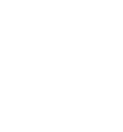
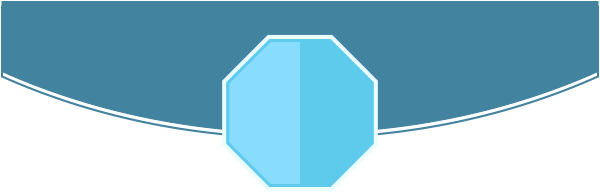
Hombre con camisa negra

Descripción generada automáticamente



HOJA DE VIDA

Orlando Andres Baquero Larriva

# Datos Personales:

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| --- | --- |
| * **Cédula de Ciudadanía o Pasaporte:** | 0103941282 |
| * **Fecha de nacimiento:** | 15 de Abril de 1986 |
| * **Nacionalidad:** | Ecuatoriana |
| * **Correo Electrónico:** | obaquero@uazuay.edu.ec |
| * **Dirección:** | Manuel Quito 4-17 |
| * **Teléfono convencional:** | +59372853236 |
| * **Teléfono móvil:** | +593961023696 |

# Formación Académica:

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| --- | --- |
| * **Título Cuarto Nivel:** | Candidato PhD en Astrofísica (Fecha de defensa de Tesis fijada para el 14/09/2022) |
| * **Título Cuarto Nivel:** | Magíster en Física |
| * **Título Tercer Nivel:** | Ingeniero de Sistemas |

# Experiencia Profesional:

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| **AÑO 2021: Universidad Complutense de Madrid** | |
| * **Experiencia 1:** | Personal Investigador de Proyectos |
| **AÑO 2014-Hasta la fecha: Universidad del Azuay** | |
| * **Experiencia 2:** | Profesor-Investigador Titular |
| **AÑO 2013: BANCO CENTRAL DEL ECUADOR** | |
| * **Experiencia 3:** | Experto en tecnologías de información |
| **AÑO 2010-2011: CONTINENTAL TIRE ANDINA** | |
| * **Experiencia 4:** | Ingeniero de Sistemas |

# Cursos y Seminarios: (5 últimos años)

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| **AÑO 2019:** | |
| * **Curso 1:** | [Wide field-of-view gamma-ray observatory in the Southern hemisphere](https://indico.lip.pt/event/523/), Lisboa, Portugal |
| * **Curso 2:** | First /PARCOS Workshop on Machine Learning and Applications to Physics, Madrid, España |
| **AÑO 2018:** | |
| * **Curso 1:** | First LST Analysis Bootcamp, Legnaro, Italia |
| **AÑO 2017:** | |
| * **Curso 1:** | “Formación de docentes virtuales” |

