

Constantin Vaillant Tenzer Graduate student in Cognitive sciences, Mathematics and Deep Learning @ENS-PSL.

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cvt8

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constantinvaillanttenzer

Education		
2020-2024	Diploma of the ENS Cognitive Sciences, Mathematics, and	<i>École Normale Supérieure - PSL</i> Computer Science
2021-2024	MSc in Cognitive Sciences Cogmaster, specialization in modeling	ENS-UPC-EHESS
2023-2024	MSc in Mathematics Shortlisted for the external aggregation	Sorbonne Université on in Mathematics (session 2024).
2018-2021	BSc in Mathematics Completed alongside CPGE, followed	Sorbonne Université by L3 courses at ENS.
2018-2020	Classes préparatoires aux Grandes CPGE Also attended high school (2015- Baccalauréat specializing in Mathe See https://en.wikipedia.org/wi grandes_Ãl'coles.	Lycée Henri IV 2018), obtained the Scientific

Teaching Experiences

Since 2021	Teaching Associate in Statistics		Université Paris Cité		
2022	Mathematics Examiner in CPGE		Lycée Michelet, Vanves		
2021	Introduction to Mathematics Co	ourses	Cours aux Ernest, ENS-PSL		
2020-2021	Private Tutor for CPGE Students Sciences	in Mathema	atics, Physics, and Industrial		
Since 2019	Rock-swing dance teacher House of New York	Lycée Hen	ri IV, ENS-PSL, International		

Research Experiences

Since 2021	A statistical physics approach to the exploration-exploitation paradigm			
	in adaptive human behavior	LNC2 (INSERM, ENS-PSL)		
	Supervised by Prof. Etienne Koechlin - M1 a	nd M2 thesis. PDEs, dynam-		
	ical systems, online experiment programming, deep learning.			

2023 Applied Mathematics in Behavioral Finance Columbia University in the City of New York

Supervised by Prof. Gur Huberman. PDEs, stochastic processes, complex analysis. 2 articles in progress.

2021 How humans decide to trust someone or not

Jean Nicod Institute (CNRS, ENS-PSL, EHESS)

Supervised by Prof. Jean-Baptiste André and Julien Lie. Honest signaling theory and game theory. Article in preparation.

2021 Optimal Transport and Urban Planning Université Paris Saclay

Supervised by Prof. Bertrand Maury, Bachelor thesis.

Modeling Sustainable and Profitable Fishing 2019-2020 Lycée Henri IV

Mathematics TIPE project. Differential systems, optimization.

Skills

French (native), English (C2, proficiency, Cambridge certified), Russian Languages (B1, intermediate).

Programming Python (includes numpy, scipy, panda, pytorch, matplotlib, seaborn, scikit-learn, psychopy), LTFX, Java, HTML, CSS, Javascript (includes Psy-

choJS), linux shell (familiar with Archlinux, Debian servers and NixOS).

Certifications Entrepreneurship (Ministerial certificate), first aid (PSC1), mental health first aid.

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Conferences

March 2022	Poster at the forum	of Cognitive	sciences in Paris	s on mv wo	ork on trust

June 2022 Poster at the forum of the Federation of European Neuroscience Societies (FENS) in Paris on Exploration-exploitation dilemma.

May 2024 General public talk "Trust me it's easy" during the festival Pint of Science in Paris.

May 2024 Poster presentation on Exploration-exploitation dilemma at the conference "Neuroscience and AI" organized by the French Neuroscience Society in Bordeaux.

Working Papers

All working papers can be found on my Google scholar page: https://scholar.google.com/citations?user=ddfMh1cAAAAJ&hl=fr.

October 2020 "Mathematics of Sustainable and Profitable Management of Fisheries Resources"

June 2021 "Optimal Transport and Urban Planning" with Leo Wang and Supervised by Bertrand Maury.

February 2022 "Mesh denoising"

June 2022 "Language emergence with a dislexic receiver" with Inès Ben Haj Kacem and Hugo Ninou.

Professional association and commitments

May 2024 Jury member of the French Young Mathematicians Tournament (TFJM2)

Since 2022 Member of the French neuroscience society and of the Federation of European Neuroscience Societies (FENS)

Other Professional Experiences

2022-2023 Deputy Project Manager for Disruptive Innovation and Technological Prospects *Directorate General of Enterprises - Ministry of Economy and Finance*

2021-2022 Elected Member of Executive and Pedagogical Councils Department of Cognitive Studies at ENS-PSL

2017-2018 Summer Camp Counselor Camp Olson YMCA (Minnesota, USA)

Associative Experiences

Since 2021 Founder and Co-President of the Writing Club at ENS

2021-2022 President of the Cheese Club at ENS

2021 Co-Chief Organizer of *la Nuit de la Rue d'Ulm* (gala event and festival)

2012-2018 Director of the High School Newspaper at Henri IV and Founder of the Middle School Newspaper at Victor Duruy

Non-Academic Interests

Piano, violin, trumpet (with the ENS brass band) - both classical and jazz, lyric singing. Composition.

Horseback riding (level 5).

Swing dance, 6-count and 4-count rock, waltz, salsa, and Argentine tango.