

A. Nepomuk Otte, PhD
Assistant Professor
School of Physics and Center for Relativistic Astrophysics
Georgia Institute of Technology

I. Earned Degrees

Ph.D.	Physics	2004-2007	Technical University Munich / Max-Planck Institute for Physics (advisor E. Lorenz)
Diploma	Physics	1998-2003	Ruprecht Karl University of Heidelberg, Germany (advisor: H. Orth)

II. EMPLOYMENT HISTORY

2011-present Assistant Professor in Physics, School of Physics and Center for Relativistic Astrophysics,
Georgia Institute of Technology
2008-2011 Postdoctoral Researcher, Santa Cruz Institute for Particle Physics (SCIPP) and University of
California in Santa Cruz (UCSC) (advisor: D. Williams)
2007-2008 Postdoctoral Researcher, Humboldt University, Berlin and Max-Planck Institute for Physics,
Munich, Germany (advisor T. Schweizer)

III. HONORS AND AWARDS

2014 Two “Thank a Teacher” Certificate from former introductory physics students via the Center of
Enhancement of Teaching and Learning, Georgia Institute of Technology
2008 Feodor-Lynen Postdoctoral Fellowship from the Alexander von Humboldt foundation, Germany

IV. RESEARCH, SCHOLARSHIP, AND CREATIVE ACTIVITIES

(* next to item number indicates work done at Georgia Tech
(# indicates Otte group grad student/postdoc; @ indicates undergraduate author; * indicates corresponding
authorship)

B. REFEREED PUBLICATIONS AND SUBMITTED ARTICLES

B1. Published and Accepted Journal Articles

Collaborations in Astroparticle physics publish with author lists in alphabetical order.
Articles with major contributions from members of the Otte group are listed first. Major contributions are data
analysis, paper writing, or data taking. The VERITAS and MAGIC Collaborations each have 100 members and
the CTA Consortium 1000 members.

Major contributions

1. *Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D;
Tyler J, Richards G.#, Meagher K.#, et al. (VERITAS Collaboration) (2014).
A search for enhanced very high energy gamma-ray emission from the 2013 March Crab Nebula flare.
Letters of the Astrophysical Journal, 781 (1) [10.1088/2041-8205/781/1/L11](https://doi.org/10.1088/2041-8205/781/1/L11)
[corresponding author is graduate student Gregory Richards who led the paper under Otte's supervision]

2. *Gilmore RC; Bouvier A; Connaughton V; Goldstein A; Otte N; Primack JR; Williams DA (2013). IACT observations of gamma-ray bursts: prospects for the Cherenkov Telescope Array. *Experimental Astronomy: an international journal on astronomical instrumentation and data analysis*, 35 (3) (pp. 413 - 457) [10.1007/s10686-012-9316-z](https://doi.org/10.1007/s10686-012-9316-z)
[Otte contributed instrument response functions for VERITAS]
3. *Lyutikov M; Otte N; McCann A (2012). THE VERY HIGH ENERGY EMISSION FROM PULSARS: A CASE FOR INVERSE COMPTON SCATTERING. *The Astrophysical Journal: an international review of astronomy and astronomical physics*, 754 (1) (pp. 33 - 33) [10.1088/0004-637X/754/1/33](https://doi.org/10.1088/0004-637X/754/1/33)
[Otte contributed with analysis, paper writing and theory discussion]
4. *Aliu E; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tešić G; Arlen T; Majumdar P, et al. (VERITAS Collaboration) (2012). Search for a correlation between very-high-energy gamma rays and giant radio pulses in the Crab pulsar. *The Astrophysical Journal: an international review of astronomy and astronomical physics*, 760 (2) [10.1088/0004-637X/760/2/136](https://doi.org/10.1088/0004-637X/760/2/136)
[Project led by Otte, organized joint radio-VERITAS observations, analyzed data, wrote paper]
5. Aleksić J; Alvarez EA; Antonelli LA; Antoranz P; Asensio M; Backes M; Barrio JA; Bastieri D; Becerra González J; Bednarek W, et al. (MAGIC Collaboration) (2011). OBSERVATIONS OF THE CRAB PULSAR BETWEEN 25 AND 100 GeV WITH THE MAGIC I TELESCOPE. *The Astrophysical Journal: an international review of astronomy and astronomical physics*, 742 (1) (pp. 43 - 43) [10.1088/0004-637X/742/1/43](https://doi.org/10.1088/0004-637X/742/1/43)
[Otte contributed with data analysis]
6. Aliu E; Arlen T; Aune T; Beilicke M; Benbow W; Bouvier A; Bradbury SM; Buckley JH; Bugaev V; Byrum K, et al. (VERITAS Collaboration) (2011). Detection of Pulsed Gamma Rays Above 100 GeV from the Crab Pulsar. *Science*, 334 (6052) (pp. 69 - 72) [10.1126/science.1208192](https://doi.org/10.1126/science.1208192)
[Project initiated and executed by Otte, data analysis and paper writing, corresponding author. This paper received widespread public news coverage. See link in narrative]
7. Acciari VA; Aliu E; Beilicke M; Benbow W; Boltuch D; Böttcher M; Bradbury SM; Bugaev V; Byrum K; Cesarini A, et al. (VERITAS Collaboration) (2010). DISCOVERY OF VARIABILITY IN THE VERY HIGH ENERGY γ -RAY EMISSION OF 1ES 1218+304 WITH VERITAS. *Letters of the Astrophysical Journal*, 709 (2) (pp. L163 - L167) [10.1088/2041-8205/709/2/L163](https://doi.org/10.1088/2041-8205/709/2/L163)
[Otte contributed with data analysis]
8. Acciari VA; Aliu E; Arlen T; Aune T; Bautista M; Beilicke M; Benbow W; Böttcher M; Boltuch D; Bradbury SM, et al. (VERITAS Collaboration) (2010). DISCOVERY OF VERY HIGH ENERGY GAMMA RAYS FROM PKS 1424+240 AND MULTIWAVELENGTH CONSTRAINTS ON ITS REDSHIFT. *Letters of the Astrophysical Journal*, 708 (2) (pp. L100 - L106) [10.1088/2041-8205/708/2/L100](https://doi.org/10.1088/2041-8205/708/2/L100)
[Otte performed data analysis and wrote paper, corresponding author]
9. Rissi M; Otte N; Schweizer T; Shayduk M (2009). A New Sum Trigger to Provide a Lower Energy Threshold for the MAGIC Telescope. *IEEE Transactions on Nuclear Science*, 56 (6) (pp. 3840 - 3843) [10.1109/TNS.2009.2030802](https://doi.org/10.1109/TNS.2009.2030802)
[Equal contributions amongst all authors.]
10. Aliu E; Anderhub H; Antonelli LA; Antoranz P; Backes M; Baixeras C; Barrio JA; Bartko H; Bastieri D; Becker JK, et al. (MAGIC Collaboration) (2008). Observation of Pulsed Gamma-Rays Above 25 GeV from the Crab Pulsar with MAGIC. *Science*, 322 (5905) (pp. 1221 - 1224) [10.1126/science.1164718](https://doi.org/10.1126/science.1164718)
[Otte did the data analysis and wrote paper, corresponding author]