# Producción Científica: (5 últimos años)

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| --- | --- |
| * 1. **Publicaciones Revistas Extranjeras:** | |
| **AÑO 2022:** | |
| * **Publicación 1:** | **Proton acceleration in thermonuclear nova explosions revealed by gamma rays**. *Nature Astronomy* (2022). <https://doi.org/10.1038/s41550-022-01640-z> |
| * **Publicación 2:** | **Combined searches for dark matter in dwarf spheroidal galaxies observed with the MAGIC telescopes, including new data from Coma Berenices and Draco.** Physics of the Dark Universe**, vol. 35, 2022.** [**https://doi.org/10.1016/j.dark.2021.100912**](https://doi.org/10.1016/j.dark.2021.100912) |
| * **Publicación 3:** | **Investigating the blazar TXS 0506+056 through sharp multi-wavelength eyes during 2017-2019.** **The Astrophysical Journal, Volume 927, Number 2. 2022.** [**https://iopscience.iop.org/article/10.3847/1538-4357/ac531d**](https://iopscience.iop.org/article/10.3847/1538-4357/ac531d) |
| * **Publicación 4:** | **Multiwavelength study of the gravitationally lensed blazar QSO B0218+357 between 2016 and 2020.** Monthly Notices of the Royal Astronomical Society**,** vol. 510, no. 2, pp. 2344–2362, 2022. doi:10.1093/mnras/stab3454. <https://doi.org/10.1093/mnras/stab3454> |
| * **Publicación 5:** | **Detection of the Geminga pulsar with MAGIC hints at a power-law tail emission beyond 15 GeV.** Astronomy and Astrophysics, Volume 643, November 2020. <https://doi.org/10.1051/0004-6361/202039131> |
| * **Publicación 6:** | **Multiwavelength observations in 2019-2020 of a new very-high-energy gamma-ray emitter: the flat spectrum radio quasar QSO B1420+ 326.** International Cosmic Ray Conference. 12-23 July 2021. Berlin, Germany - Online, published March 18, 2022. Online at <https://pos.sissa.it/395/775/pdf>, id.775 |
| * **Publicación 7:** | **MAGIC detection of Geminga: an Inverse Compton tail?.** International Cosmic Ray Conference. 12-23 July 2021. Berlin, Germany - Online, published March 18, 2022. Online at <https://pos.sissa.it/395/816/pdf>, id.816 |
| * **Publicación 8:** | **Physics Performance of the Large Size Telescope prototype of the Cherenkov Telescope Array.** 37th International Cosmic Ray Conference. 12-23 July 2021. Berlin, Germany - Online, published March 18, 2022. Online at <https://pos.sissa.it/395/806/pdf>, id.806 |
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| **AÑO 2021:** | |
| * **Publicación 1:** | **Multiwavelength variability and correlation studies of Mrk 421 during historically low X-ray and γ-ray activity in 2015-2016.** Monthly Notices of the Royal Astronomical Society, Volume 504, Issue 1, pp.1427-1451 |
| * **Publicación 2:** | **MAGIC Observations of the Nearby Short Gamma-Ray Burst GRB 160821B.** [The Astrophysical Journal](https://iopscience.iop.org/journal/0004-637X), [Volume 908](https://iopscience.iop.org/volume/0004-637X/908), [Number 1](https://iopscience.iop.org/issue/0004-637X/908/1) |
| * **Publicación 3:** | **LSTOSA: Onsite processing pipeline for the CTA Larged-Sized Telescope prototype. P**roceedings of the XXX Astronomical Data Analysis Software and Systems (ADASS) conference |
| * **Publicación 4:** | **VHE gamma-ray detection of FSRQ QSO B1420+326 and modeling of its enhanced broadband state in 2020.** Astronomy & Astrophysics, Volume 647, id.A163, 19 pp. |
| * **Publicación 5:** | **Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre.** [Journal of Cosmology and Astroparticle Physics](https://iopscience.iop.org/journal/1475-7516), [Volume 2021](https://iopscience.iop.org/volume/1475-7516/2021), [January 2021](https://iopscience.iop.org/issue/1475-7516/2021/01) |
| * **Publicación 6:** | **Observation of the Gamma-Ray Binary HESS J0632+057 with the H.E.S.S., MAGIC, and VERITAS Telescopes.** The Astrophysical Journal, vol. 923, no. 2, 2021. <https://iopscience.iop.org/article/10.3847/1538-4357/ac29b7/pdf> |
| * **Publicación 7:** | **Search for Very High-energy Emission from the Millisecond Pulsar PSR J0218+4232.** The Astrophysical Journal, Volume 922, Number 2, 2021[. 10.3847/1538-4357/ac20d7](https://iopscience.iop.org/article/10.3847/1538-4357/ac20d7) |
| * **Publicación 8:** | **Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign.** The Astrophysical Journal, vol. 911, no. 1, 2021. <https://iopscience.iop.org/article/10.3847/2041-8213/abef71/pdf> |
| * **Publicación 9:** | **First detection of VHE gamma-ray emission from TXS 1515-273, study of its X-ray variability and spectral energy distribution.** Monthly Notices of the Royal Astronomical Society, vol. 507, no. 1, pp. 1528–1545, 2021.  <https://academic.oup.com/mnras/article-abstract/507/1/1528/6325192?redirectedFrom=PDF> |
| * **Publicación 10:** | **H.E.S.S. and MAGIC observations of a sudden cessation of a very-high-energy γ-ray flare in PKS 1510−089 in May 2016.** Astronomy and Astrophysics, vol. 648, 2021. doi:10.1051/0004-6361/202038949. <https://doi.org/10.1051/0004-6361/202038949> |
| * **Publicación 11:** | **Investigation of the correlation patterns and the Compton dominance variability of Mrk 421 in 2017.** Astronomy and Astrophysics, vol. 655, 2021. <https://doi.org/10.1051/0004-6361/202141004> |
| * **Publicación 12:** | **Observation of a relatively low luminosity long duration GRB 201015A by the MAGIC telescopes.** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021. <https://pos.sissa.it/395/797/pdf> |
| * **Publicación 13:** | **Searching for VHE gamma-ray emission associated with IceCube neutrino alerts using FACT, H.E.S.S., MAGIC, and VERITAS.** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021. <https://doi.org/10.22323/1.395.0960> |
| * **Publicación 14:** | **Search for gamma-ray line emission from Dark Matter annihilation in the Galactic Centre with the MAGIC telescopes.** Journal of Physics: Conference Series, Volume 2156, Issue 1, id.012063, 5pp, 2021. <https://iopscience.iop.org/article/10.1088/1742-6596/2156/1/012063> |
| * **Publicación 15:** | **Analysis of the W 44 Supernova Remnant and its surroundings with Fermi-LAT and MAGIC.** International Cosmic Ray Conference. 12-23 July 2021. Berlin, Germany - Online, published March 18, 2022. Online at <https://pos.sissa.it/395/642/pdf>, id.642 |
| * **Publicación 16:** | **Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation.** Journal of Cosmology and Astroparticle Physics, Issue 02, article id. 048 (2021). <https://iopscience.iop.org/article/10.1088/1475-7516/2021/02/048> |
| * **Publicación 17:** | **Development of an advanced SiPM camera for the Large Size Telescope of the Cherenkov Telescope Array.** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021.  <https://doi.org/10.22323/1.395.0889> |
| * **Publicación 18:** | **Status and results of the prototype LST of CTA.** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021. <https://doi.org/10.22323/1.395.0872> |
| * **Publicación 19:** | **The Cherenkov Telescope Array: layout, design and performance.** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021. <https://doi.org/10.22323/1.395.0885> |
| * **Publicación 20:** | **First follow-up of transient events with the CTA Large Size Telescope prototype”,** Proceedings of 37th International Cosmic Ray Conference PoS(ICRC2021), 2021. <https://doi.org/10.22323/1.395.0838> |
| **AÑO 2020:** | |
| * **Publicación 1:** | **Detection of the Geminga pulsar with MAGIC hints at a power-law tail emission beyond 15 GeV**. Astronomy and Astrophysics, **Volume**643, November 2020 |
| * **Publicación 2:** | Studying The Nature Of The Unidentified Gamma-Ray Source Hess J1841−055 With The Magic Telescopes. Monthly Notices Of The Royal Astronomical Society, Volume 497, Issue 3, September 2020, Pages 3734–3745 |
| * **Publicación 3:** | **Onsite Analysis for the Large Size Telescope prototype of CTA.** Contributions to the XIV.0 Scientific Meeting (virtual) of the Spanish Astronomical Society |
| * **Publicaicón 4:** | **LSTOSA: Onsite processing pipeline for the CTA Larged-Sized Telescope prototype. P**roceedings of the XXX Astronomical Data Analysis Software and Systems (ADASS) conference. <https://adass2020.es/static/ftp/P8-138/P8-138.pdf> |
| **AÑO 2019:** | |
| * **Publicación 1:** | **Monte Carlo studies of combined MAGIC and LST1 observations.** 36th International Cosmic Ray Conference (ICRC2019), held July 24th-August 1st, 2019 in Madison, WI, U.S.A. Online at <https://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=358>, id.659 |
| **AÑO 2018:** | |
| * **Publicación 1:** | **Eco-driving techniques applied in a transport fleet in Ecuador: A case study with quantifiable and measurable techniques.** Proceedings of the International Conference on Industrial Engineering and Operations Management. 2018, 2018(JUL), pp. 758–759 |
| * **Publicación 2:** | **Low Cost Data Adquisition System to Register Fuel Consumption in Diesel Engine Vehicles**. 2018 Congreso Internacional de Innovacion y Tendencias en Ingenieria, CONIITI 2018 - Proceedings |

