Loreto Peter Alonzi III

School of Data Science		
University of Virginia	Phone:	(434) 924-7835
31 Bonnycastle Dr	Email:	alonzi@virginia.edu
Charlottesville, VA 22903		

Professional Experience

- Open Data Lab Project Manager and Data Scientist, School of Data Science, University of Virginia, 2018-present
- Senior Research Data Scientist, Research Data Services, University Library, 2014-2018
- Postdoctoral Research Associate, University of Washington, Department of Physics, Center for Experimental Physics and Astrophysics, 2012-2014

Education

- Ph.D. Physics, *University of Virginia*, 2012.
- M.A. Physics, *University of Virginia*, 2007.
- B.S. Physics with Honors et Magna cum Laude, *The College of William and Mary in Virginia*, 2005.

Funded Grant Proposals as PI/Co-PI

- SIWIF: Summer Institute on Wigner Imaging and Femtography $30,000
  - (PI) S.Liuti; (Co-PIs): **L.P.Alonzi**, M.Burkhardt, D.Keller, O.Pfister
  - Southeastern Universities Research Association, Inc. Grant Agreement No. C2020-FEMT-006-05
- Wigner Imaging (2019) $50,000
  - (PI) S.Liuti; (Co-PIs): **L.P.Alonzi**, M.Burkhardt, D.Keller, O.Pfister
  - Southeastern Universities Research Association, Inc. Grant Agreement No. C2019-FEMT-002-04

Selected Publications

Journal Articles

- B. Abi, et al. "Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46 ppm" (Muon $g-2$ Collaboration) Phys. Rev. Lett. 126, 141801 (2021)
- D. Blyth, et al. "First Observation of P-odd γ Asymmetry in Polarized Neutron Capture on Hydrogen" (NPDGamma Collaboration) Phys. Rev. Lett. 121, 242002 (2018)
- D. Počanić, et al. "PEN: a low energy test of lepton universality", *PoS HQL* 2016 (2017) 042
- L.P.Alonzi, et al. "The calorimeter system of the new muon g -2 experiment at Fermilab", *Nucl.Instrum.Meth. A* 824 (2016) 718-720
- Muon $g-2$ collaboration, "The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab", *J.Phys.Chem.Ref.Data* 44 (2015) no.3, 031211
- A.T. Fienberg, et al. "Studies of an array of PbF22 Cherenkov crystals with large-area SiPM readout", *Nucl.Instrum.Meth. A* 783 12-21 (2015)
- D. Počanić, et al. "Nab: Measurement Principles, Apparatus and Uncertainties", *Nucl.Instrum.Meth. A* 611, 211-215 (2009).

Presentations

Invited Talks

- "What Entropy and Impendance Mean in Data Science", Jefferson Lab AI Lunch Series, November 2020
- "Machine Learning for global fitting of CFF from sparse data", DATA SCIENCE ROADMAP TO COMPTON FORM FACTORS OF QUARKS AND GLUONS, September 2020.
- "Data Science and Femtography", CNF2019 Symposium, SURA Headquarters, August 2019.
- "Intro to Data Science", CSInstitute, July 2019.
- "The New Muon g-2 Experiment: E989 Status and Progress Update", SESAPS 81st annual meeting, November 2014.
- "Using the Library to Advance Scientific Data Practices", University of Virginia, July 2014.

- L.P. Alonzi for the PEN Collaboration, "Precision Measurements of Rare Pion Decay Channels", University of Washington, CENPA, March 2012.
- L.P. Alonzi for the Nab Collaboration, "Precision Measurement of a and b in Neutron Beta Decay", University of Virginia, January 2009.

Contributed Talks

- L.P. Alonzi for the g-2 Collaboration, "The New Muon g-2 Experiment: E989 Status and Progress Update", *APS NW Section Meeting* (2014).
- L.P. Alonzi for the PEN Collaboration, "A Mini Time Projection Chamber of the PEN Experiment", *April APS Meeting* (2010).
- L.P. Alonzi for the Nab Collaboration, "Precision Measurement of a and b in Neutron Beta Decay: The Nab/abBA Experimental Program", *April APS Meeting* (2009).

Updated: April 8, 2021