

# Alexandre MENECEUR - Applied mathematics graduate

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ameneceur



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ameneceur.github.io

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## Education **Master "Mathématiques de la modélisation/Mathematics of Modelling"**

*Sorbonne-Université, ENPC, École Polytechnique – with honours*

Mathematics of ecology and living environments major

2024

Functional analysis, control theory, probabilistic numerical methods, statistics and learning, ecological modelling

## **Master "Mathématiques fondamentales et appliquées/Fundamental and applied Mathematics"**

*Université Paris-Cité – with honours*

2022

## **Licence de Mathématiques/BSc in Mathematics**

*Université Paris-Cité – with honours*

2020

## Internships **M2 Internship (6 months)**

*supervised by Martin Rosalie (LGDP) and Vincent Lignon (CDED)*

Research Intern in the DySSPO : Dynamique Salariales et Sociales dans les Pyrénées-Orientales project.

Tasks included :

- Production of a software producing ODE systems from economic time series
- Study of the said time series
- Production of a software for the topological analysis of a chaotic attractor
- Study of macroeconomic theoretical background
- Production of a deterministic model

## **"Introduction to research" course (M1)**

*supervised by Christian Retoré (LIRMM)*

Syntactic analysis of sentences in natural languages

## **Summer Internship (L1)**

*supervised by Mathilde Herblot (IMJ-PRG)*

Game theory, Nash equilibria, Brouwer fixed point theorem

Publications	<b>Economic models and scenarios: from time series to the topology of a chaotic attractor</b> Forthcoming publication	
Miscellaneous	<b>Mathematics private lessons</b> <i>with middle school and high school students</i> since 2021  <b>Mathematics tutoring</b> <i>with L1 and L2 students, under the supervision of Paul Laurain (IMJ-PRG)</i> Université Paris-Cité, 2020-2022	
Languages and Skills	French (native), English (advanced), Portuguese (advanced) $\text{\LaTeX}$ , Markdown, HTML/CSS/PHP, Office Python ( <b>pandas</b> , <b>TensorFlow</b> , <b>PyTorch</b> ), R, C++, Java, SQL Linux environment proficiency	
References	Martin ROSALIE LGDP Université de Perpignan Via Domitia martin.rosalie@univ-perp.fr	Vincent LIGNON CDED Université de Perpignan Via Domitia vincent.lignon@univ-perp.fr