



College of William and Mary
Curriculum Vita

PERSONAL INFORMATION

1. **Name:** Michael Alan Kordosky
Office Address: William Small Physical Laboratory
Department of Physics
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Home Address: 508 Glenn Springs
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2. Position: Assistant Professor

EDUCATION

3. Academic degrees
 - August 2004: Ph.D., Physics, University of Texas at Austin;
Supervisor: Karol Lang
Thesis: "Hadronic Interactions in the MINOS Detectors",
FERMILAB-THESIS-2004-34, UMI-31-43287-MC
Awarded "Outstanding Departmental Dissertation", University of Texas,
May 2005
 - May 1998: B.A., *magna cum laude*, Physics and Mathematics
St. John's University, Collegeville, MN, USA

ACADEMIC POSITIONS

4. Teaching and research positions
 - College of William and Mary (Williamsburg, VA); Assistant Professor
in Physics; January 2008 –

- University College London (London, England); Postdoctoral Research Fellow; August 2004 – January 2008
- University of Texas at Austin (Austin, TX); Graduate Research Assistant September 1999 – August 2004
- University of Texas at Austin (Austin, TX); Teaching Assistant; August 1998 – December 1999
- University of Texas at Austin (Austin, TX); Tutor US Navy ROTC; August 1998 – December 1999
- University of Oklahoma (Norman, OK); Summer Research Student; June – August 1997
- St. John’s University (Collegeville, MN); Teaching Assistant; September 1995 – May 1998

HONORS, PRIZES AND AWARDS

5. Professional prizes, awards, honors, editorial positions on scholarly journals, service on review boards outside the College and offices in professional societies

- Outstanding Departmental Dissertation, University of Texas, May 2005
- National Merit Scholar, 2004

COURSES TAUGHT

6. Courses taught

- Third Year Physics Project Course (University College London)
“Construction of a Portable, Segmented Cosmic-Ray Telescope”, 2005
- Third Year Physics Project Course (University College London)
“Measurement of the Moon’s Shadow Using Cosmic-Ray Muons in the MINOS Far Detector”, 2006
- Third Year Physics Project Course (University College London)
“Construction and Characterization of a Detector for β and γ radiation”, 2007

FELLOWSHIPS AND GRANTS

7. Fellowships and Grants

- a. All fellowships, grants, contracts awarded by outside agencies (None)
- b. All summer grants and Faculty Research Assignments received from William and Mary (None)

RESEARCH

8. Scholarly activity under the following separate headings with full bibliographic data

- a. Refereed publications in periodicals, chapters in books, law review articles and conference proceedings
 - P. Adamson *et al.* [MINOS Collaboration], “Measurement of neutrino velocity with the MINOS detectors and NuMI neutrino beam,” *Phys. Rev. D* **76**, 072005 (2007)
 - P. Adamson *et al.* [MINOS Collaboration], “Measurement of the atmospheric muon charge ratio at TeV energies with MINOS,” *Phys. Rev. D* **76**, 052003 (2007)
 - P. Adamson *et al.* [MINOS Collaboration], “Charge-separated atmospheric neutrino-induced muons in the MINOS far detector,” *Phys. Rev. D* **75**, 092003 (2007)
 - D. G. Michael *et al.* [MINOS Collaboration] “Observation of Muon Neutrino Disappearance with the MINOS Detectors in the NuMI Neutrino Beam”, *Phys. Rev. Lett.* **97**, 191801 (2006)
 - P. Adamson *et al.* [MINOS Collaboration], “First observations of separated atmospheric nu/mu and anti-nu/mu events in the MINOS detector,” *Phys. Rev. D* **73** (2006) 072002
 - P. Adamson *et al.*, “The MINOS calibration detector,” *Nucl. Instrum. Meth. A* **556**, 119 (2006)
 - K. Lang *et al.*, “Characterization of 1600 Hamamatsu 16-anode photomultipliers for the MINOS Far Detector,” *Nucl. Instrum. Meth. A* **545**, 852 (2005)