11. Biland A; Britvich I; Lorenz E; Otte N; Pauss F; Renker D; Ritt S; Roesner U; Scheebeli M (2008).
First detection of air shower Cherenkov light by Geigermode-Avalanche Photodiodes. Nuclear
Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors, and
Associated Equipment, 595 (1) (pp. 165 - 168) [10.1016/j.nima.2008.07.097](https://doi.org/10.1016/j.nima.2008.07.097)
[Otte did measurements]
12. Lucarelli F; Barrio JA; Antoranz P; Asensio M; Camara M; Contreras JL; Fonseca MV; Lopez M;
Miranda JM; Oya I, et al. (2008).
The central pixel of the MAGIC telescope for optical observations. Nuclear Instruments and Methods in
Physics Research Section A: Accelerators, Spectrometers, Detectors, and Associated Equipment, 589 (3)
(pp. 415 - 424) [10.1016/j.nima.2008.03.007](https://doi.org/10.1016/j.nima.2008.03.007)
[Otte did technical developments and measurements]
13. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Baixeras C; Barrio JA; Bartko H; Bastieri D;
Becker JK, et al. (MAGIC Collaboration) (2008).
VHE γ -Ray Observation of the Crab Nebula and its Pulsar with the MAGIC Telescope. The Astrophysical
Journal: an international review of astronomy and astronomical physics, 674 (2) (pp. 1037 - 1055)
[10.1086/525270](https://doi.org/10.1086/525270)
[Otte did data analysis and wrote paper, corresponding author]
14. Spanoudaki VC; Mann AB; Otte AN; Konorov I; Torres-Espallardo I; Paul S; Ziegler SI (2007).
Use of single photon counting detector arrays in combined PET/MR: Characterization of LYSO-SiPM
detector modules and comparison with a LSO-APD detector. Journal of Instrumentation, 2 (12) (pp.
P12002 - P12002) [10.1088/1748-0221/2/12/P12002](https://doi.org/10.1088/1748-0221/2/12/P12002)
[Otte contributed with detectors and technical advise]
15. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Baixeras C; Barrio JA; Bartko H; Bastieri D;
Becker JK, et al. (MAGIC Collaboration) (2007).
Constraints on the Steady and Pulsed Very High Energy Gamma-Ray Emission from Observations of PSR
B1951 and 32/CTB 80 with the MAGIC Telescope. The Astrophysical Journal: an international review of
astronomy and astronomical physics, 669 (2) (pp. 1143 - 1149) [10.1086/521807](https://doi.org/10.1086/521807)
[Otte did data analysis and wrote paper, corresponding author]
16. Otte AN; Hose J; Mirzoyan R; Romaszkiwicz A; Teshima M; Thea A (2006).
A measurement of the photon detection efficiency of silicon photomultipliers. Nuclear Instruments and
Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors, and Associated
Equipment, 567 (1) (pp. 360 - 363) [10.1016/j.nima.2006.05.145](https://doi.org/10.1016/j.nima.2006.05.145)
[Otte invented method, performed measurements and wrote paper]
17. Otte AN; Dolgoshein B; Hose J; Klemin S; Lorenz E; Lutz G; Mirzoyan R; Popova E; Richter RH;
Struder LWJ (2006).
Prospects of using silicon photomultipliers for the astroparticle physics experiments EUSO and MAGIC.
IEEE Transactions on Nuclear Science, 53 (2) (pp. 636 - 640) [10.1109/TNS.2006.870575](https://doi.org/10.1109/TNS.2006.870575)
[Otte wrote paper]
18. Albert J, et al. (MAGIC Collaboration) (2006).
Variable Very-High-Energy Gamma-Ray Emission from the Microquasar LS I +61 303. Science, 312
(5781) (pp. 1771 - 1773) [10.1126/science.1128177](https://doi.org/10.1126/science.1128177)
[Otte did data analysis]
19. Otte AN; Barral J; Dolgoshein B; Hose J; Klemin S; Lorenz E; Mirzoyan R; Popova E; Teshima M
(2005).
A test of silicon photomultipliers as readout for PET. Nuclear Instruments and Methods in Physics
Research Section A: Accelerators, Spectrometers, Detectors, and Associated Equipment, 545 (3) (pp. 705
- 715) [10.1016/j.nima.2005.02.014](https://doi.org/10.1016/j.nima.2005.02.014)
[Otte did measurement and wrote paper]

Other peer reviewed journal articles

The papers in the following list are all collaboration papers mostly from CTA, VERITAS and MAGIC. Authorship is justified through contributions made to the experiment, which are: Doing observing shifts, performing data quality monitoring, calibration, maintenance work at the experiment, developing analysis software and simulation software, etc.

