

# 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

### SUBMITTED

Structural adaptation via directional regularity: rate accelerated estimation in multivariate functional data (with O. Kassi);  
arxiv:2409.00817

Adaptive Functional Principal Components Analysis (with V. Patilea, N. Klutchnikoff);  
arxiv:2306.16091

### IN PROGRESS

Rate accelerated inference for integrals of multivariate random functions (with V. Patilea)

## 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

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

## Miscellaneous

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

Citizenship: Singapore