Julien Chhor

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Experience

Research

Harvard University — **Sep. 2022 – Current**
Postdoctoral Fellow. Advised by Rajarshi Mukherjee and Subhabrata Sen — *Palaiseau, France*

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

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 *Accepted to conference on Algorithmic Learning Theory 2023.*
arXiv:2202.06825

Preprints

Sparse Signal Detection in Heteroscedastic Gaussian Sequence Models: Sharp Minimax Rates
Julien Chhor, Rajarshi Mukherjee, Subhabrata Sen (2022) arXiv:2211.08580

Benign overfitting and adaptive nonparametric regression
Julien Chhor, Suzanne Sigalla, Alexandre Tsybakov (2022) arXiv:2206.13347

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

Invited talks

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

Professional Service

Reviewer for Test (2019)
Reviewer for the Annals of Statistics (2023)
Reviewer for Bernoulli (2023)

Awards

Leibnitz student, Oberwolfach Mathematical Institute.