Julien Chhor

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Experience

Research

Toulouse School of Economics **Sep. 2023 – Current**
Assistant Professor. *Toulouse, France*

Harvard University **Sep. 2022 – Current**
Postdoctoral Fellow. Advised by Rajarshi Mukherjee and Subhabrata Sen *Boston, MA, USA*

CREST/ENSAE: PhD in Mathematical Statistics **Sep. 2019 – Aug. 2022**
Advised by Alexandre Tsybakov *Palaiseau, France*

OvGU Magdeburg **Apr. 2019 – Aug. 2019**
Research intern in Mathematical Statistics. Advised by Alexandra Carpentier *Magdeburg, Germany*

Michigan State University **Apr. 2018 – Aug. 2018**
Research intern in Bayesian Statistics. Advised by Frederi Viens *Michigan, USA*

Teaching

Toulouse School of Economics **2024**
Stochastic Methods for Optimization and Sampling. *Toulouse, France*

ENSAE Paris **Sep. 2019 – May 2022**
Teaching assistant: Measure Theory, Advanced Statistics, Nonparametric Statistics, Optimization, Online Learning and Aggregation, Machine Learning. *Palaiseau, France*
Ranked among the top 1% of ENSAE teachers (lecturers and professors) regarding pedagogical quality

ENSAE Paris **May 2021 and 2022**
Examiner in Mathematics for the oral entrance exams *Palaiseau, France*
Member of the recruiting committee for fourth-year students from Ecole polytechnique to join ENSAE.

Miscellaneous

Société Générale **Jun. 2017 – Aug. 2017**
Intern in credit risk modelling *La Défense, France*

Education

MVA (Mathematics, Vision and Learning) **Sep. 2018 – Aug. 2019**
Research-oriented master in Computer Vision and Machine Learning. Diploma awarded with highest honors *ENS Cachan, France*

ENSAE Paris **Sep. 2018 – Aug. 2019**
Spec. Statistics and Machine Learning *Palaiseau, France*

Ecole polytechnique **Sep. 2015 – Aug. 2019**
Mathematics, Physics, Computer Science, Spec. Applied Mathematics *Palaiseau, France*

Lycée Louis-le-Grand **Sep. 2013 – Jul. 2015**
Two-year intensive program in Mathematics and Physics, preparing for the entrance exams to the French Grandes Ecoles for scientific studies *Paris, France*

Publications

Sharp local minimax rates for goodness-of-fit testing in multivariate binomial and Poisson families and in multinomials
Julien Chhor, Alexandra Carpentier (2022) *Mathematical Statistics and Learning.*

Robust Estimation of Discrete Distributions under Local Differential Privacy
Julien Chhor, Flore Sentenac *Conference on Algorithmic Learning Theory 2023.*
arXiv:2202.06825

Sparse Signal Detection in Heteroscedastic Gaussian Sequence Models: Sharp Minimax Rates
Julien Chhor, Rajarshi Mukherjee, Subhabrata Sen *Bernoulli, 2023*

Benign overfitting and adaptive nonparametric regression
Julien Chhor, Suzanne Sigalla, Alexandre Tsybakov (2024) *Probability Theory and Related Fields*

Goodness-of-Fit Testing for Hölder-Continuous Densities: Sharp Local Minimax Rates
Julien Chhor, Alexandra Carpentier (2021) arXiv:2109.04346 *To appear in Bernoulli*

Preprints

Generalized multi-view model: Adaptive density estimation under low-rank constraints
Julien Chhor, Olga Klopp, Alexandre Tsybakov (2024) arXiv:2404.17209
Locally sharp goodness-of-fit tests for high-dimensional counts
Subhodh Kotekal, Julien Chhor, Chao Gao (2024) arXiv:2409.08871

Invited talks

Benign overfitting and adaptive nonparametric regression
Journées de statistiques, Bordeaux, May 2024
Robust Estimation of Discrete Distributions under Local Differential Privacy
Invited Session on Robust statistics and differential privacy, JSM 2023, Toronto
Robust Estimation of Discrete Distributions under Local Differential Privacy
Stat 300 Seminar, Harvard University, USA, March 2023
Robust Estimation of Discrete Distributions under Local Differential Privacy
Conference on Algorithmic Learning Theory, Singapore, February 2023
Benign overfitting and adaptive nonparametric regression
Toulouse School of Economics, March 2023
Benign overfitting and adaptive nonparametric regression
Bocconi University, Milan, Italy, January 2023
Benign overfitting and adaptive nonparametric regression
Meeting in Mathematical Statistics, CIRM Luminy, France, December 2022
Benign overfitting and adaptive nonparametric regression
Potsdam Statistics Seminar, November 2022
Benign overfitting and adaptive nonparametric regression
Harvard University, October 2022
Robust Estimation of Discrete Distributions under Local Differential Privacy
University of Potsdam, Germany, Mai 2022
Goodness-of-fit testing for multinomials and densities: sharp local minimax rates
Meeting in Mathematical Statistics (Dec. 2020), CIRM Luminy, France
Minimax Testing in Random Graphs
Statistics-Econometrics-Machine Learning Seminar (2019) CREST/ENSAE, France

Research visits

University of Chicago, May 2023

Humbolt University, July 2024

Paris School of Economics, October 2024

University of Chicago, October 2024

Professional Service

Reviewer for Test (2019)
Reviewer for the Annals of Statistics (2023-2024)
Reviewer for Bernoulli (2023-2024)
Reviewer for Information and Inference (2023)
Reviewer for JMLR (2024)

Awards

Leibnitz student, Oberwolfach Mathematical Institute.

Research quality bonus (Bonus qualité recherche), awarded by Toulouse School of Economics, 2024