## CURRICULUM VITAE



## PERSONAL INFORMATION

Surname and name

MORALES GALLEGOS, ELIA LIZETH

Year of birth

1986

E-mail

moralesgallegos@na.infn.it

Current position

Assistant Professor (RTD-A) Università degli Studi della Campania "Luigi Vanvitelli"

## **EDUCATION**

• Date

2012-2017

· Name and type of institute

The University of Edinburgh, Scotland, UK

Qualification

Ph.D. in Nuclear Physics

• Date

2005-2011

Name and type of institute
 Qualification

Autonomous National University of Mexico (UNAM), Mexico City, MX

Graduate diploma in Physics

Assistant Professor (RTD-A)

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# WORK EXPERIENCE

• Date

2023 - current

 Name and address of the work place entity University of Campania "Luigi Vanvitelli", Viale Abramo Lincoln n. 5 – 81100 Caserta (CE), Italy

• Type of company or institute

University

Type of jobMain responsibilities

Experiment KM3NeT. **LQS** (Local Quality Supervisor) of the CAPACITY (Campania AstroPArtiCle InfrastrucTure facility) laboratory, data analysis, coordination of the KM3NeT-HAWC (Italy-Mexico) collaboration, full-time teaching and outreach.

Date

2021 - 2023

 Name and address of the work place entity National Italian Institute of Nuclear Physics (INFN), Strada Comunale Cinthia, 80126 Naples (NA), Italy

• Type of company or institute

Research Institute

Type of job

#### Senior Postdoc Fellow

· Main responsibilities

Experiment KM3NeT. **LQS** (Local Quality Supervisor) of the CAPACITY (Campania AstroPArtiCle InfrastrucTure facilitY) laboratory, data analysis and coordination of the KM3NeT-HAWC (Italy-Mexico) collaboration.

• Date

2018-2020

 Name and address of the work place entity University of Campania "Luigi Vanvitelli", Viale Abramo Lincoln n. 5 – 81100 Caserta (CE), Italy

• Type of company or institute

University

Type of job

Postdoc fellow

Main responsibilities

Nuclear Astrophysics research projects. Analysis and data taking, design of scientific instrumentation, writing of scientific papers, implantation of 7Be for the German company ZAG

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• Name and address of the work University of Campania "Luigi Vanvitelli", Viale Abramo Lincoln n. 5 – 81100 Caserta (CE), Italy

place entity

• Type of company or institute University

Type of job Technical and scientific collaborator

• Main responsibilities Support activities for the service and upgrade of the mass recoil separator ERNA.

Development of a H target for the 23Na(p,a)20Ne

• Date 2014-2021

Name and address of the work
 University of Campania "Luigi Vanvitelli", Viale Abramo Lincoln n. 5 – 81100 Caserta (CE), Italy

place entity

Type of company or institute
 University

• Type of job **Teaching assistant**, "Physics Laboratory I" and "Physics Laboratory II"

Main responsibilities Lessons on data analysis

• Date 2012-2013

Name and address of the work
 The University of Edinburgh, School of Physics and Astronomy, James Clerk Maxwell Building,

place entity Peter Guthrie Tait Road, Edinburgh UK, EH9 3FD

• Type of company or institute University

• Type of job Teaching assistant, "Physics Laboratory I", "Physics 1B LABS", "Astronomy 1S", "Dynamics",

"Physics 2B LABS", "Maple" e "Dynamics and Vectorial Calculus"

• Date (da – a) 2011-2012

• Name and address of the work MIYMSA (Medidores Industriales y Medicos S.A.), América 181, Parque San Andrés, Coyoacán,

place entity 04030, Mexico City, MX

Type of company or institute
 Medical and nuclear research area

• Type of job Eng. of service of Nuclear Instrumentation

• Main responsibilities Maintenance, selling and repairing of nuclear instrumentation

• Date (da – a) 2010-2011

• Name and address of the work Autonomous National University of Mexico (UNAM), Av Universidad 3000, Ciudad Universitaria,

place entity Coyoacán, 04510, Mexico City, MX

• Type of company or institute University

Physicists"

Main responsibilities
 Exercises and grading of homework and tests

# MOTHER TONGUE | Spanish

# OTHER LANGUAGES

# **English**

Reading

Excellent (C2)

Writing

Excellent (C2)

Speaking

Excellent (C2)

## Italian

Reading

Excellent (C2)

Writing

Good (C1)

Speaking

Excellent (C2)

# TECHNICAL SKILLS

OS: Windows, MacOS and Linux (Ubuntu, RedHat and Scientific Linux).

