LAATABI MOHAMED NAJIB

Doctoral student in Mathematics and Applications

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25 ans
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Ph.D. Candidate in Mathematics specializing in stochastic and deterministic modeling applied to biological systems. Committed researcher and educator with a strong background in numerical analysis (MATLAB, Python) and a passion for making complex mathematical concepts accessible to students.

PROFESSIONAL EXPERIENCE

Teaching Assistant (TD) – General Mathematics

Part-time/Contract

Academic Year 2025/2026 — Faculty of Sciences, Rabat

- Conducting weekly tutorials (TD) in General Mathematics, covering core undergraduate subjects: Linear Algebra, Geometry, and Analysis.
- Responsible for explaining complex theoretical concepts and leading practical problem-solving sessions to consolidate student understanding.
- Actively supporting first-year students in mastering fundamental mathematical techniques essential for future scientific studies.

Instructor – Digital Skills

Part-time/Contract

Academic Year 2024/2025 — Faculty of Sciences, Rabat

- 60 hours of practical instruction (TD/Practical Work) for the "Digital Skills" module (Computer Science Department).
- Taught essential digital competencies, covering the Microsoft Office Suite (Word, Excel, PowerPoint), the history of computing, and fundamental principles of Artificial Intelligence (AI) and web architecture.
- Provided hands-on training to undergraduate students, bridging theoretical concepts with practical technological application.

Mathematics Instructor – Intensive Sessions

Part-time/Contract

August 2024 - October 2024 — IZECSI Center, Rabat

- Instructed undergraduate students in Analysis and Algebra through specialized courses and intensive tutorials.
- Clarified complex mathematical concepts and led practical exercise sessions to ensure student mastery of fundamental principles.
- Enhanced student performance in university examinations by providing targeted review sessions and academic support.

Master Thesis Project (PFE) / Research Internship

Subject: Stochastic Model of the Chemostat

February 2024–July 2024 — Faculty of Sciences, Rabat

Developed and analyzed a stochastic chemostat model, specifically investigating microbial growth dynamics, biomass production. Validated the theoretical framework using MATLAB numerical simulations and quantitatively compared stochastic vs. deterministic dynamics to assess the impact of environmental fluctuations on system equilibria.

EDUCATION AND DEGREES OBTAINED

Ph.D. Candidate – Applied Mathematics

2024 – Present — Faculty of Sciences, Rabat

- Laboratory of Mathematical Analysis and Applications (LAMA).

Master's Degree in Analysis and Applications. Specialization: Mathematical Modeling

2022–2024 — Faculty of sciences Rabat

Bachelor's Degree in Fundamental Mathematics

2019-2022 — University of Kenitra

High School Diploma, Life and Earth Sciences

2019 — Assoul High School

TECHNICAL SKILLS

Word

Matlab | Excel | python | C & C++ | LaTeX

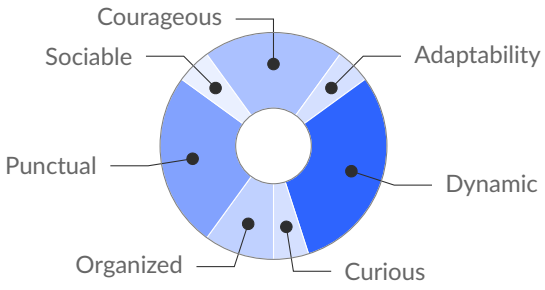
LANGUES

Amazigh
Arabic
French
English

INTERESTS

Cinema | Football | Travel

QUALITIES



PROFESSIONAL SKILLS

Master's in Analysis and Applications

Faculty of Sciences, Rabat

2022 – 2024

Applied Mathematics & Modeling

- Stochastic Processes & Brownian Motion
- Mathematical Modeling (Biological & Physical Systems)
- Qualitative Study of Dynamical Systems
- Dynamic Optimization & Optimal Control

Analysis & Simulation

- Partial Differential Equations (PDEs)
- Functional Analysis & Measure Theory
- Numerical Analysis & Scientific Computing

Computational & Technical Tools

- **Programming:** Python (NumPy, Matplotlib), MATLAB.
- **Document Preparation:** LaTeX, Beamer, TikZ/PGFPlots

PROGRAMMING & TOOLS