

Pierre ALQUIER

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Professor

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

DIPLOMAS

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- | | |
|------|---|
| 2013 | Habilitation à diriger des recherches
(Université Pierre et Marie Curie (UPMC) France) |
| 2006 | PhD (mathematical statistics)
(Université Pierre et Marie Curie (UPMC) France) |
| 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) |

CAREER

FULL-TIME ACADEMIC APPOINTMENTS

- | | |
|------------|---|
| 2023 - Now | Professor (ESSEC Business School Singapore) |
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OTHER APPOINTMENTS

- | | |
|-------------------|----------------------------------|
| 2019 - 2022-12-31 | Research scientist (RIKEN Japan) |
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OTHER ACADEMIC APPOINTMENTS

- | | |
|-------------------|---|
| 2014 - 2019-07-31 | Professor (L'École nationale de la statistique et de l'administration économique
(ENSAE) France) |
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2012 - 2014-08-31 Lecturer (University College of Dublin Ireland)

2007 - 2012-08-31 Assistant Professor (Université Paris Diderot (Paris VII) France)

2006 - 2007-08-31 Teaching and Research Assistant (Université Paris Dauphine-PSL France)

PUBLICATIONS

INTERVIEWS: RADIO - TV - PRESS

[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. 2024. *Deepfakes: a comms person's friend or foe? Mai.*](#)

[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.*](#)

BOOK EDITOR

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

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

PRESENTATIONS AT AN ACADEMIC OR PROFESSIONAL CONFERENCE

[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.](#)

[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.](#)

[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. \(2025\). User-friendly introduction to PAC-Bayes bounds. Dans: 2025 Heidelberg-Paris Workshop on Mathematical Statistics. Heidelberg.](#)

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

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

[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. 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. \(2025\). 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.](#)

PRESENTATIONS AT A FACULTY RESEARCH SEMINAR

[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.](#)

[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. \(2025\). 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.](#)

JOURNAL ARTICLES

[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., 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.](#)

[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.](#)

[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., 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. 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.](#)
- [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 Poincaré-Probabilités et Statistiques*, 44\(1\), pp. 47-88.](#)
- [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.](#)
- [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.](#)
- [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.](#)

CONFERENCE PROCEEDINGS

[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.](#)

[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.](#)

[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.](#)

PREFACES OF A JOURNAL

[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.](#)

HDR

[ALQUIER, P. \(2013\). Contributions to Statistical Learning in Sparse Models. Paris: France.](#)

INVITED SPEAKER AT AN ACADEMIC CONFERENCE

[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.](#)

[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. \(2025\). TBC. Dans: Workshop: Recent Advances in Statistical Robustness. Rabat.](#)

BOOKS

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

RESEARCH ACTIVITIES

Senior or Associate Editor

2020 - Now: Action Editor: Journal of Machine Learning Research
2022 - 2024: Action Editor: Transactions in Machine Learning Research
2025 - Now: Associate Editor: The Electronic Journal of Statistics
2025 - Now: Associate Editor: Statistics and Computing

Editorial Board Membership

2020 - 2022: Topic Advisory Panel: Entropy

Organization of a conference or a seminar

2024 - 2024: CNRS@CREATE -- ESSEC APAC workshop (ESSEC Business School Singapore)
2024 - 2024: Approximate Inference in Theory and Practice Conference (Institut Henri Poincaré France)
2024 - 2024: The 13th Workshop on High Dimensional Data Analysis (HDDA-XIII) (ESSEC Business School Singapore)
2024 - 2024: Interpretable Inference via Principled BNP Approaches in Biomedical Research and Beyond (National University of Singapore Singapore)
2025 - 2025: CNRS-SMU-ESSEC Mini-workshop: Statistical Methods in Machine Learning and AI (ESSEC Business School Singapore)
2026 - 2026: Co-organizer of the CREAR workshop: Advances in Risk Analysis & Management: A focus on Emergent Risks (ESSEC CREAR France)

Participation in scientific commissions or reviewer for a conference

- 2024 - 2024: COLT 2024: senior PC member (Association for Computational Learning (ACL) Canada)
- 2024 - 2024: ALT 2024: senior PC member (Association for Algorithmic Learning Theory (AALT) United States of America)
- 2023 - 2023: COLT 2023: senior PC member (Association for Computational Learning (ACL) India)
- 2023 - 2023: ALT 2023: senior PC member (Association for Algorithmic Learning Theory (AALT) Singapore)
- 2023 - 2023: ACML 2023: PC chair (Asian Conference on Machine Learning Turkey)
- 2025 - 2025: ALT 2025: PC chair (Association for Algorithmic Learning Theory (AALT) Italy)
- 2016 - 2016: AISTATS 2016: publication chair (The Society for AI and Statistics Spain)
- 2020 - 2020: ALT 2020: PC chair (Association for Algorithmic Learning Theory (AALT) United States of America)
- 2021 - 2021: ITISE 2021: PC chair (Universidad de Granada Spain)
- 2021 - 2021: NeurIPS 2021: AC (area chair) (Neural Information Processing Systems foundation United States of America)
- 2022 - 2022: AISTATS 2022: AC (area chair) (The Society for AI and Statistics)
- 2022 - 2022: COLT 2022: PC chair (Association for Computational Learning (ACL) United Kingdom)
- 2022 - 2022: NeurIPS 2022: AC (area chair) (Neural Information Processing Systems foundation United States of America)
- 2018 - 2018: JDS 2018: scientific committee member (Société Française de Statistique (SFdS) France)
- 2025 - 2025: ICLR 2025: Workshop Chair (International Conference on Learning Representations (ICLR) Singapore)
- 2025 - 2025: Bayes Comp 2025: Member of the Scientific program committee (National University of Singapore Singapore)
- 2025 - 2025: ICML 2025: Senior Area Chair (International Machine Learning Society (ICML) Canada)
- 2025 - 2025: AISTATS 2025: Journal-to-conference track Chair (The Society for AI and Statistics)
- 2025 - 2025: The 14th Workshop on High Dimensional Data Analysis (HDDA-XIV) - Member of the Scientific Committee (Central Michigan University United States of America)
- 2025 - 2025: 12th Days of Econometrics for Finance -- Member of the scientific committee (Université Mohammed V Morocco)
- 2026 - 2026: ALT 2026: PC Chair (Association for Algorithmic Learning Theory (AALT) Canada)
- 2026 - 2026: ICML 2026: Senior Area Chair (International Machine Learning Society (ICML) South Korea)
- 2026 - 2026: The 15th Workshop on High Dimensional Data Analysis (HDDA-XV) - Member of the Scientific Committee (İstanbul Medipol Üniversitesi Turkey)
- 2026 - 2026: AISTATS 2026: Journal-to-conference track Chair (The Society for AI and Statistics Morocco)

Other academic activity

2024 - Now: arXiv moderator (arXiv United States of America)

Member of an academic association

2014 - Now: Member (IMS - Bernoulli Society United States of America)

2022 - Now: Member (Société Française de Statistique (SFdS) France)

2022 - Now: Member (Société de Mathématiques Appliquées et Industrielles (SMAI) France)

2022 - Now: Member (Société Mathématique de France (SMF) France)

2022 - Now: Member (European Mathematical Society (EMS))

2026 - Now: Fellow (Royal Statistical Society United Kingdom)

Function in an academic association

2025 - 2028: Member of the ALT Steering Committee (Association for Algorithmic Learning Theory (AALT))

2026 - Now: Member of the Research Section Committee of the Royal Statistical Society (Royal Statistical Society United Kingdom)