

# Loreto Peter Alonzi III

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## 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.

## Teaching Experience

### *Selected Courses*

- University of Virginia - BME 6550 - A1 Data Science - 2021
- University of Virginia - DS 6559 - Data Wrangling in Python - 2015,2016
- University of Virginia - DS 6501 - Data Wrangling in Python - 2018
- University of Virginia - DS 6999 - Independent Study - 2018
- University of Virginia - PHYS 241W - Physics Workshop - 2018

Full record see: [github.com/alonzi/cv](https://github.com/alonzi/cv)

## Funded Grant Proposals as PI/Co-PI

- SIWIF: Summer Institute on Wigner Imaging and Femtography \$50,000
  - (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 (continuation supplemental)
- 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)
- J. Grigsby, et al. "Deep learning analysis of deeply virtual exclusive photoproduction" *Phys. Rev. D* 104, 016001 (2021)
- D. Blyth, et al. "First Observation of P-odd  $\gamma$  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)

## Presentations

### *Invited Talks*

- "Introduction to R", DAACS Open Academy, Fall 2021
- "What Entropy and Impedance 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, Center for Nuclear Fentography, September 2020.
- "Data Science and Fentography", 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.

## Research Experience

- Research Associate, Professor David Hertzog (*UW*), June 2012-September 2014.
  - The New Muon g-2 Collaboration: E989, 2012-2016.
- Research Assistant, Professor Dinko Počanić (*UVa*), June 2007-May 2012.
  - The NPD $\gamma$  Collaboration
  - The PEN Collaboration
  - The Nab Collaboration
- Honors Thesis, Professor William Kossler (*W&M*), 2004-2005.

## Honors and Awards

- University of Virginia Society of Fellows, Junior Fellow, 2010.
- Eagle Scout, BSA NEIC Troop 5, 1999.

Updated: December 1, 2021