

Alexandre MENECEUR - Applied mathematics graduate



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	Economic models and scenarios: from time series to the topology of a chaotic attractor TBP	
Miscellaneous	Mathematics private lessons <i>with middle school and high school students</i> since 2021 Mathematics tutoring <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) \LaTeX , Markdown, HTML/CSS/PHP, Office Python (pandas , TensorFlow , PyTorch), 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