Sunny Wang

POSTDOCTORAL RESEARCH FELLOW · STATISTICS & MACHINE LEARNING

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Employm	ent	
Nanyang Tec	Research Fellow HNOLOGICAL UNIVERSITY (NTU) Hemant Tyagi	Singapore September 2025
Education	1	
PHD APPLIED • Advisor: Dr.	Ale de la Statistique et de l'Analyse de l'Information (ENSAI) MATHEMATICS (STATISTICS) Valentin Patilea ptive functional data analysis, with applications to sports modelling	Rennes, France October 2021 - May 2025
MSc Statistic	nool of Economics CS & ECONOMETRICS Pes Bien (Highest Honours)	Toulouse, France August 2019 - October 2021
Singapore M BSc Economi	anagement University CS	Singapore August 2014 - January 2019
Publication	ons	
•	ctional Principal Components Analysis (with V. Patilea, N. Klutchnikoff); of the Royal Statistical Society Series B: Statistical Methodology, 87(3), 603-6	31
	ted inference for integrals of multivariate random functions (with V. Patilea I, Computational Statistics & Data Analysis	a);
PREPRINTS		
	aptation via directional regularity: rate accelerated estimation in multivar 19.00817 (Major Revision, Bernoulli)	iate functional data (with O. Kassi)
Professio	nal Experience	
2021 2020 2018 2017 2014-2015	Research Intern, Institute for Advanced Study in Toulouse (Supervisor: P. Seabright) Research Intern, Institute for Advanced Study in Toulouse (Supervisor: P. Seabright) Intern, Nest Ventures	
Comeren	ccs, sciilliais	

January 2025. Structural adaptation in multivariate functional data. Bocconi Job Market Seminar, 2025, Milan 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 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

https://github.com/sunnywang93/integratefda, R package for fast rate integral approximation integratefda

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