



📅 25 years old

📍 France

Computer skills

Programming languages

Python (NumPy, Pandas, scikit-learn, PyTorch, Transformers), R, C, C++, Java, Haskell, Unix programming

Certifications

SAS, Matlab, Excel

Microsoft Office

Word, Excel, PowerPoint

LinkedIn page

 raphael-razafindralambo



Raphaël RAZAFINDRALAMBO

PhD Student in Centre Inria d'Université Côte d'Azur

Graduated from the MVA Master's program at Paris-Saclay, I'm pursuing a PhD in improving generation from diffusion models.

Experience

PhD Researcher

Since Feb. 2025 [Centre Inria d'Université Côte d'Azur](#) Valbonne, Sophia-Antipolis
Funded by 3IA.

- **When Are Two Scores Better Than One? Investigating Ensembles of Diffusion Models**, published with video at *Transactions on Machine Learning Research (TMLR)*, 2026. Oral presentation at *56es Journées de Statistique (SFdS)*, Marseille, and poster at *Working Group on Model-Based Clustering*, Nice, 2025.
- **Beyond Mixtures and Products for Ensemble Aggregation: A Likelihood Perspective on Generalized Means**, published at *Uncertainty in Artificial Intelligence (UAI)*, 2026.
- **Towards More General Control of Diffusion Models Using Jeffrey Guidance**, Preprint.

Research Intern & Engineer

From May 2024 to Jan. 2025 [Centre Inria d'Université Côte d'Azur](#) Valbonne, Sophia-Antipolis

- Joined the Maasai research team at Inria, working under the supervision of Pierre-Alexandre Mattei, Damien Garreau, and Remy Sun.
- Conducted research on ensemble methods applied to deep generative diffusion models, combining state-of-the-art analysis with practical implementations and theoretical insights.
- Implemented models using Python and PyTorch, leveraging Inria's high-performance and parallel computing resources for large-scale model training.

Data Scientist Intern

From Jun. 2023 to Sept. 2023 [Malakoff Humanis](#) Paris

- Analysis of the problem context, including a detailed state-of-the-art review in optical fraud detection.
- Exploration of datasets, Data processing with Dataiku and Python Pandas library.
- Development of prototypes (machine learning for classification task) with scikit-learn and performance evaluation through team efforts.
- Analyzed, visualized, and presented results with PowerBI.

Education

PhD Student in Computer Science

Since Feb. 2025 [Université Côte d'Azur](#) Nice

Research in diffusion models for image generation. Supervised by Pierre-Alexandre Mattei, Frédéric Precioso, and Rémy Sun.

M.Sc., Applied Mathematics (2nd year)

From Sept. 2023 to Sept. 2024 [ENS Paris-Saclay](#) Gif-sur-Yvette

Mathématiques, Vision, Apprentissage (MVA)

Research projects:

- Pseudoinverse-guided diffusion models for inverse problems
- Hit-and-Run Algorithms for Generating Multivariate Distributions
- Molecule Retrieval with Natural Language Queries
- Deep Learning for Lost Packets Completion in a Voice Signal
- Change-Point Detection Using Spatiotemporal Data
- K-means on PCA

Relevant courses: Generative Models for Image, Computational Statistics, Deep Learning and Practice, Convex optimization, Introduction to Probabilistic graphical models and deep generative models

M.Sc., Applied Mathematics (1st year)

From Sept. 2022 to May 2023 [Université Paris Dauphine - PSL](#) Paris

- Master Thesis: Study of statistical and computational guarantees of K-Means