1. Aliu E; Errando M; Mukherjee R; Aune T; Ong RA; Popkow A; Behera B; Chen X; Federici S; Fleischhack H, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Spatially resolving the very high energy emission from MGRO J2019+37 with veritas. The Astrophysical Journal: an international review of astronomy and astronomical physics, 788 (1) [10.1088/0004-637X/788/1/78](https://doi.org/10.1088/0004-637X/788/1/78)
2. Archer A; Beilicke M; Buckley JH; Bugaev V; Chen W; Krawczynski H; Zajczyk A; Barnacka A; Benbow W; Cerruti M, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Very-high energy observations of the galactic center region by veritas in 2010-2012. The Astrophysical Journal: an international review of astronomy and astronomical physics, 790 (2) [10.1088/0004-637X/790/2/149](https://doi.org/10.1088/0004-637X/790/2/149)
3. Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tešić G; Arlen T; Aune T; Majumdar P; Ong RA, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Test of models of the cosmic infrared background with multiwavelength observations of the blazar 1ES 1218+30.4 in 2009. The Astrophysical Journal: an international review of astronomy and astronomical physics, 788 (2) [10.1088/0004-637X/788/2/158](https://doi.org/10.1088/0004-637X/788/2/158)
4. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D; Tyler J, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Investigating the TEV morphology of MGRO j1908+06 with VERITAS. The Astrophysical Journal: an international review of astronomy and astronomical physics, 787 (2) [10.1088/0004-637X/787/2/166](https://doi.org/10.1088/0004-637X/787/2/166)
5. Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D; Tyler J; Aune T; Ong RA; Popkow A, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Deep broadband observations of the distant gamma-ray blazar PKS 1424+240. Letters of the Astrophysical Journal, 785 (1) [10.1088/2041-8205/785/1/L16](https://doi.org/10.1088/2041-8205/785/1/L16)
6. Aliu E; Errando M; Mukherjee R; Nieto D; Aune T; Majumdar P; Ong RA; Popkow A; Behera B; Chen X, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Observations of the unidentified gamma-ray source TeV J2032+4130 by veritas. The Astrophysical Journal: an international review of astronomy and astronomical physics, 783 (1) [10.1088/0004-637X/783/1/16](https://doi.org/10.1088/0004-637X/783/1/16)
7. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Arlen T; Aune T, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
A three-year multi-wavelength study of the very-high-energy γ -ray blazar 1es 0229+200. The Astrophysical Journal: an international review of astronomy and astronomical physics, 782 (1) [10.1088/0004-637X/782/1/13](https://doi.org/10.1088/0004-637X/782/1/13)
8. Acciari VA; Moriarty P; Benbow W; Galante N; Gibbs K; Roache E; Schroedter M; Weekes TC; Arlen T; Ong RA, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Observation of Markarian 421 in TeV gamma rays over a 14-year time span. Astroparticle Physics, 54 (pp. 1 - 10) [10.1016/j.astropartphys.2013.10.004](https://doi.org/10.1016/j.astropartphys.2013.10.004)
9. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D; Tyler J, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2014).
Long-term TeV and X-ray observations of the gamma-ray binary hess j0632+057. The Astrophysical Journal: an international review of astronomy and astronomical physics, 780 (2) [10.1088/0004-637X/780/2/168](https://doi.org/10.1088/0004-637X/780/2/168)
10. Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D; Tyler J; Beilicke M; Buckley JH; Bugaev V, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).

Veritas observations of the microquasar cygnus X-3. The Astrophysical Journal: an international review of astronomy and astronomical physics, 779 (2) [10.1088/0004-637X/779/2/150](https://doi.org/10.1088/0004-637X/779/2/150)

11. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tešić G; Arlen T, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Long term observations of b2 1215+30 with veritas. The Astrophysical Journal: an international review of astronomy and astronomical physics, 779 (2) [10.1088/0004-637X/779/2/92](https://doi.org/10.1088/0004-637X/779/2/92)
12. Aliu E; Humensky TB; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Rajotte J; Staszak D; Tyler J, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Multiwavelength observations of the TeV binary LS i +61° 303 with veritas, Fermi-LAT, and swift/XRT during a TeV outburst. The Astrophysical Journal: an international review of astronomy and astronomical physics, 779 (1) [10.1088/0004-637X/779/1/88](https://doi.org/10.1088/0004-637X/779/1/88)
13. Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Arlen T; Aune T; Majumdar P; Ong RA; Popkow A, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Discovery of a new TeV gamma-ray source: Ver J0521+211. The Astrophysical Journal: an international review of astronomy and astronomical physics, 776 (2) [10.1088/0004-637X/776/2/69](https://doi.org/10.1088/0004-637X/776/2/69)
14. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tyler J; Arlen T, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Multiwavelength observations and modeling of 1ES 1959+650 in a low flux state. The Astrophysical Journal: an international review of astronomy and astronomical physics, 775 (1) [10.1088/0004-637X/775/1/3](https://doi.org/10.1088/0004-637X/775/1/3)
15. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Tešić G; Tyler J; Arlen T, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Discovery of TeV gamma-ray emission toward supernova remnant SNR G78.2+2.1. The Astrophysical Journal: an international review of astronomy and astronomical physics, 770 (2) [10.1088/0004-637X/770/2/93](https://doi.org/10.1088/0004-637X/770/2/93)
16. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tešić G; Tyler J, Meagher K#, Richards G#, et al. (VERITAS Collaboration) (2013).
Discovery of TeV gamma-ray emission from CTA 1 by Veritas. The Astrophysical Journal: an international review of astronomy and astronomical physics, 764 (1) [10.1088/0004-637X/764/1/38](https://doi.org/10.1088/0004-637X/764/1/38)
17. Inoue S; Murase K; Teshima M; Granot J; O'Brien PT; Hinton J; Osborne JP; Starling R; Asano K; Bouvier A et al. (2013). Gamma-ray burst science in the era of the Cherenkov Telescope Array. Astroparticle Physics, 43 (pp. 252 - 275) [10.1016/j.astropartphys.2013.01.004](https://doi.org/10.1016/j.astropartphys.2013.01.004)
18. Acharya BS; Actis M; Aghajani T; Agnetta G; Aguilar J; Aharonian F; Ajello M; Akhperjanian A; Alcubierre M; Aleksić J, Meagher K#, et al. (CTA Consortium) (2013).
Introducing the CTA concept. Astroparticle Physics, 43 (pp. 3 - 18) [10.1016/j.astropartphys.2013.01.007](https://doi.org/10.1016/j.astropartphys.2013.01.007)
19. Aliu E; Archambault S; Arlen T; Aune T; Beilicke M; Benbow W; Böttcher M; Bouvier A; Bradbury SM; Buckley JH (VERITAS Collaboration) (2012).
DISCOVERY OF HIGH-ENERGY AND VERY HIGH ENERGY γ -RAY EMISSION FROM THE BLAZAR RBS 0413. The Astrophysical Journal: an international review of astronomy and astronomical physics, 750 (2) (pp. 94 - 94) [10.1088/0004-637X/750/2/94](https://doi.org/10.1088/0004-637X/750/2/94)
20. Aliu E; Archambault S; Arlen T; Aune T; Beilicke M; Benbow W; Bouvier A; Bradbury SM; Buckley JH; Bugaev V, et al. (VERITAS Collaboration) (2012).
VERITAS deep observations of the dwarf spheroidal galaxy Segue 1. Physical Review D: Particles, Fields, Gravitation and Cosmology, 85 (6) [10.1103/PhysRevD.85.062001](https://doi.org/10.1103/PhysRevD.85.062001)
21. Abramowski A; Acero F; Aharonian F; Akhperjanian AG; Anton G; Balzer A; Barnacka A; Barres de Almeida U; Becherini Y; Becker J, et al. (VERITAS H.E.S.S. and MAGIC Collaboration) (2012).
THE 2010 VERY HIGH ENERGY γ -RAY FLARE AND 10 YEARS OF MULTI-WAVELENGTH

OBSERVATIONS OF M 87. The Astrophysical Journal: an international review of astronomy and astronomical physics, 746 (2) (pp. 151 - 151) [10.1088/0004-637X/746/2/151](https://doi.org/10.1088/0004-637X/746/2/151)

22. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; Ragan K; Staszak D; Tešić G; Arlen T, et al. (VERITAS Collaboration) (2012).
Veritas observations of six bright, hard-spectrum Fermi-lat blazars. The Astrophysical Journal: an international review of astronomy and astronomical physics, 759 (2) [10.1088/0004-637X/759/2/102](https://doi.org/10.1088/0004-637X/759/2/102)
23. Arlen T; Majumdar P; Ong RA; Aune T; Bouvier A; Furniss A; Williams DA; Beilicke M; Buckley JH; Bugaev V, et al. (VERITAS Collaboration) (2012).
Constraints on cosmic rays, magnetic fields, and dark matter from gamma-ray observations of the coma cluster of galaxies with veritas and fermi. The Astrophysical Journal: an international review of astronomy and astronomical physics, 757 (2) [10.1088/0004-637X/757/2/123](https://doi.org/10.1088/0004-637X/757/2/123)
24. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; McCann A; Ragan K; Staszak D; Tešić G, et al. (VERITAS Collaboration) (2012).
Multiwavelength observations of the AGN 1ES 0414+009 with veritas, FERMI-LAT, SWIFT-XRT, and MDM. The Astrophysical Journal: an international review of astronomy and astronomical physics, 755 (2) [10.1088/0004-637X/755/2/118](https://doi.org/10.1088/0004-637X/755/2/118)
25. Aliu E; Errando M; Mukherjee R; Archambault S; Griffin S; Hanna D; McCann A; Ragan K; Staszak D; Tešić G, et al. (VERITAS Collaboration) (2012).
VERITAS observations of the nova in V407 Cygni. The Astrophysical Journal: an international review of astronomy and astronomical physics, 754 (1) [10.1088/0004-637X/754/1/77](https://doi.org/10.1088/0004-637X/754/1/77)
26. Aliu E; Errando M; Mukherjee R; Arlen T; Majumdar P; Ong RA; Vassiliev VV; Aune T; Bouvier A; Furniss A, et al. (VERITAS Collaboration) (2012).
Veritas observations of day-scale flaring of M 87 in 2010 April. The Astrophysical Journal: an international review of astronomy and astronomical physics, 746 (2) [10.1088/0004-637X/746/2/141](https://doi.org/10.1088/0004-637X/746/2/141)
27. Abdo AA; Ackermann M; Ajello M; Baldini L; Ballet J; Barbiellini G; Bastieri D; Bechtol K; Bellazzini R; Berenji B, et al. (Fermi-LAT and VERITAS Collaboration) (2011).
MULTI-WAVELENGTH OBSERVATIONS OF THE FLARING GAMMA-RAY BLAZAR 3C 66A IN 2008 OCTOBER. The Astrophysical Journal: an international review of astronomy and astronomical physics, 726 (1) (pp. 43 - 43) [10.1088/0004-637X/726/1/43](https://doi.org/10.1088/0004-637X/726/1/43)
28. Actis M; Agnetta G; Aharonian F; Akhperjanian A; Aleksić J; Aliu E; Allan D; Allekotte I; Antico F; Antonelli LA et al. (CTA Consortium) (2011).
Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy: an international journal on astronomical instrumentation and data analysis, 32 (3) (pp. 193 - 316) [10.1007/s10686-011-9247-0](https://doi.org/10.1007/s10686-011-9247-0)
29. Acciari VA; Aliu E; Arlen T; Aune T; Beilicke M; Benbow W; Bradbury SM; Buckley JH; Bugaev V; Byrum K, et al. (VERITAS Collaboration) (2011).
VERITAS OBSERVATIONS OF GAMMA-RAY BURSTS DETECTED BY. The Astrophysical Journal: an international review of astronomy and astronomical physics, 743 (1) (pp. 62 - 62) [10.1088/0004-637X/743/1/62](https://doi.org/10.1088/0004-637X/743/1/62)
30. Aliu E; Aune T; Beilicke M; Benbow W; Böttcher M; Bouvier A; Bradbury SM; Buckley JH; Bugaev V; Cannon A, et al (VERITAS Collaboration). (2011).
MULTIWAVELENGTH OBSERVATIONS OF THE PREVIOUSLY UNIDENTIFIED BLAZAR RX J0648.7+1516. The Astrophysical Journal: an international review of astronomy and astronomical physics, 742 (2) (pp. 127 - 127) [10.1088/0004-637X/742/2/127](https://doi.org/10.1088/0004-637X/742/2/127)
31. Aliu E; Arlen T; Aune T; Beilicke M; Benbow W; Böttcher M; Bouvier A; Bradbury SM; Buckley JH; Bugaev V, et al. (VERITAS Collaboration) (2011).
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Discovery of Very High Energy γ -Ray Emission from the Low-Frequency-peaked BL Lacertae Object BL Lacertae. The Astrophysical Journal: an international review of astronomy and astronomical physics, 666 (1) (pp. L17 - L20) [10.1086/521550](https://doi.org/10.1086/521550)
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Very High Energy Gamma-Ray Radiation from the Stellar Mass Black Hole Binary Cygnus X-1. The Astrophysical Journal: an international review of astronomy and astronomical physics, 665 (1) (pp. L51 - L54) [10.1086/521145](https://doi.org/10.1086/521145)
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Observations of Markarian 421 with the MAGIC Telescope. The Astrophysical Journal: an international review of astronomy and astronomical physics, 663 (1) (pp. 125 - 138) [10.1086/518221](https://doi.org/10.1086/518221)
90. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Baixeras C; Barrio JA; Bartko H; Bastieri D; Becker JK, et al. (MAGIC Collaboration) (2007).
Observation of Very High Energy γ -Rays from the AGN 1ES 2344+514 in a Low Emission State with the MAGIC Telescope. The Astrophysical Journal: an international review of astronomy and astronomical physics, 662 (2) (pp. 892 - 899) [10.1086/518431](https://doi.org/10.1086/518431)
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Gross Properties and Isotopic Phenomena in Spectator Fragmentation. Nuclear Physics, Section A, 787 (1-4) (pp. 627 - 632) [10.1016/j.nuclphysa.2006.12.074](https://doi.org/10.1016/j.nuclphysa.2006.12.074)
92. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Asensio M; Baixeras C; Barrio JA; Bartko H; Bastieri D, et al. (MAGIC Collaboration) (2006).
Discovery of Very High Energy γ -Rays from Markarian 180 Triggered by an Optical Outburst. The Astrophysical Journal: an international review of astronomy and astronomical physics, 648 (2) (pp. L105 - L108) [10.1086/508020](https://doi.org/10.1086/508020)
93. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Asensio M; Baixeras C; Barrio JA; Bartelt M; Bartko H, et al. (MAGIC Collaboration) (2006).
Observation of VHE Gamma Radiation from HESS J1834-087/W41 with the MAGIC Telescope. The

Astrophysical Journal: an international review of astronomy and astronomical physics, 643 (1) (pp. L53 - L56) [10.1086/504917](https://doi.org/10.1086/504917)

