER, P. (2023). Robust estimation and regression with MMD. Dans: Séminaire de Statistique du Laboratoire "Probabilités, Statistiques et Modélisation". Paris.

Presse

ALQUIER, P. 2025. *Interview of Statistics and ML Expert - Pierre Alquier*. Avril.

ALQUIER, P. 2025. *Encountered a problematic response from an AI model? More standards and tests are needed, say researchers*. Juin.

ALQUIER, P. 2024. *Deepfakes: a comms person's friend or foe?* Mai.

ALQUIER, P. 2023. *ChatGPT*. Mars.

ALQUIER, P. 2023. *Generative AI: Friend or Foe?* Mars.

ALQUIER, P. 2023. *Getting organised for AI*. Septembre.

ALQUIER, P. 2023. *A.I. -- An Enabler, Not A Solution*. Octobre.

ALQUIER, P. (2026). L'apprentissage bayésien à l'heure des LLM. *Variances, le webzine des ENSAE Alumni*.

ALQUIER, P. (2018). Prédire aussi bien que les meilleurs (et en plus en faisant des maths !).

AUTRES ACTIVITES DE RECHERCHE

Co-direction d'une revue

2025 - 2026	Statistics and Computing
Depuis 2025	The Electronic Journal of Statistics
2022 - 2024	Transactions of Machine Learning Research
Depuis 2020	Journal of Machine Learning Research

Membre d'un comité de lecture

2020 - 2022	Entropy

Organisation d'une conférence

2026	Organisation d'une session à IMS Pacific Rim Meeting: Statistical Learning Theory with Dependent/Markov Observations, Université chinoise de Hong Kong, Chine
2026	Co-organizer of the CREAR workshop: Advances in Risk Analysis & Management: A focus on Emergent Risks, ESSEC CREAR, France
2025	CNRS-SMU-ESSEC Mini-workshop: Statistical Methods in Machine Learning and AI, ESSEC Business School, Singapour
2024	The 13th Workshop on High Dimensional Data Analysis (HDDA-XIII), ESSEC Business School, Singapour
2024	Interpretable Inference via Principled BNP Approaches in Biomedical Research and Beyond, National University of Singapore, Singapour
2024	CNRS@CREATE -- ESSEC APAC workshop, ESSEC Business School, Singapour
2024	Approximate Inference in Theory and Practice Conference, Institut Henri Poincaré, France

Affiliations

Depuis 2026	Member of the Research Section Committee of the Royal Statistical SocietyMember of the Research Section Committee of the Royal Statistical Society, Royal Statistical Society, Royaume-Uni
2025 - 2028	Member of the ALT Steering Committee, Association for Algorithmic Learning Theory (AALT)
Depuis 2026	Membre, Royal Statistical Society, Royaume-Uni
Depuis 2022	Member, Société Française de Statistique (SFdS), France
Depuis 2022	Member, Société de Mathématiques Appliquées et Industrielles (SMAI), France
Depuis 2022	Member, Société Mathématique de France (SMF), France
Depuis 2022	Member, European Mathematical Society (EMS)
Depuis 2014	Member, IMS - Bernoulli Society, États-Unis

Supervision de thèses / HDR

2026	E. M. KHRIBCH (ESSEC Business School), Co-directeur de thèse, Premier Poste : Post-Doc, ANR BACKUP (Sorbonne Université et Université-Paris Saclay)
2023	A. ROSIER (Université Paris X Nanterre), Co-directeur de thèse, Premier Poste : Enseignant-chercheur à l'école d'ingénieurs ESME
2020	B.-E. CHÉRIEF-ABDELLATIF (L'École nationale de la statistique et de l'administration économique (ENSAE)), Directeur de thèse, Premier Poste : Post-doctoral researcher, University of Oxford
2019	L. CAREL (L'École nationale de la statistique et de l'administration économique (ENSAE)), Directeur de thèse, Premier Poste : Machine learning scientist, Expedia group
2017	V. COTTET (L'École nationale de la statistique et de l'administration économique (ENSAE)), Co-directeur de thèse, Premier Poste : Senior statistician, INSEE
2017	T. T. MAI (L'École nationale de la statistique et de l'administration économique (ENSAE)), Directeur de thèse, Premier Poste : Post-doctoral researcher, University of Oslo
	V. KARAGULYAN (ESSEC Business School), Co-directeur de thèse
	V. VIDRIL (CY Cergy Paris Université), Co-directeur de thèse

Autres activités de recherche

Depuis 2024	arXiv moderator, arXiv, États-Unis
2027	ICML 2027: Senior Area Chair, International Machine Learning Society (ICML), États-Unis
2027	ALT 2027: senior PC member, Association for Algorithmic Learning Theory (AALT), Pays-Bas
2026	The 15th Workshop on High Dimensional Data Analysis (HDDA-XV) - Member of the Scientific Committee, İstanbul Medipol Üniversitesi, Turquie

2026 ICML 2026: Senior Area Chair, International Machine Learning Society (ICML), Corée du Sud

2026 Membre du comité scientifique des journées "Time series analysis and deep learning", Université Jean Monnet (Saint-Etienne), France

2026 AISTATS 2026: Journal-to-conference track Chair, The Society for AI and Statistics, Maroc

2026 ALT 2026: PC Chair, Association for Algorithmic Learning Theory (AALT), Canada

2025 The 14th Workshop on High Dimensional Data Analysis (HDDA-XIV) - Member of the Scientific Committee, Central Michigan University, États-Unis

2025 ICML 2025: Senior Area Chair, International Machine Learning Society (ICML), Canada

2025 ALT 2025: PC chair, Association for Algorithmic Learning Theory (AALT), Italie

2025 Bayes Comp 2025: Member of the Scientific program committee, National University of Singapore, Singapour

2025 12ème Journées d'Econométrie de la Finance -- Membre du comité scientifique, Université Mohammed V, Maroc

2025 AISTATS 2025: Journal-to-conference track Chair, The Society for AI and Statistics, Thaïlande

2025 ICLR 2025: Workshop Chair, International Conference on Learning Representations (ICLR), Singapour

2024 COLT 2024: senior PC member, Association for Computational Learning (ACL), Canada

2024 ALT 2024: senior PC member, Association for Algorithmic Learning Theory (AALT), États-Unis

2023 ACML 2023: PC chair, Asian Conference on Machine Learning, Turquie

2023 COLT 2023: senior PC member, Association for Computational Learning (ACL), Inde

2023 ALT 2023: senior PC member, Association for Algorithmic Learning Theory (AALT), Singapour

2022 NeurIPS 2022: AC (area chair), Neural Information Processing Systems foundation, États-Unis

2022 COLT 2022: PC chair, Association for Computational Learning (ACL), Royaume-Uni

2022 AISTATS 2022: AC (area chair), The Society for AI and Statistics

2021 NeurIPS 2021: AC (area chair), Neural Information Processing Systems foundation, États-Unis

2021 ITISE 2021: PC chair, Universidad de Granada, Espagne

2020 ALT 2020: PC chair, Association for Algorithmic Learning Theory (AALT), États-Unis

2018 JDS 2018: membre du comité scientifique, Société Française de Statistique (SFdS), France