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laboitenoire
reimah
</> Python, R
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Languages

- **Languages** 2026
  French *native language*
  English
  Vietnamese(soon) *(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** 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

- **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 Model**[4] 2025 – 2026
  Mathematics[5]*: markov chains, poisson process, continuous stochastic variables*
  Methods[6]*: 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**[7] 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, colorboxs, href.
- **SAS:** logistic regression.
- **java:** POO.
- **git:** git, github, gitmind.

Contacts

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Annexes

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