

Alexis Popkow

CONTACT INFORMATION	Department of Physics and Astronomy University of California, Los Angeles 3-145T Knudsen Los Angeles, CA 90095 USA	Cell: (310) 663-9365 E-mail: apopkow@ucla.edu
RESEARCH INTERESTS	gamma-ray astrophysics, particle astrophysics, astrophysics experiment, high energy physics experiment, gamma-ray astrophysics, neutrino physics	
EDUCATION	University of California, Los Angeles , Los Angeles, CA, USA PhD in Physics, Fall 2016 Thesis: <i>Very-High-Energy Astrophysical Processes in the Cygnus Region of the Galaxy</i> Advisor: Prof. Rene ONG University of California, Los Angeles , Los Angeles, CA, USA M.S. in Physics, Winter 2012 University of California, Berkeley , Berkeley, CA, USA B.A. in Physics and Astrophysics, May 2010	
RESEARCH EXPERIENCE	Graduate Student Researcher 2010-present University of California, Los Angeles Successfully proposed discovery observations of unidentified Galactic sources motivated by <i>Fermi</i> -LAT data, and took observations of those objects. Analyzed <i>Fermi</i> -LAT and VERITAS data sets and discussed scientific implications of results, primarily in the Cygnus region. Assisted with the camera upgrade of VERITAS for 5 weeks in Summer 2012. Participated in over 2 weeks of observations each year, and oversaw observations as "czar" of operations for a few weeks. Served on data quality monitoring shifts. Undergraduate Researcher 2008-2010 University of California, Berkeley Department of Nuclear Engineering - Used computer modeling to estimate the efficiency of particle detector and imaging experiment, set up and used a gamma-ray double sided strip germanium detector. Undergraduate Researcher Summer 2009 Lawrence Berkeley National Lab Semiconductor Detector Group - Studied methods for improving Germanium based gamma-ray double sided strip detectors, gained experience working with vacuum, cryogenic, and high voltage systems.	
TEACHING EXPERIENCE	University of California, Los Angeles , Los Angeles, California USA Teaching Assistant Physics 118 Electronics for Physical Measurements, Spring 2013 Physics 6B Physics for Life Science Majors: Electricity and Magnetism - Lab, Spring 2011 Physics 6A Physics for Life Science Majors: Mechanics - Lab, Fall 2010 Physics 4AL Physics Laboratory for Scientists and Engineers, Winter 2011, Summer 2013	

TECHNICAL SKILLS	PYTHON, UNIX, IDL, MATLAB, ROOT, L ^A T _E X, Geant4, MySQL, Office soldering, FADCs, clean room, cryogenic systems, vacuum systems, high voltage systems
PRESENTATIONS	<p>Alexis Popkow for the VERITAS Collaboration, "The VERITAS Survey of the Cygnus Region of the Galaxy", (Talk), International Cosmic Ray Conference (ICRC), The Hague, The Netherlands, August 2015</p> <p>Alexis Popkow for the VERITAS Collaboration, "The VERITAS Survey of the Cygnus Region of the Galaxy", (poster), American Astronomical Society, High Energy Astrophysics Division Meeting, Chicago, Illinois, August 2014</p> <p>Alexis Popkow for the VERITAS Collaboration, "The VERITAS Sky Survey Results and Future Plans", (poster), American Astronomical Society Meeting, Long Beach, California, January 2013</p>
AWARDS	<p>University of California, Los Angeles, Physics and Astronomy Department</p> <p>Rudnick-Abelman Scholarship 2013-2014</p> <p>The Engel Fellowship 2010-2011</p>
LEADERSHIP ACTIVITIES	<p>Women in Physics and Astronomy (WiPA) at UCLA – founded group; started mentoring program</p> <p>Astronomy Live! at UCLA – assisted in outreach events at UCLA and local schools</p> <p>Exploring Your Universe at UCLA – Merchandise Coordinator, 2015; Developed and led VERITAS booth, 2013, 2014, 2015</p> <p>Math and Physical Sciences Council of the Graduate Student Association at UCLA - Representative</p>
PUBLICATIONS	<p>Archambault, S., et al. (The VERITAS Collaboration), "Discovery of Very High Energy Gamma Rays from 1ES 1440+122" MNRAS, 2016, Volume 461, Issue 1, p.202-208</p> <p>Aliu, E., et al. (The VERITAS Collaboration), "Very High Energy outburst of Markarian 501 in May 2009" accepted A&A 2016</p> <p>Abeysekara, A. U., et al. (The VERITAS Collaboration), "VERITAS and Multiwavelength Observations of the BL Lacertae Object 1ES 1741+196" MNRAS, 2016, Volume 459, Issue 3, p.2550-2557</p> <p>Archambault, S., et al. (The VERITAS Collaboration), "Upper limits from five years of blazar observations with the VERITAS Cherenkov telescopes" ApJ, 151, 2016, 6</p> <p>Archer, A., et al. (The VERITAS Collaboration), "TeV Gamma-ray Observations of The Galactic Center Ridge By VERITAS" ApJ, 821, 2016, 2</p> <p>Abeysekara, A. U., et al. (The VERITAS Collaboration), "A Search for Brief Optical Flashes Associated with the SETI Target KIC 8462852" ApJL, 818, 2016, 2</p> <p>Archambault, S., et al. (The VERITAS Collaboration), "Exceptionally bright TeV flares from the binary LS I +61° 303" ApJL, 817, 2016, 1</p> <p>Abeysekara, A. U., et al. (The VERITAS Collaboration), "Gamma rays from the quasar PKS 1441+25: story of an escape" ApJL, 815, 2015, 2</p> <p>Abeysekara, A. U., et al. (The VERITAS Collaboration), "VERITAS Collaboration Contributions to the 34th International Cosmic Ray Conference" 2015, arXiv:1510.01639</p> <p>Staszak, D., Abeysekara, A. U., et al. (The VERITAS Collaboration), "Science Highlights from VERITAS" International Cosmic Ray Conference, 2015, arXiv:1510.01269</p>

