Biographical Sketch for James H. Buckley

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Professional Preparation:

The University of Toledo	Engineering Physics	B.S. 1986
The University of Chicago	Physics	Ph.D. 1994
Harvard-Smithsonian CfA	Physics Postdoc	1993–1997

Appointments:

Washington University	Professor	2005 –
Washington University	Associate Professor	2001 – 2005
Washington University	Assistant Professor	1997 – 2001
Harvard-Smithsonian CfA	Physicist, F.L.Whipple Observatory	1993–1997
University of Chicago	Research Assistantship	1987 – 1993

Honors and Awards:

The Academy of Science of St. Louis Innovation Award (2004), Department of Energy, Outstanding Junior Investigator (1998), Shakti Duggal Award - 25th International Cosmic Ray Conference (1997).

Principal Research Activities:

Gamma-ray astrophysics; optical astronomy; astroparticle physics; multiwavelength astronomy; physics of active galaxies; supernova remnants and cosmic-rays; indirect searches for dark matter; GaN-semiconductor detector development; stream-based supercomputing.

Select Publications:

- "Detection of Pulsed Gamma Rays Above 100 GeV from the Crab Pulsar", Aliu, E. et al. (VERITAS Collaboration), *Science*, **334**, 69 (2011).
- "A Connection Between Star Formation Activity and Cosmic Rays in the Starburst Galaxy M82", V.A. Acciari, et al. (VERITAS Collaboration), *Nature* **462**, 770 (2009).
- "Radio Imaging of the Very-High-Energy γ-Ray Emission Region in the Central Engine of a Radio Galaxy", V.A. Acciari, et al. (VERITAS Collaboration), *Science* **325**, 444 (2009).
- "High Energy Astrophysics with Ground-based Gamma-ray Detectors", F. Aharonian, J. Buckley, T. Kifune, and G. Sinnis, *Reports on Progress in Physics* **71**, 096901 (2008).
- "High Quantum Efficiency Ultraviolet/blue AlGaN/InGaN Photocathodes grown by molecular beam epitaxy", D.J. Leopold, J.H. Buckley, P. Rebillot, *Journal of Applied Physics* **98**, 043525 (2005).
- "TeV Gamma-Ray Observations of the Galactic Center", K. Kosack, et al. (Whipple Collaboration) *Astrophysical Journal* **608**, L97 (2004).
- "Observability of Gamma Rays from Dark Matter Neutralino Annihilation in the Milky Way Halo", L. Bergström, P. Ullio, and J. H. Buckley, *Astroparticle Physics* **9**, 137 (1998).
- "Limits to Quantum Gravity Effects from Observations of TeV Flares in Active Galaxies", S. D. Biller, A. C. Breslin, J. H. Buckley, M. Catanese, M. Carson, et al., *Phys. Rev. Letters* **83**, 2108–2111 (1999).