Sunny Wang

PhD Student · Statistics

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Education

École Nationale de la Statistique et de l'Analyse de l'Information (ENSAI) *Rennes, France*
PhD Applied Mathematics (Statistics) *October 2021 - …*
- Advisor: Dr. Valentin Patilea

Toulouse School of Economics *Toulouse, France*
MSc Statistics & Econometrics *August 2019 - October 2021*
- Mention Très Bien (Highest Honours)

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

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, Begium

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	*ENSAI, France*
2023-2024	**Introduction to R Programming**, Lecturer	*ENSAI, France*
2024	**Missing Data**, Tutorial Instructor	*ENSAI, France*
2023-2024	**Functional Data Analysis**, Guest Lecturer	*ENSAI, France*
2022-2024	**Multivariate time series analysis**, Tutorial Instructor	*ENSAI, France*
2022-2024	**Survival Analysis**, Tutorial Instructor	*ENSAI, France*

Software

`direg`	**https://github.com/sunnywang93/direg**, R package for directional regularity
`FDAdapt`	**https://github.com/sunnywang93/FDAdapt**, R package for adaptive FPCA

Miscallenous

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

Citizenship: Singapore