

Mahli Reinette

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Paris, Lyon¹

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 laboitenoire

in reimah

</> Python, R

0745044022

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LANGUAGES

• Languages

French

English

Vietnamese(soon)

2026

native language

(in progress)March. 2026

Following sections items are clickable

EDUCATION

• ISFA: Institut de Science Financière et d'Assurances

Lyon, France

Actuary degree : Actuary school

(in progress)Sept. 2024 – Jun. 2027

- Applied mathematics: stochastic calculus, financial mathematics.
- Actuarial science: actuarial mathematics, options pricing, portfolio theory, provisioning (non life), collective insurance.
- Fundamental mathematics: stochastic process, inferential statistics, unsupervised learning, Lebesgue theory, probabilities theory, optimization.
- Computer science: stochastic simulations, data mining, factorial analysis, clustering, Python, advanced R, C ++, VBA, SAS, LaTeX, excel.
- Models: machine learning, generalize linear model, linear regression, logistic regression.
- Economy: risk economy, econometry, bank economy, game theory, micro-economy.
- Others skills: accounting, french constitutional law, corporate law, eu IT law.

• ENU

Hanoi, Vietnam

Exchange : National Economics University, Department of Financial Mathematics

Jan. 2026 – Mai. 2026

- Finance: financial theory, financial analysis, portfolio theory.
- Actuarial science: actuarial mathematics.
- Models: generalize linear model.
- Economy: insurance economy.
- Others skills: costs accounting, labour law, insurance law.

• CPGE

France

MPSI - MP

Sept. 2021 – Jun. 2024

- Fundamental mathematics: algebra, linear algebra, fonctionnal analysis, probability, series, topology.
- Computer science: language theory, graph theory, binary trees, logical theory, automata theory, Python, Ocaml, LaTeX, SQL.
- Physics: mechanic, chemistry, quantum mechanic(basics).

PROJECTS

• T E R (work in progress) ²

Feb. 2026 – Present

Mathematics(work in progress)³: stochastic calculus, actuarial mathematics, statistics, financial mathematics

Language: Python, LaTeX, Markdown(jupyter)

- **Stochastic Provisioning Model⁴** 2025 – 2026
Mathematics⁵: markov chains, poisson process, continuous stochastic variables
Methods⁶: monte carlo, variance reduction, walker tables, reject method, survive function inversion, POO
 ruin probability, tkinter interface, multi-thread
 Language: Python, LaTeX, Markdown(jupyter)
- **Acces Final Project⁷** 2025 – 2026
Project redaction: possible trajectory in the Paris subway
 Language: SQL, LaTeX
- **TIPE(reshearh project)⁸ : Data scrapping for language processing** 2023 – 2024
Mathematics & theory: language theory, automata, graph theory, algebra(magma)
 IT: automata, data scrapper, data scroller, NLP, machine learning, multi-thread, tkinter gui, POO
 Language: Python, LaTeX
- **TIPE(reshearh project) : Procedural city generator** 2022 – 2023
Mathematics & theory: probabilities theory, conditional probabilities
 IT: PIL, tkinter gui, POO, random simulations
 Language: Python

PERSONAL PROJECTS

- **2D Game engin(work in progress)⁹** 2026 – Present
Mathematics: geometry, linear algebra, automata
 Language: Python, LaTeX, Markdown(jupyter)
- **Table role-play game << discord bot >>¹⁰** 2023 – 2024
Mathematics: automata
 Language: Python

EXPERIENCE

- **Mathematics Tutor** Lyon, France
Mathematics tutor August 2024 - Present
 - logic theory, functional analysis, Python programming ¹¹
- **First year intership** PAP, Guadeloupe
Intership Mai 2025 - Sept 2025
 - Accounting direction.
 - RH direction.
 - Commercial direction.

OTHER PROGRAMMING TOOLS

- **C++:** POO, interfacage R, parallelization.
- **VBA:** vba, userform.
- **Deep learning frameworks:** Keras, Tensorflow.
- **R:** dplyr, ggplot, tidyr, ade4, dbscan, optics.
- **Python:** jupyter lab, json, plotly, sci-kit, beautifull soup, PIL, pandas, discord, custom tkinter.
- **LaTeX:** minipages, commands, colorboxes, href.
- **SAS:** logistic regression.
- **java:** POO.
- **git:** git, github, gitmind.

CONTACTS

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ANNEXES

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| 1 | ¹ <i>Lyon, 219 rue Marcel Merieux, 69007</i> |
| 2 | ² https://github.com/LaboiteNoire/TER |
| 3 | ³ https://github.com/LaboiteNoire/TER/blob/main/pr%C3%A9sentation/pr%C3%A9sentation.pdf |
| 4 | ⁴ https://github.com/LaboiteNoire/techniques-de-simulations- |
| 5 | ⁵ https://github.com/LaboiteNoire/techniques-de-simulations-/blob/main/Pr%C3%A9sentation.pdf |
| 6 | ⁶ https://github.com/LaboiteNoire/techniques-de-simulations-/blob/main/Methodes_otpimisees.ipynb |
| 7 | ⁷ https://github.com/LaboiteNoire/Pr-sentation/blob/main/Pr%C3%A9sentation%20Acces.pdf |
| 8 | ⁸ https://github.com/LaboiteNoire/Pr-sentation/blob/main/cr0004.pdf |
| 9 | ⁹ https://github.com/LaboiteNoire/LolaEngine |
| 10 | ¹⁰ https://github.com/LaboiteNoire/LoBot_02/tree/main/wskp0001 |
| 11 | ¹¹ https://github.com/LaboiteNoire/Pr-sentation/blob/main/chapitre%205.pdf |