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Discovery of Very High Energy Gamma Rays from 1ES 1218+30.4. The Astrophysical Journal: an international review of astronomy and astronomical physics, 642 (2) (pp. L119 - L122) [10.1086/504845](https://doi.org/10.1086/504845)
95. Albert J; Aliu E; Anderhub H; Antoranz P; Armada A; Asensio M; Baixeras C; Barrio JA; Bartelt M; Bartko H, et al. (MAGIC Collaboration) (2006).
Flux Upper Limit on Gamma-Ray Emission by GRB 050713a from MAGIC Telescope Observations. The Astrophysical Journal: an international review of astronomy and astronomical physics, 641 (1) (pp. L9 - L12) [10.1086/503767](https://doi.org/10.1086/503767)
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Observation of Very High Energy Gamma-Ray Emission from the Active Galactic Nucleus 1ES 1959+650 Using the MAGIC Telescope. The Astrophysical Journal: an international review of astronomy and astronomical physics, 639 (2) (pp. 761 - 765) [10.1086/499421](https://doi.org/10.1086/499421)
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Observation of Gamma Rays from the Galactic Center with the MAGIC Telescope. The Astrophysical Journal: an international review of astronomy and astronomical physics, 638 (2) (pp. L101 - L104) [10.1086/501164](https://doi.org/10.1086/501164)
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MAGIC Observations of Very High Energy γ -Rays from HESS J1813-178. The Astrophysical Journal: an international review of astronomy and astronomical physics, 637 (1) (pp. L41 - L44) [10.1086/500364](https://doi.org/10.1086/500364)
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100. Lutz G; Otte N; Richter RH; Struder L (2005).
The avalanche drift diode: a new detector concept for single photon detection. IEEE Transactions on Nuclear Science, 52 (4) (pp. 1156 - 1159) [10.1109/TNS.2005.852688](https://doi.org/10.1109/TNS.2005.852688)
101. Fort JAI; Armada A; Baixeras C; Bartko H; Bastieri D; Bednarek W; Bigongiari C; Biland A; Bisesi E; Blanch O, et al. (MAGIC Collaboration) (2005).
Physics and astrophysics with a ground-based gamma-ray telescope of low energy threshold. Astroparticle Physics, 23 (5) (pp. 493 - 509) [10.1016/j.astropartphys.2005.03.005](https://doi.org/10.1016/j.astropartphys.2005.03.005)
102. Sfienti C; Adrich P; Aumann T; Bacri CO; Barczyk T; Bassini R; Boiano C; Botvina AS; Boudard A; Brzychczyk J, et al. (2005).
Mass and Isospin Effects in Multifragmentation. Nuclear Physics, Section A, 749 (pp. 83 - 92) [10.1016/j.nuclphysa.2004.12.011](https://doi.org/10.1016/j.nuclphysa.2004.12.011)

B2. Conference Presentation with Proceedings Refereed

1. Nepomuk Otte A; for the VERITAS Collaboration (2012). First Detection of the Crab Pulsar above 100 GeV. At TAUP2011
2. Mirzoyan R; Dolgoshein B; Holl P; Klemin S; Merck C; Moser H-G; Otte AN; Ninković J; Popova E; Richter R (2007).
SiPM and ADD as advanced detectors for astro-particle physics. Nuclear Instruments and Methods in

Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 493 - 494)

3. Ninković J; Hartmann R; Holl P; Lutz G; Merck C; Mirzoyan R; Moser H-G; Otte A-N; Richter R; Soltan H (2007).
The Avalanche drift diode—A backilluminated Silicon Photomultiplier. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 454 - 455)
4. Lorenz E; Britvich I; Ferenc D; Otte N; Renker D; Sadygov Z; Stoykov A (2007).
Some studies for a development of a small animal PET based on LYSO crystals and Geiger mode-APDs. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 259 - 261)
5. Biland A; Britvich I; Lorenz E; Otte N; Pauss F; Renker D; Ritt S; Roeser U; Schneebeil M (2007).
First detection of Cherenkov light from cosmic-particle-induced air showers by Geiger-mode avalanche photodiodes. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 143 - 146)
6. Ninković J; Eckhart R; Hartmann R; Holl P; Koitsch C; Lutz G; Merck C; Mirzoyan R; Moser H-G; Otte A-N (2007).
The avalanche drift diode—A back illumination drift silicon photomultiplier. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 1013 - 1015)
7. Merck C; Holl P; Laatiaoui M; Lutz G; Moser HG; Otte N; Richter RH; Strüder L (2006).
Timing properties of an avalanche diode for single photon counting. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 272 - 275)
8. Lutz G; Holl P; Laatiaoui M; Merck C; Moser HG; Otte N; Richter RH; Strüder L (2006).
Development of avalanche-drift and avalanche-pixel detectors for single photon detection and imaging in the optical regime. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 129 - 132)
9. Buzhan P; Dolgoshein B; Filatov L; Ilyin A; Kaplin V; Karakash A; Klemin S; Mirzoyan R; Otte AN; Popova E (2006).
Large area silicon photomultipliers: Performance and applications. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment (pp. 78 - 82)

B4. Submitted Journal Articles (with date of submission)

1. *Richards G.#, Meagher K#, Otte A.N.#, et al (VERITAS Collaboration) (2014)
A Search for Pulsations from Geminga Above 100 GeV with VERITAS. Submitted as a letter to the Astrophysical Journal. Submission date 10/17/2014
[Graduate Student Richards did the data analysis and manuscript writing]
2. *Otte N,*, Meagher K#, Nguyen K#, Carroll M. @, Hooper S. @, McKinney K. @, Peet S. @ (2014)
Silicon Photomultiplier Integration in the Camera of the Mid-Size Schwarzschild-Couder Cherenkov Telescope for CTA. Nuclear Instruments and Methods in Physics Research Section A. Submission date 9/30/2014
[This paper describes the work done by the Georgia Tech group towards the prototype of the camera for the Schwarzschild-Couder Telescope]

C. OTHER PUBLICATIONS AND CREATIVE PRODUCTS

1. PhD Thesis: Otte A. N. (2007) Observation of VHE Gamma Rays from the Vicinity of magnetized Neutron Stars and Development of new Photon-Detectors for Future Ground based Gamma Ray Detectors. Available: http://jinst.sissa.it/jinst/theses/2007_JINST_TH_003.jsp
2. Diploma Thesis: Otte A. N. (2003) Entwicklung eines positionsempfindlichen Szintillationsdetektors zur Diagnose von radioaktiven Schwerionenstrahlen. Available online at http://www-aladin.gsi.de/www/kp3/publ/dipl_otte_2003.shtml

White papers:

1. *Otte N; Errando M; Griffiths S; Kaaret P; Krawczynski H; McCann A; Sinnis G; Stecker F; Taboada I; Vasileiou V (2013). Tests of Lorentz Invariance Violation with Gamma Rays to probe Quantum Gravity.
2. *Beatty JJ; Nelson AE; Olinto A; Sinnis G; Abeysekara AU; Anchordoqui LA; Aramaki T; Belz J; Buckley JH; Byrum K, et al. (2013). Snowmass Cosmic Frontiers 6 (CF6) Working Group Summary – The Bright Side of the Cosmic Frontier: Cosmic Probes of Fundamental Physics.