- S. Avvakumov *et al.*, “Spontaneous light emission from fibers in MINOS,” Nucl. Instrum. Meth. A **545**, 145 (2005)
 - P. Adamson *et al.*, “On the Linearity of the MINOS Light-Injection Calibration System,” Nucl. Instrum. Meth. A **521**, 361 (2004)
 - K. Lang *et al.*, “A Comprehensive Characterization Of Hamamatsu 16- And 64-Anode PMTs,” Nucl. Instrum. Meth. A **461**, 571 (2001)
- b. Books written (None)
- c. Edited volumes (None)
- d. Articles published in non-refereed conference proceedings
- P. Adamson *et al.* [MINOS Collaboration], ”Preliminary Results from MINOS on Muon Neutrino Disappearance Based on an Exposure of 2.5×10^{20} 120-GeV Protons on the NuMI Target,” Proceedings of the 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007, arXiv:0708.1495 [hep-ex].
 - M. Kordosky , “Hadronic interaction modeling in MINOS,” AIP Conf. Proc. **896**, 185 (2007) [arXiv:hep-ex/0701009].
 - M. Kordosky, “Ramifications of intranuclear re-scattering in MINOS” , Nucl. Phys. Proc. Suppl. **159**, 223 (2006) [arXiv:hep-ex/0602029]
- e. Invited scholarly papers and talks
- “MINOS Results: ν_μ Disappearance over a Long Baseline”, university seminar, Royal Holloway, University of London, U. K. , March 21, 2007
 - “Understanding Nature’s Shyest Particle”, university colloquia, Texas A & M University, March 29, 2007 and College of William and Mary, February 16, 2007
 - “MINOS Experience With Things Hadronic”, Hadronic Shower Simulations Workshop, Fermi National Accelerator Laboratory, Batavia, IL, September 6-8, 2006

- “MINOS Oscillation Results From the First Year of Beam Exposure”, CERN seminar in conjunction with the Sixth International Workshop on Neutrino Beams and Instrumentation (NBI06), CERN, September 5, 2006,
- “Neutrino Interactions in the MINOS Near Detector”, Eighth International Workshop on Neutrino Factories, Superbeams and Betabeams (NuFact06), Irvine, CA, August 27, 2006
- “First MINOS Results from the NuMI beam”, university seminars, Imperial College London, U. K. , May 25, 2006 and Warwick University, Coventry, U. K. , May 18, 2006
- “Intranuclear modeling and testing for MINOS”, IV International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NuInt05), Okayama, Japan, September, 2005
- “Status of MINOS”, V International Conference on Non-Accelerator New Physics (NANP05), Dubna, Russia, June 2005

f. Contributed scholarly papers and talks

- “Neutrino Interactions in the MINOS Near Detector”, October 2007 meeting of the American Physical Society, Division of Nuclear Physics, Session HF
- “Test-beam Measurements with the MINOS Calibration Detector”, April 2003 meeting of the American Physical Society, Session K13

g. Reviews of books, software, etc. (None)

h. Juried shows, exhibitions, and performances (None)

i. Unjuried shows, exhibitions, and performances (None)

j. Unrefereed publications not listed above (None)

k. Research reports from grant or contract work (None)

l. Performances by others of music, poetry, etc. you have written (None)

m. Published software, audio, multimedia, etc. materials (None)

- n. Work in progress or submitted
 - P. Adamson *et al.* [MINOS Collaboration], “A Study of Muon Neutrino Disappearance Using the Fermilab Main Injector Neutrino Beam,” in submission to Phys. Rev. D
- o. Other scholarly activity, including papers presented at professional meetings and publications of abstracts (None)

PROFESSIONAL SERVICE

9. Professional Service Activities

- a. College committee service (None)
- b. Other professional service not included in item 5 above
 - Collaborator, “Main Injector Experiment: ν -A” (MINER ν A), September 2007 – present
 - MINOS Near Detector Physics Coordinator, October 2007 – present
 - MINOS UK Computing Coordinator, December 2004 – present
 - Collaborator, “Main Injector Neutrino Oscillation Search” (MINOS), December 1999 – present
 - International Organizing Committee, Fifth International Workshop on Neutrino-Nucleus Interactions in the Few-GeV Region (NuInt07), Fermilab, Batavia, IL, May 30, 2007 - June 3, 2007