

## Biographical Sketch

### John P. Finley

#### Professor of Physics and Astronomy

##### Professional Preparation:

West Chester University	Physics	B.S.	1984
University of Wisconsin-Madison	Astrophysics	Ph.D.	1990
University of Wisconsin-Madison	Research Associate	Sept. 1990 – March 1991	
University of Wisconsin-Madison	Assistant Scientist	March 1991 – Aug. 1993	

##### Academic Appointments:

August 2015 – August 2021: Purdue University Department of Physics and Astronomy, Dept. Head

June 2002 – present: Purdue University Department of Physics and Astronomy, Professor

August 2002 – August 2006: Purdue University Department of Physics and Astronomy, Associate Dept. Head

August 1998 – August 2002: Purdue University Department of Physics and Astronomy, Associate Professor

August 1993 – August 1998: Purdue University Department of Physics and Astronomy, Assistant Professor

##### Sample Recent Publications:

1. Abeysekara, A. U. et al. (2020), *Demonstration of stellar intensity interferometry with the four VERITAS telescopes*, Nature Astronomy, 10.1038/s41550-020-1143-y.
2. Abeysekara, A. U. et al. (2020), *Evidence for Proton Acceleration up to TeV Energies Based on VERITAS and Fermi-LAT Observations of the Cas A SNR*, ApJ, 894, 51, 10.3847/1538-4357/ab8310.
3. Valverde, J. et al. (2020), *A Decade of Multiwavelength Observations of the TeV Blazar IES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical-Gamma-Ray Flux Increase*, ApJ, 891, 170, 10.3847/1538-4357/ab765d.
4. Abeysekara, A. U. et al. (2019), *Measurement of the Extragalactic Background Light Spectral Energy Distribution with VERITAS*, ApJ, 885, 150, 10.3847/1538-4357/ab4817.
5. Archer, A. et al. (2019), *A Search for Pulsed Very High-energy Gamma-Rays from 13 Young Pulsars in Archival VERITAS Data*, ApJ, 876, 95, 10.3847/1538-4357/ab14f4.
6. Benbow, W. et al. (2019), *Direct measurement of stellar angular diameters by the VERITAS Cherenkov telescopes*, Nature Astronomy, 3, 511, 10.1038/s41550-019-0741-z.
7. Abeysekara, A. U. (2018), *VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog*, ApJ, 866, 24, 10.3847/1538-4357/aade4e.
8. Archer, A. et al. (2018), *Measurement of cosmic-ray electrons at TeV energies by VERITAS*, PhysRevD, 98, 062004, 10.1103/PhysRevD.98.062004.
9. Archer, A. et al. (2018), *Measurement of the iron spectrum in cosmic rays by VERITAS*, PhysRevD, 98, 022009, 10.1103/PhysRevD.98.022009.

**Synergistic Activities:**

1. Elected Co-Chair of the Mu2e Equity, Diversity and Inclusion Committee; member VERITAS Science Board, member of American Physical Society, member of American Astronomical Society, member of American Association of Physics Teachers; panel member of various NASA peer reviews; panel member for NSF.
2. Referee for major journals; proposal referee for USCDFR, DoE, NSF, and NASA.
3. Development of track ID in Mu2e extinction monitor; validation and characterization of hits on pixels in ExtMon.

**Collaborators and other affiliations:**

**Member of the VERITAS and Mu2e collaborations:** Close collaborators in the U.S. include Bernstein, R. (FNAL); Buckley, J. H. (Wash U., St. Louis); Byrum, K. (ANL); Fortson, L. (U. of Minn.); Glenzinski, D. (FNAL); Holder, J. (U. Del.); Humensky, T. B. (Columbia); Kaaret, P. (Iowa); Kasper, P. (FNAL); Kertzman, M. (DePauw); Kieda, D. (Utah); Krennrich, F. (Iowa St.); McArthur, S. (Purdue); Miller, J. (BU); Mukherjee, R. (Barnard); Ong, R. A. (UCLA); Otte, A. N. (Georgia Tech); Sembroski, G. H. (Purdue); Vassiliev, V. V. (UCLA); Wagner, R. G. (ANL); Wakely, S. P. (Chicago); Weinstein, A. (Iowa St.); Williams, D. A. (UCSC).

**Graduate and Postdoctoral Advisors:**

Ugo Camerini, University of Wisconsin-Madison (Ph.D. Supervisor, deceased)  
Hakki Ogelman, University of Wisconsin-Madison (Postdoctoral Advisor, deceased)

**Thesis Students (7):**

Xiaobing Shi (Ph.D. 2023 expected)  
James Tucci (Ph.D. 2016 – Charter School Instructor)  
Benjamin Zitzer (Ph.D. 2010 – Industry)  
John Millis (Ph.D. 2008 – Anderson University faculty)  
Tony Hall (Ph.D. 2000 – University of Arkansas, Little Rock faculty)  
Radhika Srinivasan (Ph.D. 1999 – Industry)  
Sangwook Park (Ph.D. 1998 – University of Texas, Arlington faculty)

**Postdoctoral Advisees (7):**

Rodney Lessard (1996 – 2000, Industry)  
Abraham Falcone (2001 – 2005, Penn State University research faculty)  
Alexander Konopelko (2006 – 2009, deceased)  
Mark Theiling (2010 – 2013)  
Steven Brett McArthur (2014 – 2017, Industry)  
Avery Archer (2016 – 2017, DePauw University faculty)  
Michael Hedges (2018 – present)