

Dr. Asma HADJOU BELAID

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Diplomas

- 2018** **PhD** Applied Mathematics in Evolutionary and Biodiversity Sciences, ISEM, Univ. of Montpellier, France.
Title: Demography and adaptive responses of plant populations to environmental change.
- 2015** **Master** Mathematics: Probability and Statistics. Univ. of Tlemcen, Algeria.
Title: Parametric Estimation in a Small Diffusion.
- 2013** **License** Applied Mathematics: Probability and Statistics. Univ. of Tlemcen, Algeria.
Title: Parametric Estimation.
- 2010** **Baccalaureate** Science series, Tlemcen, Algeria. Honors.

Teaching

- 2025/2026** Tutorial Machine Structure 1, Semester 1, L1 Math, Department of Mathematics, Faculty of Science, UABT. Tutorial Analyse 2, Semester 2, L1 ST Ingenious, Department of ST, Faculty of Technology, UABT.
- 2024/2025** Tutorial Statistics, Semester 2, L1 Info, Department of Computer sciences, Faculty of Science, UABT.
- 2023/2024** Tutorial in Machine Structure 1, Semester 1, L1 Math, Tutorial Statistics, Semester 2, L1 Math, Department of Mathematics, Faculty of Science, UABT.

Tutorial in Algebra 1, Semester 1, L1 Computer Science, Department of Computer Science, Faculty of Science, UABT.
- 2022/2023** Tutorial in Machine Structure 1 and 2, Semester 1 and 2, L1 MI, Tutorial Statistics, Semester 2, L1 Math, Department of Mathematics, Faculty of Science, UABT. Tutorial in Machine Structure 1, Semester 1, L1 Computer Science Engineers, Department of Computer Science, Faculty of Science, UABT.

- 2021/2022** Tutorial in Machine Structure 1, Semester 1, Courses and Tutorial Machine Structure 2, Semester 2, L1 MI, Department of Mathematics, Faculty of Science, UABT.
- 2020/2021** Integrated courses/tutorials in Machine Structure 1 and 2, L1 MI, Semester 1 and Semester 2, Department of Mathematics, Faculty of Science, UABT.
- 2019/2020** Practical work in Formal Calculus, L1 MI, Semester 2, Department of Mathematics, Faculty of Science, UABT, Tutorial in Statistics, L1 MI, Semester 2, Department of Mathematics, Faculty of Science, UABT.
- Course/ Tutorial Math1, L1 Architecture, Semester 1, Department of Architecture, Faculty of Technology, UABT. Course/ Tutorial General Mathematics, L1, Welded Assemblies, Semester 1, Department of Mechanical Engineering, Faculty of Technology, UABT.
- 2018/2019** Tutorial Statistics, L1 MI, Semester 2, Department of Mathematics, Faculty of Science, UABT. Tutorial in Analysis/Algebra, L1 Semester 2, Higer school of applied sciences, Tlemcen.
- 2017/2018** Tutorial and practical work session in Biostatistics applied to biology and the R language, Master in Health Biology, 26h, Sept. – Dec. 2017, Univ. of Montpellier.
- Course-Seminar: Population Management, Master in Biology and Ecology, 1h30, March 2017, Univ. of Montpellier.
- 2016/2017** Practical session in Biostatistics applied to biology and the R language, Master in Biology and Health, 9 pm, Sept. – Dec. 2016, Univ. of Montpellier
- 2013/2015** Private lessons in mathematics at the terminal level.

Publications/Communications

2025 ICMAM'25, 2nd International Conference Mohand Moussaoui on Applied Mathematics and Modeling. December 15-16, 2025, University 8 Mai 1945, Guelma, Algeria. Online participation through an oral presentation entitled “Stochastic Stability Analyses of a Diffusion Drift System with the Lyapunov Function” HADJOU BELAID Asma. Conference Link: <https://sites.google.com/view/icmam2025/home?authuser=0>

2025 MCWA2025, INTERNATIONAL CONFERENCE ON MATHEMATICS AND COMPUTERS WITH APPLICATIONS, 16-18 July 2025, Istanbul, Türkiye. Online participation through an oral presentation entitled “A Discussion on Stochastic Stability of a Diffusion Population Model”. HADJOU BELAID Asma. Conference Link: <https://icomath.com/?target=sayfalar&id=18#primary>

2024 Journal article, Gulf Journal of Mathematics, Volume 18, Issue 1 (2024) 218-234. A. Hadjou Belaid, "MODELLING ENVIRONMENTAL STOCHASTICITY IN A STAGE-STRUCTURED POPULATION APPLYING STOCHASTIC DIFFERENTIAL EQUATIONS". Doi: <https://doi.org/10.56947/gjom.v18i1.2402>

2024 CNMA2024 National Conference, 4th National Conference of Mathematics and Applications 07-08 December 2024, Mila, Algeria. Online participation through an oral presentation entitled "An analytical and numerical study of a Matrix Population Model by introducing the Brownian motion". A. Hadjou Belaid. Conference link: <https://sites.google.com/centre-univ-mila.dz/cnma2024/home>

2024 ICOM2024, 8th International Conference On Mathematics: An Istanbul Meeting for World Mathematicians. 09-11 July 2024, Istanbul, Turkey. Online participation through an oral presentation entitled "A Stochastic Approach to Modelling Random Fluctuations in Stage-Structured Populations", A. Hadjou Belaid. Conference link: <https://icomath.com/?target=sayfalar&id=2>

2022 IWAM2022 Conference (1st International Workshop on Applied Mathematics), 06-08 December 2022, University of Constantine 1, Algeria. Face-to-face participation through an oral presentation entitled "Modeling population dynamics with stochastic differential equations", A. Hadjou Belaid. Conference link: <https://sites.google.com/view/iwam2022/home>

2019 Maghreb Colloquium TAMTAM2019 (Trends in Mathematical Applications in Tunisia Algeria Morocco), 23-27 February 2019, Tlemcen, Algeria. Face-to-face participation through an oral presentation entitled "Integral Projection Models: Construction and application in population dynamics and evolution", A. Hadjou Belaid. Conference link: <https://tamtam2019-univ-tlemcen.weebly.com/accueil.html>

2018 Journal article, Biol.Conserv.223, (2018) 19–33, A. Hadjou Belaid, S. Maurice, H. Fréville, D. Carbonella, E. Imbert. "Predicting population viability of the narrow endemic Mediterranean plant *Centaurea corymbosa* under climate change". Doi: <https://doi.org/10.1016/j.biocon.2018.04.019>

Computer science

- **Software R:** Modeling, Statistical analysis of data.
- **Latex:** Writing scientific documents
- **Opal:** Online Course Design
- **Moodle:** Distance learning platform
- **Zotero:** Bibliographic management.
- **Other Software:** WorkPlace, LibreOffice, Excel, PowerPoint, Word.

Languages

- **Arabic:** Mother tongue.
- **French :** Read, written, spoken (TCF, Level B2).
- **English :** Level B2.

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 https://www.researchgate.net/profile/Asma_Hadjou_Belaid