

# Eduardo Fernández Saiz

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## EMPLOYMENT

- Assistant Professor, Department of Mathematics, CUNEF Universidad (2023–present).
- Assistant Professor, Universidad San Pablo CEU (2022–2023).
- Lecturer, Universidad Europea de Canarias (2022).
- Lecturer, Universidad Alfonso X El Sabio (2021–2022).
- Predoctoral Researcher, Universidad Complutense de Madrid (2016–2020).
- Titul. Superior, Universidad de Burgos (2015–2016).

## EDUCATION

- PhD in Mathematical Research, Universidad Complutense de Madrid, 2021.
- Master's Degree in Advanced Mathematics, Universidad Complutense de Madrid, 2015.
- Bachelor's Degree in Mathematics, Universidad Complutense de Madrid, 2014.

## FIELDS OF INTEREST

Lie theory, Lie systems, Symplectic geometry

## PUBLICATIONS

- Hamiltonian stochastic Lie systems and applications. *Journal of Physics A*, 2025.
- Generalized Buchdahl equations as Lie-Hamilton systems. *AIMS Mathematics*, 2025.
- Solutions by quadratures of complex Bernoulli differential equations. *Axioms*, 2023.
- Exact solutions and superposition rules for Hamiltonian systems generalizing stochastic SIS epidemic models. *AIMS Mathematics*, 2023.

- Poisson-Hopf deformations of Lie-Hamilton systems revisited. Journal of Physics A, 2021.

## **SELECTED ACADEMIC HONOURS AND GRANTS**

- UCM Contract for Training Researchers.
- Youth Guarantee Program Contract, Universidad de Burgos.
- Sobresaliente Cum Laude in Doctoral Thesis (2021).

## **SELECTED PRESENTATIONS**

### **CONFERENCES**

- XII International Symposium on Quantum Theory and Symmetries, Praga, 2023.
- The 13th Young Researchers Workshop, Coimbra, 2018.
- X International Symposium “Quantum Theory and Symmetries”, Varna, 2017.

### **SEMINARS**

- Seminar 'Un enfoque geométrico a los sistemas de Lie', Universidad Complutense de Madrid, 2021.
- Seminar 'Sistemas de Lie y sus aplicaciones', UCM, 2018.
- Seminar 'Symmetries and Differential Equations', Universidad de Burgos, 2016.

## **PROFESSIONAL ACTIVITIES**

- Member of the GMC Network (Geometry, Mechanics, and Control).
- Organizer of international conferences (Workshop on Nonlinear Integrable Systems, 2016; X Workshop of Young Researchers in Mathematics, 2016).
- Referee for the Journal of Geometric Mechanics.