Abdelhamid Gouasmia

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Nationality: Algerian

Current Position

Associate Professor, Department of Mathematics, Faculty of Sciences and Technology, Mohamed Cherif Messaadia University.

Areas of Specialization

- Nonlinear partial differential equations.
- Local and non-local operators.
- Parabolic and elliptic equations.

Education

- **2022:** PhD in Mathematical Modeling and Numerical Analysis, ENS Kouba, Algeria.
- **2016:** Master's Degree in Mathematics and Applications, Université de Pau et des Pays de l'Adour, Pau, France.
- **2016:** Magister's Degree in Mathematical Modeling and Numerical Analysis, ENS Kouba, Algeria.
- **2011:** Bachelor's Degree in Mathematics, ENS Kouba, Algeria.
- **2006:** BACCALAUREATE of Science, Cheria-Tebessa, Algeria.

Appointments Held

- **Since 2024:** Lecturer, Mohamed Cherif Messaadia University, Souk Ahras, Algeria.
- **2018–2024:** Lecturer, Larbi Ben M'Hidi University, Oum El-Bouaghi, Algeria.
- **2011–2018:** Mathematics Teacher, Cheria High School, Tebessa, Algeria.

Administrative Responsibilities

- **From 2019:** Supervision of several Master's theses on the topics of PDE Analysis and Functional Analysis at Larbi Ben M'Hidi University, Oum El-Bouaghi, Algeria.

Teaching Experience

Ben M'Hidi University, Oum El-Bouaghi, Algeria:

- **Guided Exercises (TD):** Mathematical Statistics – Department of Biology.
- **Guided Exercises (TD):** Biostatistics – Department of Biology.
- **Lectures and Guided Exercises (TD):** Numerical Analysis – Department of Material Sciences.

- **Lectures and Practical Sessions (TP):** Matlab Programming – Master 1 in Applied Physics, Department of Material Sciences.
- **Lectures and Guided Exercises (TD):** Theory of Distributions and Applications in PDEs – 1st and 2nd Year Master's in Applied Mathematics.

Mohamed Cherif Messaadia University, Souk Ahras, Algeria:

Publications

Journal Articles

- **2024:** A. Gouasmia; A singular system involving mixed local and non-local operators. *Boundary Value Problems*, 2024(1):126.
- **2022:** A. Gouasmia; Nonlinear fractional and singular systems: Nonexistence, existence, uniqueness, and Hölder regularity. Math. Methods Appl. Sci., (2022), 1-21.
- **2022:** J. Giacomoni, A. Gouasmia, A. Mokrane; Discrete Picone inequalities and applications to non-local and non-homogeneous operators. *Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat.*, 116, 100.
- **2021:** J. Giacomoni, A. Gouasmia, A. Mokrane; Existence and global behavior of weak solutions to a doubly nonlinear evolution fractional p-Laplacian equation. *Electron. J. Diff. Equations*, (09), 1-37.