Azadeh Khaleghi

Professor of Statistics
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CURRENT/PAST POSITIONS

- **2022 – present:** **Professor of Statistics, ENSAE - CREST, France**
- **2015 – 2022:** **Assistant Professor, Department of Mathematics & Statistics, Lancaster University, UK**
- **2013 – 2015:** **Postdoctoral Scholar, Mines ParisTech, France**

EDUCATION

- **2010–2013:** **Ph.D. Mathematics, Université de Lille I & INRIA, Lille, France** *(Distinction "très honorable")*
- **2007 – 2009:** **MSc. Electrical & Computer Engineering, University of Toronto, Toronto, Canada**
- **2003 – 2007:** **BSc. Electrical & Computer Engineering, University of Toronto, Toronto, Canada**

AWARDS & RECOGNITIONS

Co-Investigator GRAPH4HEALTH ANR Project (2023), Google Faculty Research Award in ML & Data Mining USD 58,000 (2019-20), LMS Grants (2018-19): Scheme 1 (£5,935), Scheme 4 (£1,000), Visiting Fellowship, Isaac Newton Institute, Cambridge (2018), Adobe Research Funding USD 15,000 (2017), E. M. Gold Award (2013), ALT International Conference, Tower of Teaching Award Nomination (2020), Lancaster University Maths & Stats; Postgrad Certificates in Academic Practice (PG-CAP I-II, 2016), France Research & Teaching Qualifications (2015).

SELECTED PUBLICATIONS & PREPRINTS

1. S. Grünewälder, **A. Khaleghi**, Estimating Mixing Coefficients of Geometrically Ergodic Markov Processes, IEEE Trans. Inf. Theory, 2025.
2. **A. Khaleghi**, On Restless Linear Bandits, IEEE Trans. Inf. Theory, 71(4):2982-2990, 2025.
3. G. Blower, **A. Khaleghi**, M. Kuchemann-Scales, Hasimoto Frames and Gibbs Measure of Periodic Nonlinear Schrödinger Equation, J. Math. Phys., 65(2), 2024.
4. **A. Khaleghi**, G. Lugosi, Inferring Mixing Properties of an Ergodic Process, IEEE Trans. Inf. Theory, 69(6):4014-4026, 2023.
5. S. Grünewälder, **A. Khaleghi**, Oblivious Data for Fairness with Kernels, JMLR, 208:1-36, 2021.
6. **A. Khaleghi**, D. Ryabko, Clustering Piecewise Stationary Processes, IEEE ISIT, 2020.
7. S. Grünewälder, **A. Khaleghi**, Approximations of the Restless Bandit Problem, JMLR, 20:1-37, 2019.
8. S. Grünewälder, **A. Khaleghi**, Oblivious Data, NeurIPS Workshop on Human-Centric ML, 2019.
9. **A. Khaleghi**, D. Ryabko, J. Mary, P. Preux, Consistent Algorithms for Clustering Time Series, JMLR, 17(3):1-32, 2016.
10. **A. Khaleghi**, D. Ryabko, Nonparametric Multiple Change Point Estimation in Highly Dependent Time Series, Theor. Comput. Sci., 620:119-133, 2016.
11. **A. Khaleghi**, D. Ryabko, Asymptotically Consistent Estimation of the Number of Change Points in Highly Dependent Time Series, ICML, 2014.
12. **A. Khaleghi**, D. Ryabko, Locating Changes in Highly-Dependent Data with an Unknown Number of Change-Points, NeurIPS, 2012.
13. **A. Khaleghi**, D. Ryabko, J. Mary, P. Preux, Online Clustering of Processes, AISTATS, 2012.
14. **A. Khaleghi**, D. Silva, F. R. Kschischang, Subspace Codes, Lect. Notes Comput. Sci., 2009.

RECENT CONFERENCE & SEMINAR PRESENTATIONS

- **Jun 2026:** **IMS Asia and Pacific Rim Meeting (IMS-APRM), Hong Kong, China.**Nice, France
- **Dec 2024:** **2024 IMS Int. Conf. on Statistics & Data Science (ICSDS)** Nice, France
- **Jun 2024:** **New Trends in Statistical Learning IV** Porquerolles, France
- **Nov 2023:** **Laboratoire Modal'X, Univ. Paris-Nanterre** Paris, France
- **Jul 2023:** **Data Science & Dependence Workshop, IWH** Heidelberg, Germany
- **Apr 2023:** **Le Séminaire Palaisien** Palaiseau, France
- **Jan 2023:** **Univ. Gustave Eiffel, Dept. of Math.** Marne-la-Vallée, France
- **Mar 2022:** **ENSAE** Palaiseau, France
- **Jan 2022:** **CMAP, École Polytechnique** Palaiseau, France
- **Nov 2021:** **LSE, Dept. of Stats** London, UK
- **Nov 2021:** **Algorithms & Comp. Intensive Inference Seminars, Univ. Warwick, Dept. of Stats** Coventry, UK
- **Mar 2021:** **Special Interest Group on ML & Dynamical Systems, Alan Turing Institute** London, UK
- **Sep 2020:** **Symposium on ML & Dynamical Systems, Fields Institute** Toronto, Canada
- **2020:** **IEEE Int. Symp. on Info. Theory** CA, USA ; **Pompeu Fabra Univ., Dept. of Econ.** Barcelona, Spain

POSTGRADUATE SUPERVISION / EXAMINATION

PhD Supervisor: Moe Kuchemann-Scales (Maths & Stats Dept. Lancaster University - Oct 2020–2025), **PhD Examiner:** Mathieu Molina (ENSAE - Sep 2025), Romain Chor (Univ. Gustave Eiffel - Sep 2025), Sung-Hyuk Pang (Univ. Reims - Jun 2023), Evrard Garcelon (ENSAE - Dec 2022), Alexander Fisch (Maths & Stats, Lancaster Univ. Oct 2020), Ciara Pike-Burke (Maths & Stats, Lancaster Univ. Feb 2019)

REFEREEING

Journals & Conferences: ESAIM: Probability & Statistics, IEEE Trans. Info. Theory, JMLR, Journal of Statistical Theory and Practice, ALEA, ICML, COLT, NeurIPS, AI&Stats, ISIT, **Research Funding:** Research Foundation Flanders (FWO), Swiss National Science Foundation, Research Excellence Council of Hungary

TEACHING

ENSAE, France: Information Theory for Machine Learning (2025–present), Apprentissage Statistique Appliqué (2022–present), Statistics 1 (2022–present), Business Data Challenge Supervision (2022–present), Séminaire de Modélisation Statistique (2022–present); **Ecole Polytechnique, France:** Statistiques 2A formation ingénieur (2025 – present), *10 séances de PC*; **Maths & Stats Lancaster Univ., UK:** Machine Learning (2016–2022), Probability & Stochastic Processes (2019), Financial Stochastic Processes (2015–2018, 2020–2022), Project Skills (2015–2022), MSc/MSci Supervision (2015–2022)

ACADEMIC LEADERSHIP & ENGAGEMENT

ENSAE, France (2022 – present) Comités d'enseignement et de recherche, Conseil d'école; **Maths & Stats, Lancaster Univ., UK** (2015 – 2022) Director of UG Studies, Academy for PhD Training in Statistics (APTS) Executive & Advisory Committee, Lancaster Univ. Open Days Rep., International Teaching Partnership (ITP) Moderator, Equality & Diversity Committee, Postgraduate Research Tutor, Computing Committee

OTHER SKILLS

Programming	Languages	Music
Python, Matlab, R, C/C++, GO, Java	English *(native)* French *(bilingual)*	Classical Piano RCM Gr-10