

**Brian Page**  
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## EDUCATION

Michigan State University, East Lansing, MI, M.S., Physics, 2008

Grand Valley State University, Allendale, MI, B.S., Physics, 2006

## WORK EXPERIENCE

Graduate Research Assistant (2006-2014), Michigan State University Department of Physics and Astronomy, Supervisor Dr. Carl Bromberg, Various responsibilities/duties as follows:

- Teaching Assistant for PHY192, Spring Semester 2007 Introductory physics laboratory course. Responsibilities including weekly instruction , grading.
- Teaching Assistant for PHY170, Fall Semester 2007 Introductory physics laboratory course. Responsibilities including weekly instruction, grading, some personal involvement in content.
- United States Particle Accelerator School. June 18-29, 2012. Created computer tutorial used for Liquid Argon TPC class. Assisted in teaching the material.
- NOvA, Numi Off-axis Neutrino Appearance experiment (2006-2007). Fermi National Accelerator Laboratory, Batavia, IL. Started development of wavelength-shifting fiber scanner for NOvA experiment. Wrote software for motion control and data acquisition system.
- ArgoNeuT(T962) (2007-2014) Liquid argon time projection chamber. Fermi National Accelerator Laboratory, Batavia, IL. Reconstruction software (C++ code). Particularly digital signal processing, hit-finding, track-finding, other image recognition software, data analysis, technical writing and presentations. Work on detector installation and commissioning.

## PUBLICATIONS

1. **“First Measurement of Neutrino and Antineutrino Coherent Charged Pion Production on Argon”**  
R. Acciarri *et al.* [ArgoNeuT Collaboration].  
arXiv:1408.0598 [hep-ex]
2. **“The detection of back-to-back proton pairs in Charged-Current neutrino interactions with the ArgoNeuT detector in the NuMI low energy beam line”**  
R. Acciarri *et al.* [ArgoNeuT Collaboration].  
arXiv:1405.4261 [nucl-ex]  
10.1103/PhysRevD.90.012008  
Phys. Rev. D **90**, 012008 (2014)
3. **“Scientific Opportunities with the Long-Baseline Neutrino Experiment”**  
C. Adams *et al.* [LBNE Collaboration].
4. **“Measurements of Inclusive Muon Neutrino and Antineutrino Charged Current Differential Cross Sections on Argon in the NuMI Antineutrino Beam”**  
R. Acciarri *et al.* [ArgoNeuT Collaboration].  
arXiv:1404.4809 [hep-ex]  
10.1103/PhysRevD.89.112003  
Phys. Rev. D **89**, 112003 (2014)

5. **“The Long-Baseline Neutrino Experiment: Exploring Fundamental Symmetries of the Universe”**  
C. Adams *et al.* [LBNE Collaboration].  
arXiv:1307.7335 [hep-ex]
6. **“A study of electron recombination using highly ionizing particles in the ArgoNeuT Liquid Argon TPC”**  
R. Acciarri *et al.* [ArgoNeuT Collaboration].  
arXiv:1306.1712 [physics.ins-det]  
10.1088/1748-0221/8/08/P08005  
JINST **8**, P08005 (2013)
7. **“The ArgoNeuT Detector in the NuMI Low-Energy beam line at Fermilab”**  
C. Anderson, M. Antonello, B. Baller, T. Bolton, C. Bromberg, F. Cavanna, E. Church and D. Edmunds *et al.*.  
arXiv:1205.6747 [physics.ins-det]  
10.1088/1748-0221/7/10/P10019  
JINST **7**, P10019 (2012)
8. **“Analysis of a Large Sample of Neutrino-Induced Muons with the ArgoNeuT Detector”**  
C. Anderson *et al.* [ArgoNeuT Collaboration].  
arXiv:1205.6702 [physics.ins-det]  
10.1088/1748-0221/7/10/P10020  
JINST **7**, P10020 (2012)
9. **“First Measurements of Inclusive Muon Neutrino Charged Current Differential Cross Sections on Argon”**  
C. Anderson *et al.* [ArgoNeuT Collaboration].  
arXiv:1111.0103 [hep-ex]  
10.1103/PhysRevLett.108.161802  
Phys. Rev. Lett. **108**, 161802 (2012)
10. **“The 2010 Interim Report of the Long-Baseline Neutrino Experiment Collaboration Physics Working Groups”**  
T. Akiri *et al.* [LBNE Collaboration].  
arXiv:1110.6249 [hep-ex]
11. **“The NOvA Technical Design Report”**  
D. S. Ayres *et al.* [NOvA Collaboration].

## REFERENCES

Dr. Carl Bromberg (Thesis Advisor)  
Professor of Physics  
Michigan State University  
(517) 884-5580  
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