D. PRESENTATIONS

Invited presentations at conferences:

1. Otte N (for CTA-US), Silicon Photomultiplier Integration in the Camera of the Mid-Size Schwarzschild-Couder Cherenkov Telescope for CTA. **5th International conference on New Developments in Photodetectors (NDIP)** 2014 Tours, France (Invited)
2. Otte N (for VERITAS), Performance of VERITAS after the upgrade **Astroparticle Physics: a joint TeVPA/IDM conference** 2014 Amsterdam, Netherlands (Invited)
3. Otte group postdoc Meagher K (for CTA), The Cherenkov Telescope Array **10th International LISA Symposium**, 2014 Gainesville, FL (invited)
4. Otte N (for VERITAS), Pulsar Observations with VERITAS **25th Rencontres de Blois Particle Physics and Cosmology** 2013 Blois France (Invited)
5. Otte N SiPM Photodetectors for CTA **CF2: WIMP Dark Matter Indirect Detection" subgroup of the Snowmass Cosmic Frontier working group**, 2013 Palo Alto, CA (invited)
6. Otte N, VHE Pulsar Observations and Future Prospects **The Cosmic Kaleidoscope** 2012 Kruger Nationalpark, South Africa (invited)
7. Otte N (for VERITAS), VHE gamma-ray pulsations from Crab **Multi-GeV Astrophysics with Ground-Based Detectors** 2011 Dublin, Ireland (invited)
8. Otte N, TeV Observation of Extragalactic Gamma-Ray Sources **April Meeting of the APS** 2010 Washington, DC (invited)
9. Otte N, Photo-Detectors in Astroparticle Physics Experiments **WE-Heraeus-Seminar: Accelerators and Detectors at the Technology Frontier** 2009 Bad Honnef, Germany(invited)
10. Otte N, The Silicon Photomultiplier: A New Device for High Energy Physics, Astroparticle Physics, Industrial and Medical Applications. **The International Symposium On Detector Development For Particle, Astroparticle And Synchrotron Radiation Experiments (SNIC)** 2006 Palo Alto, California (invited)

Invited presentations at universities & institutes:

1. Otte N, **Observations of the Universe at 100 GeV, now and in the Future** (Invited) Universität Tübingen, Tübingen, Germany 2010.
2. Otte N, **Observations of the extragalactic sky in gamma-rays above 100 GeV with VERITAS** (Invited) Purdue University, IN 2010.

3. Otte N, **The first Detection of a Pulsar in Gamma-Rays above 25 GeV** (Invited) Lawrence Berkeley National Laboratory, Berkeley CA 2009.
4. Otte N, **New observation of very high-energy gamma-ray sources above 25 GeV** (Invited) McGill University, Quebec, Canada 2009.
5. Otte N, **Detection of the Crab pulsar above 25 GeV with the MAGIC telescope** (Invited) SLAC/KIPAC 2008.

Contributed presentations at conferences:

1. Otte group postdoc Meagher K. (for the CTA-US team) Schwarzschild-Couder Telescope for the Cherenkov Telescope, **SPIE Astronomical Telescopes + Instrumentation**, 2014 Montreal Canada
2. Otte group graduate student Richards G. (for VERITAS) Pulsar science in the VHE band with VERITAS, **International School of Cosmic Ray Astrophysics**, 2014 Erice Italy
3. Otte group graduate student Richards G. (for VERITAS) A search for enhanced VHE emission from the March 2013 Crab Nebula flare with Fermi-LAT & VERITAS **SES APS meeting** 2013 Bowling Green, KY
4. Otte N Tests of Lorentz Invariance Violation with Gamma-rays **Meeting of the American Physical Society (APS) Division of Particles and Fields (DPF)** 2013 Santa Cruz, CA
5. Otte N Tests of Lorentz Invariance Violation with Gamma Rays to probe Quantum Gravity **Cosmic Frontier Meeting for Snowmass 2013**, 2013, Palo Alto, CA

G. SOCIETAL AND POLICY IMPACTS

text interviews:

Newspaper: NZZ (Neue Zuercher Zeitung)

Interviewer: Hirstein A

Link <http://www.nzz.ch/nachrichten/hintergrund/wissenschaft/raetselhafte-signale-1.12903733>

Date: 09 Oct 2011

interviews:

Science Magazine Podcasts

Interview explaining the detection of the Crab pulsar above 100 GeV with VERITAS.

