

# Mahli Reinette

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Paris, Lyon<sup>1</sup>

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 laboitenoire

 in reimah

</> Python, R

0745044022

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## LANGUAGES

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### • Languages

2026

French

native language

English

Vietnamese(soon)

(in progress) March. 2026

*Following sections items are clickable*

## EDUCATION

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### • 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

Hanoï, 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, functionnal 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

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### • T E R (work in progress)<sup>2</sup>

Feb. 2026 – Present

Mathematics(work in progress)<sup>3</sup>: stochastic calculus, actuarial mathematics, statistics, financial mathematics

Language: Python, LaTeX, Markdown(jupyter)

- **Stochastic Provisioning Model<sup>4</sup>** 2025 – 2026  
*Mathematics<sup>5</sup>: markov chains, poisson process, continuous stochastic variables*  
*Methods<sup>6</sup>: 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 Project<sup>7</sup>** 2025 – 2026  
*Project redaction: possible trajectory in the Paris subway*  
*Language: SQL, LaTeX*
- **TIPE(reshearch project)<sup>8</sup> : 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(reshearch project) : Procedural city generator** 2022 – 2023  
*Mathematics & theory: probabilities theory, conditional probabilities*  
*IT: PIL, tkinter gui, POO, random simulations*  
*Language: Python*

## PERSONAL PROJECTS

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

## EXPERIENCE

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

## OTHER PROGRAMMING TOOLS

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- **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, colorboxs, href.
- **SAS:** logistic regression.
- **java:** POO.
- **git:** git, github, gitmind.

## CONTACTS

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## ANNEXES

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1      1 Lyon, 219 rue Marcel Merieux, 69007

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](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](https://github.com/LaboiteNoire/LoBot_02/tree/main/wskp0001)

11     11 <https://github.com/LaboiteNoire/Pr-sentation/blob/main/chapitre%205.pdf>