

# David Leonardo Ramos Salamanca

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🏠 <https://davidramossal.github.io/>

## Education

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- 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

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- 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

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- 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

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

## References

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| <b>Pierre Pujol</b>  | Professor at Université Paul Sabatier            | <a href="mailto:pierre.pujol@irsamc.ups-tlse.fr">pierre.pujol@irsamc.ups-tlse.fr</a> |
| <b>Luis A. Núñez</b> | Professor at Universidad Industrial de Santander | <a href="mailto:lnunez@uis.edu.co">lnunez@uis.edu.co</a>                             |