Deutschlandfunk (German national radio)

Program: Forschung aktuell

Interviewer(s): Lublinski J

First broadcast date: 09 Mar 2010

Notes / Description: Radio Interview in German about the detection of the starburst galaxy M82 with VERITAS

H. Other Professional Activities

Collaboration Memberships:

2008- VERITAS (Very Energetic Radiation Imaging Telescope Array System)

2008-2011 Fermi-LAT

2007- CTA (Cherenkov Telescope Array)

2004-2009 MAGIC (Major Atmospheric Gamma Imaging Cerenkov Telescope)

2001-2003 S254 a heavy ion accelerator experiment at GSI, Germany

V. TEACHING

A. COURSES TAUGHT

Fall 2014	PHYS 2211B <i>Intro Physics I</i>	132 Students
Spring 2014	PHYS 3123A <i>Electrodynamics</i>	56 Students
Fall 2013	PHYS 2226B <i>Intro Physics I</i>	191 Students
Spring 2013	PHYS 2226B <i>Intro Physics I</i>	236 Students
Spring 2012	PHYS 2226C <i>Intro Physics I</i>	210 Students

B. INDIVIDUAL STUDENT GUIDANCE

B1. Ph.D. Students

Name: Gregory Richards

Nature of Guidance: Thesis Advisor

From Date: 2011 **To Date:**

[Published one paper, another one is in peer review, two talks at conferences, shift leader in VERITAS, member of paper committees in VERITAS]

Name: Thanh Nguyen

Nature of Guidance: Thesis Advisor

From Date: 2014 **To Date:**

B3. Undergraduate Students

Name: Peet Sterling

Nature of Guidance: Undergraduate Research Advisor

From Date: 2014 **To Date:**

Notes: CS major

worked on CTA SCT, FPGA programming

Institution: Georgia Tech

Name: Bobbey Reese

Nature of Guidance: Undergraduate Research Advisor

From Date: 2014 **To Date:**

Notes: simulations of new readout concept

Institution: Georgia Tech

Name: Matt Carrol

Nature of Guidance: Undergraduate Research Advisor

From Date: 2013 **To Date:**

Notes: ME major

CTA-SCT project

Institution: Georgia Tech

Name: Robert Leonard

Nature of Guidance: Undergraduate Research Advisor

From Date: 2013 **To Date:**

Notes: Photon detector characterization

Institution: Georgia Tech

Name: Steve Hooper

Nature of Guidance: Undergraduate Research Advisor

From Date: 2013 **To Date:**

Notes: Development of cooling system for Schwarzschild Couder Telescope

Institution: Georgia Tech

Name: Kane McKinney

Nature of Guidance: Undergraduate Research Advisor

From Date: 2012 **To Date:** 2014

Notes: AE major

Worked on CTA-SCT

Institution: Now at Williams International as an aerospace engineer for the Expansion Group

Name: Joseph Johnson

Nature of Guidance: Undergraduate Research Advisor

From Date: 2012 **To Date:**

Notes:

Institution: Georgia Tech

Name: Robert Strausbaugh

Nature of Guidance: Undergraduate Research Advisor

From Date: 2012 **To Date:** 2013

Notes: now graduate student at Arizona State University, helped with the camera upgrade of VERITAS in Arizona, photondetector studies

B4. Service on thesis or dissertation committees

Name: Scott Griffith

Nature of Guidance: Ph.D Committee

From Date: 2013 **To Date:**

Name: Christian Skole

Nature of Guidance: Thesis/Defense Committee

From Date: 2014 **To Date:**

Notes:

Institution: DESY Zeuthen / Humboldt University

Address: DESY Zeuthen / Humboldt University, Berlin, Germany.

Name: Jakob Daugherty

Nature of Guidance: Thesis/Defense Committee

From Date: 2014 **To Date:**

Notes:

Institution: Georgia Institute of Technology

Address: Georgia Institute of Technology,

Name: Roberta Zanin

Nature of Guidance: Thesis/Defense Committee

From Date: 2011 **To Date:**

Notes:

Institution: IFAE, Universitat Autònoma de Barcelona

Address: IFAE, Universitat Autònoma de Barcelona, Barcelona, Spain.

B5. Mentorship of postdoctoral fellows or visiting scholars

Name: Kevin Meagher

Nature of Guidance: Mentor

From Date: 2012 **To Date:**

C. OTHER TEACHING ACTIVITIES

Course Title: Fermi Summer School 2012

Number of Students: 100

Duration: 05/29/2012 - 06/08/2012

Notes: <http://fermi.gsfc.nasa.gov/science/mtgs/summerschool/2012/>

prepared several lectures: The Crab Pulsar from HE to VHE, Imaging Atmospheric Cherenkov Tutorial, Detector Physics

Location: , Lewes, DE

VI. SERVICE

A. PROFESSIONAL CONTRIBUTIONS

Conference Organizing:

Event name: International Conference on New Photon Detectors, PD15

Role: International Programming Committee Member

Event Name: The 40th COSPAR Scientific Assembly 2014

Position Role: Program Committee Member

Peer Reviewing:

Manuscripts reviewed for:

Journal of Instrumentation, Advances in Space Research, IEEE Transactions on Electron Devices
Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers,
Detectors, and Associated Equipment

Proposals reviewed for:

Netherlands Foundation for Fundamental Research on Matter, FOM
NASA Cycle-5 and Cycle-6 Fermi guest investigator program
DOE SBIR Program
VERITAS

Memberships in Professional and Honor Societies

American Physical Society (APS)

German Physical Society (DPG)

B. PUBLIC AND COMMUNITY SERVICE

Title: Cosmic Rays - Alien Invaders from Outer Space

Public Lecture Series of the School of Physics at Georgia Tech

Presentation date: 02 Dec 2013

Notes / Description: <http://www.physics.gatech.edu/seminars-colloquia/series/public-lecture/nepomuk-otte-20131202>

C. INSTITUTE CONTRIBUTIONS

2014- Member of the School of Physics Advisory Committee

2013- Chair of the School of Physics IT Committee

2013-2014 Member of the Graduate Student Admission Committee of the School of Physics