

Jorge Romero

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Doctoral Studies

- 2019-2023 **Dual Doctoral Programme in Experimental Nuclear Physics**, *University of Liverpool & University of Jyväskylä*
Thesis: *Investigation of exotic nuclei close to the proton drip line using the state-of-the-art MARA-LEB facility.*

University Studies

- 2018-2019 **Masters in Nuclear Physics**, *University of Seville (US)*, Seville (Spain)
Average Grade: 82.7%
Thesis: *Characterisation of a Total Absorption Spectrometer to measure β decay in ^{100}Sn at Riken Nishina Center* - Grade: 93%
- 2014-2018 **Degree in Physics**, *Universitat de València (UVEG)*, Valencia (Spain)
Average Grade: 75.1%
Thesis: *β decay in $N \sim Z$ nuclei at CERN-ISOLDE for nuclear astrophysics* - Grade: 93%
- 2016 **Student Summer Programme - IFIC**, *Instituto de Física Corpuscular- CSIC*, Valencia (Spain)
Geant4 Simulations of GSI (Darmstadt) particle detectors

Secondary Studies

- 2014 **A-Levels**, *Cambridge House Community College*, Valencia (Spain)
Mathematics - grade A*
Physics - grade A
Chemistry - grade A
- 2012 **GCSE**, *Cambridge House Community College*, Valencia (Spain)
Science - grade A*
French - grade A*
German - grade A*
1st Language English - grade A

Languages

Spanish	Native	
English	Near-native	<i>Language of Education since age 3, European C2 Certificate</i>
French	A-Level	
Italian	AS-Level	
German	AS-Level	
Catalan	B1 Level	

Publications

- 2023 **Nuclear Reaction Studies at MARA Focusing on Prospects for the New MARA-LEB Facility**, *J. Romero, et al.*, Acta Phys. Pol. B Proc. Suppl. 16.
- 2023 **Offline commissioning of a new gas cell for the MARA Low-Energy Branch**, *A. Zadornaya, J. Romero, et al.*, Nucl. Inst. Meth. B
- 2023 **In-beam γ -ray spectroscopy of ^{94}Ag** , *X. Pereira-López, et al.*, Eur Phys J A **59**, 44.
DOI:10.1140/epja/s10050-023-00950-8
- 2022 **Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed ^{149}Lu** , *K. Auranen, et al.*, Phys. Rev. Lett. **128**, 112501.
DOI:10.1103/PhysRevLett.128.112501
- 2022 **Impact of Nuclear Deformation and Pairing on the Charge Radii of Palladium Isotopes**, *S. Geldhof, et al.*, Phys. Rev. Lett. **128**, 152501.
DOI:10.1103/PhysRevLett.128.152501

Past Work Experience

Physics

- 2018, 2019 **Physics and Mathematics Substitute Teacher**, *Cambridge House Community College*, Valencia (Spain)
GCSE and A-Level Physics Teacher
- 2012–2018 **Private Tutor**
Tutor in physics, mathematics and chemistry

Volunteer Work

- 2015–2017 **Freshers Mentor**, University of Valencia (Spain)
Mentor to first year students
- 2018, 2019, 2020 **Speaker at SEMF Summer School**, *Escuela de Verano SEMF*, University of Valencia (Spain)
Talk: Introduction to the Standard Model and Feynman Diagrams
- 2016–2018 **Science Fair Volunteer**, *Feria Experimental*, University of Valencia (Spain)
Volunteer staff at a science fair aimed at secondary students
- 2015–2018 **Member of the Faculty of Physics Student Council**
2015–2017 Secretary
2017–2018 President

Computer Skills

- Programming Bash, C, Wolfram Mathematica,
Matlab, ROOT, Geant4, Python,
Lua
- Text \LaTeX , Microsoft Office
- Media Inkscape