

David Marcos Andrade Acosta

Curriculum Vitae

Personal data

National I.D. 100343594-6
Nationality Ecuadorian
Birth date March 13th, 1990
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Academic Background

Institution King's College London - United Kingdom
Department of Mathematics
Degree Master of Science in Theoretical Physics - 2019
Project name Supergravity and Branes (Compactificación)

Institution Escuela Politécnica Nacional - Ecuador
Department of Physics
Degree Bachelor of Science in Physics - *Cum Laude*
Project name Distribution of the Emission Times of Long GRBs with Cosmological Corrections

Work Experience

Institution YACHAY TECH UNIVERSITY - ECUADOR
Position Auxiliar Lecturer
Period November 2021 - Present
Brief Giving lectures on the subjects of Newtonian Mechanics and Laboratory in General
Description Physics.
Research activities in the topic: Interior Solutions of Stars in the context of General Relativity.

Institution UNIVERSIDAD NACIONAL DE CHIMBORAZO - ECUADOR
Position Lecturer
Period November 2020 - September 2021

Brief Description Giving lectures on the subjects of Newtonian Mechanics, Optics and Didactics in Physics.
Tutorials in the context of pre-professional practices and coordinating the process of getting the graduate degree.

Institution ESCUELA POLITÉCNICA NACIONAL - ECUADOR

Position Junior Lecturer

Period April 2015 - August 2018

Brief Description Giving support in lectures on the subjects of Classical Mechanics, Newtonian Mechanics and Modern Physics.
Collaboration in laboratory of Physics (General Physics, Optics and Modern Physics).

Institution NATIONAL INSTITUTE OF ENERGY EFFICIENCY AND RENEWABLE ENERGIES (INER) - ECUADOR

Position Technical Analyst

Period March 2015 - April 2015

Brief Description Development of mathematical models to determine uncertainties in the integrating sphere for the project "Implementation of Laboratories for the Evaluation of Energy Efficiency in Public Lighting".
Testing the intensity and luminosity of luminaries in the integrating sphere and goniophotometer.

Institution NATIONAL INSTITUTE OF METEOROLOGY AND HYDROLOGY (INAMHI) - ECUADOR

Position Technical Analyst

Period September 2014 - December 2014

Brief Description Prediction of time by using a WRF-ARW model for the research project "Time and Weather Prognostic System for Ecuadorian Landscape: Statistics and Numerical Simulation".
Determination of parameters for the best configuration of the WRF-ARW environment for weather conditions in Ecuador.

Institution ESCUELA POLITÉCNICA NACIONAL - ECUADOR

Position Teaching Assistant in the Laboratory of Physics

Period July 2013 - December 2013

Brief Description Collaboration in the lectures of Newtonian Physics, Thermal Physics, Electromagnetism and Optics.

Institution QUITO ASTRONOMICAL OBSERVATORY - ECUADOR

Position Internship

Period March 2013 - June 2013
Brief Collaboration on atmospheric and meteorology physics research by studying extreme
Description solar radiation.

Institution FOUNDATION FOR WATER PROTECTION (FONAG) - ECUADOR

Position Internship

Period March 2012 - December 2012

Brief Collaboration on data processing and quality control of data from meteorological
Description stations.

Publications

Journals N. Vasquez, A. Baquero, D. Andrade (2015) *Alternative temporal classification of*
publications *long Gamma Ray Bursts*: International Astronomical Union General Assembly, Vol. 22.

Link: <https://ui.adsabs.harvard.edu/abs/2015IAUGA..2250495A/abstract>

D. Andrade, E. D. Lopez (2014). *Studies of TEC in Ecuador using Global Positioning System (GPS) data*: Sun and Geosphere Journal, Vol. 9, 37-40.

Link: <https://ui.adsabs.harvard.edu/abs/2014SunGe...9...37A/abstract>

Presentations

Oral VI International Congress of Contemporary Education, Educational Quality and
Presentations Good Living "Formative Research in Mathematics and Physics". Universidad Nacional de Chimborazo - Ecuador (2021)

Supergravity and Compactification Theories. XVI Symposium on Physics "Computational Challenges in Contemporary Physics". Escuela Politécnica Nacional - Ecuador (2019).

Studies of TEC in Ecuador using Global Positioning System (GPS) data. United Nations/Ecuador Workshop on the International Space Weather Initiative (ISWI), Escuela Politécnica Nacional - Ecuador (2012).

Poster Distribution of the Emission Times of Long GRBs with Cosmological Corrections.
Presentation XIII Symposium on Physics and their Applications, Escuela Politécnica Nacional - Ecuador (2013).

Seminars and training courses

2021 I CONFERENCE ON TRAINING AND STRENGTHENING TEACHING MANAGEMENT, Yachay Tech University - Ecuador.

2021 XVII SYMPOSIUM ON PHYSICS, Escuela Politécnica Nacional - Ecuador.

2021 RESEARCH AND SCIENTIFIC PRODUCTION, Universidad Nacional de Chimborazo - Ecuador.

- 2019 XVI SYMPOSIUM ON PHYSICS "COMPUTATIONAL CHALLENGES IN CONTEMPORARY PHYSICS", Escuela Politécnica Nacional - Ecuador.
- 2014 III ASTROPARTICLES SCHOOL ON LAGO(LARGE APERTURE GRB OBSERVATORY): COSMIC RAYS, GRBS AND SOLAR PHYSICS, Universidad San Francisco de Quito - Ecuador.
- 2013 XIII SYMPOSIUM ON PHYSICS, Escuela Politécnica Nacional - Ecuador.
- 2012 UNITED NATIONS/ECUADOR WORKSHOP ON THE INTERNATIONAL SPACE WEATHER INITIATIVE (ISWI), Escuela Politécnica Nacional - Ecuador.
- 2012 XII SYMPOSIUM ON PHYSICS, Escuela Politécnica Nacional - Ecuador.

Languages

Spanish Native
English CEFR Level B2

Programming skills

Operating Systems Skills Linux Experience: Ubuntu, Fedora and CentOS
Programming HEAsoft, WRF-ARW, Gnuplot, qdp, LATEX, Perl, C++

Awards

Scholarship to carry on postgraduate studies under the "Convocatoria Abierta 2017"scholarship program awarded by "Secretaria de Educación Superior, Ciencia, Tecnología e Innovación"- Ecuador

Interests

General Relativity, Gravity, Compact Objects, Stellar Evolution and Early Universe
Supergravity and Branes
Quantum Field Theory

Academic and personal references

Professor Neil Lambert

Professor in Theoretical Physics at King's College London - Department of Mathematics

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Gema González, PhD

Dean of the School of Physical Sciences and Nanotechnology at Universidad de Investigación de Tecnología Experimental Yachay

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Ramón Xulvi, PhD

Principal Lecturer at Escuela Politécnica Nacional - Physics Department

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