

Statement of Research Interests

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I have a broad interest in mathematics and Machine Learning (and AI). My interest in these sciences is deeply rooted in my passion for solving real-world problems and contributing to better the world. I am fascinated by the numerous possibilities of applying these domains in various sectors, from Biology to finance to robotics.

My intellectual journey and curiosity has led me to specific areas that have captivated me and inspired me to deepen my knowledge and skills for further studies.

Concerning maths, my interests revolve around several key areas. Firstly, Statistics, particularly Functional Data Analysis, represents a field rich in practical applications and discoveries. I am drawn to the ability to model complex heterogeneous data, such as functional data (data that evolve over a continuum, e.g images,temporal curves), to extract meaningful insights and serve for good decision policies. Stochastic Processes and Probability are also areas that have piqued my interest due to their importance in modelling randomness and random phenomena, encountered in Biology, Finance, for example.

In machine learning, my ambition would be to delve deeper into Deep Learning, especially Computer Vision. The ability of Deep Learning algorithms to extract features from visual or textual data and to be applicable to several real-world problems fascinates me and I would also like to investigate for further studies.

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