

Sunny Wang

PHD STUDENT · STATISTICS

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Education

École Nationale de la Statistique et de l'Analyse de l'Information (ENSAI)

PHD APPLIED MATHEMATICS (STATISTICS)

• Advisor: Dr. Valentin Patilea

Rennes, France

October 2021 - ...

Toulouse School of Economics

MSC STATISTICS & ECONOMETRICS

• Mention Très Bien (Highest Honours)

Toulouse, France

August 2019 - October 2021

Publications

Adaptive Functional Principal Components Analysis (with V. Patilea, N. Klutchnikoff);

Forthcoming: Journal of the Royal Statistical Society, Series B

PREPRINTS

Structural adaptation via directional regularity: rate accelerated estimation in multivariate functional data (with O. Kassi);
arxiv:2409.00817; *Under Review at Journal of Machine Learning Research*

Rate accelerated inference for integrals of multivariate random functions (with V. Patilea); arXiv:2412.08533

Professional Experience

2021 **Research Intern**, CREST-ENSAI (Supervisors: V. Patilea & E. Solea)

2020 **Research Intern**, Institute for Advanced Study in Toulouse (Supervisor: P. Seabright)

2018 **Research Intern**, Institute for Advanced Study in Toulouse (Supervisor: P. Seabright)

2017 **Intern**, Nest Ventures

2014-2015 **Project Manager**, Tech startup

Conferences

UPCOMING

December 2024. *Fast rate integral estimation for multivariate random functions*. CMStatistics 2024, London, United Kingdom

December 2024. *Fast rate integral estimation for multivariate random functions*. ICSDS 2024, Nice, France

PAST

August 2024. *Directional Regularity*. IMS World Congress, Bochum, Germany

June 2024. *Functional scores inference*. ISNPS, Braga, Portugal

April 2024. *Directional Regularity*. JSTAR, Rennes, France

March 2024. *Directional Regularity*. FDAWorkshop, Lille, France

December 2023. *Adaptive Functional Scores*. CMStatistics 2023, Berlin, Germany

November 2023. *Adaptive Functional Principal Components Analysis*. HKBU Seminar, Hong Kong

November 2023. *Adaptive Functional Principal Components Analysis*. NUS Seminar, Singapore

July 2023. *Adaptive Functional Principal Components Analysis*. JdS Sfds, Brussels, Belgium

May 2023. *Adaptive Functional Principal Components Analysis*. ATMS Workshop, Leuven, Belgium

December 2022. *Adaptive Functional Principal Components Analysis*. CMStatistics, London, UK

September 2022. *Adaptive Functional Principal Components Analysis*. GOFCP, Rennes, France

Teaching Experience

2023-2024	Parallel Computing in R , Lecturer	<i>ENSAI, France</i>
2023-2024	Introduction to R Programming , Lecturer	<i>ENSAI, France</i>
2024	Missing Data , Tutorial Instructor	<i>ENSAI, France</i>
2023-2024	Functional Data Analysis , Guest Lecturer	<i>ENSAI, France</i>
2022-2024	Multivariate time series analysis , Tutorial Instructor	<i>ENSAI, France</i>
2022-2024	Survival Analysis , Tutorial Instructor	<i>ENSAI, France</i>

Software

`direg` <https://github.com/sunnywang93/direg>, R package for directional regularity

`FDAdapt` <https://github.com/sunnywang93/FDAdapt>, R package for adaptive FPCA

Miscellaneous

Language Skills: English (Native), Mandarin (Limited Working Proficiency), French (Conversational Proficiency)

Citizenship: Singapore