

Constantin Vaillant Tenzer Graduate student in Machine learning, Mathematics and Cognitive Sciences @ENS-PSL.

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constantinvaillanttenzer

### Education

2020-2025	Diploma of the ENSÉcole Normale Supérieure - PSLCognitive Sciences, Mathematics, and Computer Science	
2024-2025	MSc in Machine Learning and Applied I University Master 2 Maths-Vision-Learning (MVA)	1
2021-2024	MSc in Cognitive Sciences Cogmaster. Highest honors.	ENS-UPC-EHESS
2023-2024	MSc in Mathematics Preparing the Agrégation.	Sorbonne Université
2018-2021	BSc in Mathematics Completed alongside CPGE, followed b	Sorbonne Université by L3 courses at ENS.
2018-2020	Classes préparatoires aux Grandes CPGE Also attended high school (2015-2 Baccalauréat specializing in Mathe See https://en.wikipedia.org/wij grandes_Ãlcoles.	<i>Lycée Henri IV</i> 2018), obtained the Scientific

## **Teaching Experiences**

Since 2024	Teaching Associate in Mathemat	ics	Université PSL
2021 - 2023	Teaching Associate in Statistics		Université Paris Cité
2022	Mathematics Examiner in CPGE		Lycée Michelet, Vanves
2021	Introduction to Mathematics Co	urses	Cours aux Ernest, ENS-PSL
2020-2021	Private Tutor for CPGE Students Sciences	in Mathema	tics, Physics, and Industrial
Since 2019	Rock-swing dance teacher House of New York	Lycée Henr	i 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 and M2 thesis. PDEs, dynam- ical systems, online experiment programming, deep learning.
2023	Applied Mathematics in Behavioral Finance <i>Columbia University in the City of New York</i> Supervised by Prof. Gur Huberman. PDEs, stochastic processes, com- plex 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 signal- ing theory and game theory. Article in preparation.
2021	Optimal Transport and Urban PlanningUniversité Paris SaclaySupervised by Prof. Bertrand Maury, Bachelor thesis.
2019-2020	Modeling Sustainable and Profitable FishingLycée Henri IVMathematics TIPE project. Differential systems, optimization.
Skills	
Languages	French (native), English (C2, proficiency, Cambridge certified), Russian (B1, intermediate).
Programming	Python (includes numpy, scipy, panda, pytorch, matplotlib, seaborn, scikit-learn, psychopy), $\[mathbb{E}T_EX$ , SQL, Java, OCaml, HTML, CSS, Javascript (includes PsychoJS), linux shell (familiar with Archlinux, Debian servers and NixOS). Network engineering.

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#### Certifications

Entrepreneurship (Ministerial certificate), Cambridge advanced English, first aid (PSC1), mental health first aid, driving license.

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Conferenc	es	
March 2022	Poster at the forum of Cognitive sciences in Paris on my work on trust.	
June 2022	Poster at the forum of the Federation of European Neuroscience Soci- eties (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 So ciety in Bordeaux.	
Working P	apers	
See also my	Google scholar page: https://tinyurl.com/yc5f3uyj.	
October 2020	0 "Mathematics of Sustainable and Profitable Management of Fisherie Resources"	
June 2021	"Optimal Transport and Urban Planning" with Leo Wang and Supervise by Bertrand Maury.	
February 202	22 "Mesh denoising"	
June 2022	"Language emergence with a dislexic receiver" with Inès Ben Haj Kacer and Hugo Ninou.	
Profession	al associations 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 or European Neuroscience Societies (FENS)	
Other Prof	essional 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	
Associativ	e 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-Acad	emic Interests	

Piano, violin, trumpet (with the ENS brass band) - both classical and jazz, lyric singing. Composition. Creative writing. Horseback riding (level 5). East-coast swing (also taught this dance), west-coast swing, 6-count and 4-count rock, waltz ((also taught this dance), salsa, and Argentine tango.