ABOUT ME

I am a math researcher working on Partial Differential Equations (PDEs) and their applications. My areas of interest cover linear and non-linear parabolic and elliptic equations of many natures, presenting different local and non-local operators. Recently I have also broadened my line of work by studying PDE models applied to biology.

FIELDS OF RESEARCH

- · Large-time behaviour in Linear Diffusion.
- Non-linear Diffusion.
- · Coupling Models.
- Travelling Waves in Non-linear Diffusion.
- PDEs applied to biology.

GRANTS & SCHOLARSHIPS

Marie Curie Scholarship -Project GHAIA (Oct 2018).

SKILLS

- Spanish Native
- English Cı
- French Cı
- Software developement
- Python
- Teaching (university level)

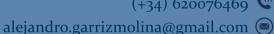
Alejandro Gárriz Molina

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EDUCATION

- Doctor Cum Laude in Mathematics by the Universidad Autónoma de Madrid under the supervision of Professor Fernando Quirós.
- · Masters Degree in Mathematics and Applications by the Universidad Autónoma de Madrid.
- Degree in Mathematics by the Universidad Autónoma de Madrid.
- Degree in Computer Sciences by the Universidad Autónoma de Madrid.

WORK EXPERIENCE & RESEARCH STAYS

- Post-Doctoral Researcher at the CNRS hired by the ANR-DEEV project under the direction of Professor Sepideh MIrrahimi (2021 - 2023).
- · Research stay at the Institute of Mathematics of Granada, with Professor Jose A. Cañizo (2021).
- · Doctoral researcher at the **ICMAT** (2020 2021).
- Research stay at the University of Bucharest, Romania, with Professor Liviu Ignat. (Nov 2019).
- Research stay at the **Universidad de Buenos Aires**, Argentina, with Professor Julio D. Rossi. (Sep 2018 - Oct 2018).

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HIGHLIGHTED CONFERENCES AND TALKS

- RIMS Symposium Mathematical Analysis on pattern formation, propagation and interfacial phenonema November 2022, Kioto University, Japan.
- Workshop of the ANR-DEEv project Mathematical models from evolutionary biology October 2022, IMAG Université de Montpellier, France.
- V Congress of Young Researchers (Real Sociedad Matemática Española) January 2020, Universitat Jaume I, Spain.
- · VII days of Mathematical Analysis January 2020, Universidad de Alicante, Spain.
- Annual Congress of the Union Matemática Argentina (UMA) September 2018, Universidad de La Plata, Argentina.

PUBLISHED WORKS

- · Garriz, A..; Ignat, L. A non-local coupling model involving three fractional laplacians Bulletin of Mathematical Sciences. Vol. 11, No. 02, 2150007 (2021).
- · Garriz, A. **Propagation of solutions of the Porous Medium Equation with reaction and their travelling wave behaviour**. Nonlinear Analysis, Volume 195, June 2020, 111736.
- · Garriz, A..; Rossi, J. D.; Quirós, F. **Coupling local and nonlocal evolution equations**. Calc. Var. Partial Differential Equations, 59 (4), 24pp, 2020.
- · Garriz, A. Singular integral equations with applications to travelling waves for doubly nonlinear diffusion. Sent to journal. Available at arXiv:2001.11109.
- · Du, Y.; Garriz, A..; Quirós, F. **Travelling-wave behaviour in doubly nonlinearreac-tion-diffusion equations**. Sent to journal. Available at arXiv:2009.12959.
- · Audrito, A.; Garriz, A.; Quirós, F. Convergence in relative error for the Porous Medium equation in a tube. Sent to journal. Available at arXiv:2204.08224.