Furniss, A., et al. "First NuSTAR Observations of Mrk 501 within a Radio to TeV Multi-Instrument Campaign" *ApJ*, 812, 2015, 65

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Aleksic, J., et al., "The 2009 multiwavelength campaign on Mrk 421: Variability and correlation studies" *A&A*, 576, 2015, A126

Aliu, E., et al. (The VERITAS Collaboration), "A Search for Pulsations from Geminga Above 100 GeV with VERITAS" *ApJ*, 800, 2014, 61

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D'Ammando, F., et al., "The most powerful flaring activity from the NLSy1 PMN J0948+0022" *MNRAS*, 2014, Volume 446, Issue 3, p.2456-2467

Aliu, E., et al. (The VERITAS Collaboration), "Constraints on Very High Energy Emission from GRB 130427A" *ApJL*, 795, 2014, L3

Aliu, E., et al. (The VERITAS Collaboration), "Investigating the TeV Morphology of MGRO J1908+06 with VERITAS" *ApJ*, 787, 2014, 166

Archambault, S., et al. (The VERITAS Collaboration), "Deep Broadband Observations of the Distant Gamma-Ray Blazar PKS 1424+240" *ApJL*, 785, 2014, L16

Aliu, E., et al. (The VERITAS Collaboration), "Observations of the Unidentified Gamma-Ray Source TeV J2032+4130 by VERITAS" *ApJ*, 783, 2014, 16

- *Responsible for the Fermi-LAT analysis in Section 4.*

Aliu, E., et al. (The VERITAS Collaboration), "A Three-year Multi-wavelength Study of the Very-high-energy $\hat{\text{I}}\text{s}$ -Ray Blazar 1ES 0229+200" *ApJ*, 782, 2013, 13

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Aliu, E., et al. (VERITAS Collaboration), "A Search for Enhanced Very High Energy Gamma-Ray Emission from the 2013 March Crab Nebula Flare" *ApJ*, 781, 2013, L11

Aliu, E., et al. (VERITAS Collaboration), "VERITAS contributions to the 33rd International Cosmic Ray Conference" 2013, arXiv:1308.6173

Aliu, E., et al. (VERITAS Collaboration), "Discovery of a New TeV Gamma-Ray Source: VER J0521+211" *ApJ*, 776, 2013, 69

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Aliu, E., et al. (VERITAS Collaboration), "Discovery of TeV Gamma-ray Emission Toward Supernova Remnant SNR G78.2+2.1" *ApJ*, 770, 2013, 93

PROFESSIONAL
AFFILIATIONS

American Physical Society
American Astronomical Society

CITIZENSHIP

USA