# Dirección y/o participación en Proyectos Científicos: (5 últimos años)

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| * 1. **Proyectos Dirigidos:** | |
| * **Proyecto 1:** | Creación de la Red Ecuatoriana de Investigación en Física de Astropartículas, Rayos Cósmicos y Clima Espacial, Fase 2: Fortalecimiento y extensión de la Red |
| * **Proyecto 2:** | Desarrollo y construcción de sistemas para la medición del consumo instantáneo de combustible. |

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| * 1. **Participación en Proyectos Internacionales:** | |
| * **Proyecto 1:** | ASTRONOMIA DE RAYOS GAMMA CON MAGIC Y CTA-NORTE, PROYECTO 1 - CONTRIBUCION DE UCM-GAE referencia PID2019-104114RB-C32. Miembro del equipo de investigación. |
| * **Proyecto 2:** | Astrofísica de Altas Energías con MAGIC FPA2017-85668-P. Miembro del equipo de investigación. |
| * **Proyecto 3:** | Contribución del GAE-UCM a la puesta en marcha y primera ciencia del Observatorio CTA-NORTE acrónimo GAE CTA-NORTE referencia FPA2017-82729-C6-3-R. Miembro del equipo de investigación. |

# Idiomas

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| * **Españo** | Lengua materna |
| * **Inglés** | Escritura (Alto), Fluidez(alto), Lectura(alto) |

# Habilidades técnicas

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| * **Programación** | Python, C, C++, TCL, Perl, MatLab, Java, Visual Basic, .NET, PHP, Wolfram Mathematica. |
| * **Base de datos** | MySQL, Microsoft SQL, ORACLE, Sybase |
| * **Software de analisis de datos** | R, root, ctapipe, lstchain, gammapy, pyirf, astropy, Heasoft, Xanadu, Ftools, Fitsio, Fv, Xstar, QDP/PLT, Gnuplot. |