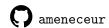
Alexandre Meneceur - Applied mathematics graduate









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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)

Syntaxic 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

 $with\ middle\ school\ and\ high\ school\ students$

since 2021

Mathematics tutoring

with L1 and L2 students, under the supervision of Paul Laurain (IMJ-PRG)

Université Paris-Cité, 2020-2022

Languages French (native), English (advanced), Portuguese (advanced)

and Skills LATEX, Markdown, HTML/CSS/PHP, Office

Python (pandas, TensorFlow, PyTorch), R, C++, Java, SQL

Linux environment proficiency

Martin Rosalie Vincent Lignon

References LGDP CDED

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