Software of data analysis such as ROOT, HEALPiX, numpy, healpy, Snakemake, tmux, etc.

Programming in C, C++ and Python

Technical design, artistic design, Wordpress for web design, optics software, MonteCarlo simulations, skymaps production, etc.

Use of the pelletron tandem accelerator (CIRCE laboratory), charged particles detectors, electronics and acquisition systems, vacuum and gas systems, etc.

# ORGANISATIONAL AND MANAGERIAL SKILLS

Webpage and social manager for KM3NeT Naples since 2022

Organising committee of the XI Meeting of the Italian Groups of Experimental and Theoretical Nuclear Astrophysics. Caserta, Italy, October 2022

Editor designer of the newsletter of GIANTS since 2020

Organising committee of GIANTS (Italian Groups of Experimental and Theoretical Nuclear Astrophysics) since 2020

Organiser of the internal seminar at CIRCE Laboratory "Caffè Scientifico" since 2019

Organising committee and communication responsible of "European Researcher's Night", Caserta, 2016 – 2022

Organising committee and communication responsible of "Science Unppluged", 2019

Organising committee and communication responsible of "CIRCE open day", 2016 – 2022

# Honours and awards

National Fellowship for foreigners in experimental Physics INFN, Italy 2020

COST Short Term Scientific Mission, Edinburgh, UK 2018

CoNaCyT for Ph.D. studies in Scotland, Edinburgh, UK 2012-2016

CoNaCyT for undergrad studies, Mexico City, MX 2010

Award Juan Manuel Lozano Mejia for Undergrad thesis, Mexico City, MX 2011

#### **CONFERENCES**

- 2022 I Workshop CIR PACK. Bari, Italy, Invited talks
- 2022 XI Meeting of the Italian Groups of Experimental and Theoretical Nuclear Astrophysics. Caserta, Italy, **Invited talk**
- 2022 MidTerm Plan INFN LNGS session. L'Aquila, Italia, Participant
- 2022 Nuclear Physics in Astrophysics X. Geneve, Switzerland & Online, Poster
- 2022 Topical Meeting of IReNA FA1 and ChETEC-INFRA: Nuclear Reaction Measurements in Underground Laboratories. Roma, Italy, **Invited talk**
- 2021 16th International Symposium on Nuclei in the Cosmos. Chengdu, China & Online, Talk
- 2021 ECT\* workshop Key Reactions in Nuclear Astrophysics. Online, Participant
- 2020 106° National Congress of the Italian Society of Physics. Online, Invited talk
- 2020 IReNA FA1 workshop on stellar burning. Online, Participant
- 2019 X Meeting of the Italian Groups of Experimental and Theoretical Nuclear Astrophysics.
  Genova, Italy, Invited talk
- 2018 Nuclei in the Cosmos XV. L'Aquila, Italia, Poster
- 2017 IX Meeting of the Italian Groups of Experimental and Theoretical Nuclear Astrophysics.
  Bologna, Italy, Invited talk
- 2015 SPES one day workshop "Nuclear Astrophysics at SPES". Caserta, Italy, Participant
- 2015 Nuclear Physics in Astrophysics VII conference. York, UK, Talk
- 2014 11th Russbach School on Nuclear Astrophysics. Russbach, Austria, Talk
- 2014 XXXVII Symposium on Nuclear Physics. Cocoyoc, Mexico, Invited talk
- 2013 The ECT\* JINA workshop: Reactions involving 12C: Nucleosynthesis and Stellar Evolution. Trento, Italy, Participant
- 2013 Direct measurements in Nuclear Astrophysics with Recoil Mass separators, Inaugural workshop for ERNA at CIRCE. Caserta, Italy, Participant
- 2013 7<sup>th</sup> European Summer School on Experimental Nuclear Astrophysics. Catania, Italy, Talk
- 2011 XXXIV Nuclear Physics Symposium. Cocoyoc, Mexico, Poster
- 2009 LII National Physics Congress. Acapulco, Mexico, Poster
- 2002 Second Bi-National congress of science (Mex-USA). Matamoros, Mexico, Organising committee