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📍 : LMAH, Université Le Havre Normandie, France.

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Current Position

- **Temporary Teaching and Research Assistant (ATER)**, UFR Sciences et Techniques, Université Le Havre Normandie (since September 2025).
- **Ph.D. student in Statistics** (Since october 2022), Université Le Havre Normandie, France.
Thesis title : *Extreme Quantile Regression Based on Conditional GEV Models and Generalized Random Forests*.
Supervisors : [Alexandre Berred](#), [Cyrille Bertelle](#), Laurent Amanton.
Affiliation : Laboratoire de Mathématiques Appliquées du Havre (LMAH).

Research Interests

Extreme value theory, extreme quantile regression, statistical learning, simulation-based inference, Statistical modelling, Applied probability.

Education

- **Ph.D. student in Statistics** (Since october 2022), LMAH, Université Le Havre Normandie.
- **M.Sc. in Statistics and Probability** (2021–2022), Institut de Mathématiques et des Sciences Physiques (IMSP), UAC.
- **B.Sc. in Fundamental Mathematics** (2019–2020), Faculté des Sciences et techniques, UAC.

Publications and Preprint

- Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. (2025). Generalized random forest for extreme quantile regression. *Communications in Statistics – Simulation and Computation*, 1–24. <https://doi.org/10.1080/03610918.2025.2543854>.
- Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. Penalized estimation of GEV parameters for extreme quantile regression. *Under review*.
- Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. Consistency of weighted maximum likelihood estimator for extreme quantile regression. *to be submitted*.

Communications

1. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Extreme quantile regression using generalized random forests and block maxima approach*. [International Conference on Extreme Value Analysis, Probabilistic and Statistical Models and Their Applications \(EVA\)](#), University of North Carolina at Chapel Hill, USA, June 22–27, 2025.
2. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Penalized estimation of GEV parameters for extreme quantile regression*. [56^e Journées de la Société Française de Statistique](#), Campus Saint-Charles, Aix-Marseille Université, France, June 2–6, 2025.
3. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Combining Extreme Value Theory and Random Forests for High Quantile Regression*. [17^e Journée de la Fédération Normandie Mathématiques](#), INSA Rouen Normandie, France, May 26, 2025.

4. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Generalized random forest approach for GEV extreme quantile regression*. [Rencontres des Jeunes Chercheurs Africains en France \(6th edition\)](#), Institut Henri Poincaré, Paris, France, December 12–13, 2024.
5. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Generalized random forest for extreme quantile regression*. [26th International Conference on Computational Statistics \(COMPS-TAT\)](#), University of Giessen, Germany, August 27–30, 2024.
6. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Parameter estimation of the generalized extreme value distribution using generalized random forest methods*. [16^e Journée de la Fédération Normandie Mathématiques](#), Université de Rouen Normandie, France, July 5, 2024.
7. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *GEV-extremal random forest*. [55^e Journées de Statistique de la Société Française de Statistique \(SFDS\)](#), Université de Bordeaux, Campus de la Victoire, France, May 27–31, 2024, pp. 1098–1105.
8. Vidagbandji, M. L., Berred, A., Bertelle, C., & Amanton, L. *Quantile regression : an approach based on the GEV distribution and machine learning*. [French Regional Conference on Complex Systems](#), Université Le Havre Normandie, France, May 31–June 2, 2023, pp. 515–518.

Academic Internships

- **May–August 2022** : Research internship (M2–IMSP).
Modeling spatial extremes using normal mean–variance mixtures.
Supervised by Aliou Diop.
- **June–August 2021** : Research internship (M1–IMSP).
M-estimators and Z-estimators.
Supervised by Carlos Ogouyandjou and Freedath DJIBRIL MOUSSA.

Professional Experiences

- **2024–present** : Co-organizer of the LMAH PhD students’ seminar, Université Le Havre Normandie, France.
- **December 2024** : Co-organizer of the MIIS and PSIME Doctoral School Day, IUT Le Havre, Quai Frissard, Université Le Havre Normandie, France.
- **September 2024** : Member of the organizing committee of the Bio Dynamics Days 2024 seminar, LMAH, Université Le Havre Normandie, France.
- **Since 2023** : Teaching Associate, UFR of Science and Technology, Université Le Havre Normandie, France.
- **May 2023** : Member of the local organizing committee of the French Regional Conference on Complex Systems (FRCCS 2023), LITIS, Université Le Havre Normandie, France.

Teaching Experiences

- **2025–2026** :
 - Analysis 1 for 2nd year undergraduate students in Mathematics and Computer Science (30 h).
 - Probability for 2nd year undergraduate students in Mathematics and Computer Science (20 h).
 - Algebra for 1st year undergraduate students in Mathematics and Computer Science (50 h).
 - Basic Mathematical Tools 1 & 2 for 1st year undergraduate students in Chemistry and Life Sciences (2 × 25 h + 17 h).

- Mathematics for Computer Science for 2nd year undergraduate students in Computer Science (30 h).

- **2024–2025 :**

- Practical sessions in L^AT_EX for 1st year undergraduate students in Mathematics and Computer Science (6 h).
- Basic Mathematical Tools 1 & 2 for 1st year undergraduate students in Chemistry and Life Sciences (26 h).

- **2023–2024 :**

- Practical sessions in L^AT_EX for 1st year undergraduate students in Mathematics and Computer Science (6 h).
- Basic Mathematical Tools 1 & 2 for 1st year undergraduate students in Chemistry and Life Sciences (26 h).

Scholarships & Funding

- **2022–2025 :** PhD project at LMAH, Université Le Havre Normandie, France.
- **2021–2022 :** Master's scholarship recipient, African Center of Excellence (CEA–SMIA).
- **2017–2020 :** Government scholarship of Benin for undergraduate studies, UFR Sciences et Techniques, Université d'Abomey-Calavi, Benin.