

David Leonardo Ramos Salamanca

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🏠 <https://davidramossal.github.io/>

Education

- 2020 – present **M.S in Physics**
Universidad Industrial de Santander, Colombia
Thesis: *Study of magnetic skyrmions in square lattice antiferromagnets*
Advisor: Pierre Pujol
- 2014 – 2019 **B.S in Physics**
Universidad Industrial de Santander, Colombia
Thesis: *Physical acceptability of compact objects*
Advisor: Luis A. Núñez

Research Experience

- 2022-02 – 2022-05 **Research intern**
Université Paul Sabatier - Laboratoire de Physique Théorique, France
Duties performed: implemented optimizations to parallel tempering Monte Carlo code for the simulation of classical spin models with phase transitions
Supervisor: Pierre Pujol
- 2021-08 – 2021-10 **Research intern**
Latin American Alliance for Capacity Building in Advanced Physics (Online)
Duties performed: implemented simulated annealing optimization for the solution of non-linear boundary value problems
Supervisor: Pierre Pujol

Conference participation

- 2022 **12th International Conference on Magnetic and Superconducting Materials**
University of Duisburg-Essen, Germany
Oral presentation: *Stability of antiferromagnetic skyrmions*
- 2020 **22nd Chilean Symposium of Physics**
Universidad Tecnológica Metropolitana, Chile (Online)
Poster presentation: *Physical acceptability of neutron stars with realistic equations of state*
- 2019 **6th Colombian Congress of Astronomy and Astrophysics**
Universidad de Antioquia, Colombia
Poster presentation: *Stellar structure and stability of compact objects with numerical equations of state*

Awards

- 2020 **Outstanding bachelor's thesis distinction**
Universidad Industrial de Santander, Colombia

References

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| Pierre Pujol | Professor at Université Paul Sabatier | pierre.pujol@irsamc.ups-tlse.fr |
| Luis A. Núñez | Professor at Universidad Industrial de Santander | lnunez@uis.edu.co |