

Sunny Wang

PHD STUDENT · STATISTICS

ENSAI, 51 Rue Blaise Pascal, 35170 Bruz, France

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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

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

UNDER FINALIZATION

Directional Regularity: Achieving faster rates of convergence in multivariate functional data (with O. Kass)

IN PROGRESS

Inference for functional scores (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

UPCOMING

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

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

PAST

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

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

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|-----------|--|---------------|
| 2023 | Parallel Computing in R , Lecturer | ENSAI, France |
| 2023 | Introduction to R Programming , Lecturer | ENSAI, France |
| 2023 | 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 |

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

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

Citizenship: Singapore