Thiery Eméric Gbaguidi

Talence (33400)
✉ *thierry-emeric.gbaguidi@math.u-bordeaux.fr*
🌐 *https://emericgbaguidi.github.io*

Higher Education

Sept. 2024– **PhD in Applied Mathematics**, *University of Bordeaux*, France,
Topic: Stochastic algorithms in high dimensional with applications in statistical learning
Supervisors: Bernard Bercu and Luis Fredes.

2022–2024 **MSc in Statistical and Stochastic Modeling**, *University of Bordeaux*, France

2018–2021 **Bachelor's degree**, *University of Parakou*, Benin,
○ *Bachelor's degree in Applied Statistics (2021)*
○ *Bachelor's degree in International Economy and Finance (2021)*

2015–2018 **High school**, *Lycée Mathieu Bouké*, Benin

Teaching experience

2025– 2026 **Probability & Statistics (Bachelor)**, *University of Bordeaux*

2024– 2026 **Mathematical Tools (Bachelor)**, *University of Bordeaux*

2024– 2025 **Scientific Methodology (Bachelor)**, *University of Bordeaux*

Other professional experiences

Feb. 2024–Jul. 2024 **Internship**, *Institut de Mathématiques de Bordeaux, University of Bordeaux*, France,
Topic: Study of the asymptotic normality of the SAGA algorithm.
Supervisors: Bernard Bercu and Luis Fredes

Jul. 2021–Aug. 2021 **Internship**, *Cotton Research Institute*, Benin,
Topic: Modeling data on cotton insect pests in Benin (with R).

Aug.2020–Sept.2020 **Internship**, *National Institute of Agricultural Research in Benin* , Benin,
Topic: Collection and processing of agricultural data (with Stata and R).

Publications

2025 **A stochastic gradient descent algorithm with random search directions,**
19 pages.Transactions on Machine Learning Research.

Preprints

2025 **An hybrid stochastic Newton algorithm for logistic regression.**
Submitted 12/2025. Arxiv 2512.01790.

2024 **On the SAGA algorithm with decreasing step.** *with B. Bercu and L. Fredes.*
Submitted 10/2024. Arxiv 2410.03760.

Talks (Conferences, Workshops)

2026 **7th annual edition of the workshop ai4industry**, *Bordeaux INP*, (Bordeaux)

2025 **Journées de Probabilités**, *Institut de Mathématiques de Marseille*, (Marseille)

2025 **Colloquium MARGAUx PhD Days 2025**, *La Rochelle*

2024 **Journées de Probabilités**, *Institut de Mathématiques de Bordeaux*, (Bordeaux)

Other training courses

2021   **Various one-off training**, *OpenClassrooms*, Distance learning
- Module 1: Explore your data with unsupervised algorithms.
- Module 2: Create powerful data models.
- Module 3: Get started with machine learning.
- Module 4: Discover Python libraries for data science.
- Module 5: Get started with Python for data analysis.
- Module 6: Implement your relational databases with SQL.

Languages skills

French   Native.

English   Intermediate.

Computational Skills

- R
- SQL
- IBM SPSS Statistics.
- Python
- MATLAB
- Stata