

CURRICULUM VITÆ

Aaron Owen Morris

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EDUCATION:

- NORTHERN ILLINOIS UNIVERSITY, DeKalb, IL
 - M.S., Physics
 - Thesis topic: Muon Collider Background Simulations
 - Advisor: Dr. David Hedin, Professor of Physics
- UNIVERSITY OF CINCINNATI, Cincinnati, OH
 - M.A., Geography
 - Thesis topic: *A Geographic Analysis of the Cruise Industry*
 - Advisor: Dr. Robert South, Associate Professor of Geography
- UNION COLLEGE, Schenectady, NY
 - B.A., Astronomy, with minor in Physics, June 2006
 - Thesis: *Multifrequency VLBI Study of the CSO 0026+346*
 - Advisor: Dr. Jonathan Marr, Associate Professor of Physics & Astronomy
 - B.S., Organizing Theme: Human Geography, June 2006
 - Thesis: *The Sustainability of the Caribbean Cruise Industry*
 - Advisor: Dr. Sharon Bohn Gmelch, Professor of Anthropology
 - HONORS:
 - Union College Scholars Program
 - Presidential Scholar (Union College)
 - Sigma Pi Sigma (National Physics Honor Society)
 - Sigma Xi (Scientific Research Honor Society)
 - Iota Sigma Pi – Honorary (National Women's Chemist Honor Society)
 - Dean's List

ASTRONOMY/ASTROPHYSICS/PHYSICS:

RESEARCH EXPERIENCE:

- Muon collider background simulations / G4Beamline / ROOT, with Drs. Steve Kahn (Brookhaven National Laboratory / Muons, Inc.), Mary Anne Cummings (Muons, Inc. / Northern Illinois University), David Hedin (Northern Illinois University), and Joseph Kozminski (Lewis University), Fermi National Accelerator Laboratory, Batavia, IL
- Gigahertz-peaked spectrum (GPS) sources / Active galactic nuclei (AGN) / 0026+346 NRAO-VLBA proposal (BM203), with Professor Jonathan Marr, Department of Physics and Astronomy, Union College, Schenectady, NY

- The Interrelationship of Science and Science Fiction in Literature, with Professor Steve Sargent, Chair, Department of History, Union College, Schenectady, NY

ACADEMIC PRESENTATIONS:

- *Monte Carlo Simulations of Detector Backgrounds at a Muon Collider*, March 27, 2011, PAC'11 Student Poster Session, New York, NY
- *Monte Carlo Simulations of Detector Backgrounds at a Muon Collider*, October 8, 2010, Workshop on Detector R&D, Fermi National Accelerator Laboratory, Batavia, IL
- *Preliminary Results of G4Beamline Modeling of GeV Energy Electrons on Various Targets*, August 12, 2010, Research group meeting, Fermi National Accelerator Laboratory, Batavia, IL
- *10 Even More Really Cool Things About Astronomy*, April 10, 2010, Northern Illinois University, DeKalb, IL
- *Super High Resolution Analysis of a Compact Radio Galaxy*, May 5, 2006, Charles Steinmetz Symposium, Union College, Schenectady, NY
- *Multi-Frequency VLBI Study of the CSO 0026+346*, April 6, 2006, National Conference on Undergraduate Research, the University of North Carolina – Asheville, Asheville, NC
- *An ultra-high resolution study of the recently classified CSO 0026+346*, March 30, 2006, Union College Department of Physics & Astronomy, Schenectady, NY
- *Multi-frequency VLBI Study of the CSOs 0026+346 and 1321+410*, January 12, 2005, 207th Meeting of the American Astronomical Association, Washington, D.C.
- *A Brief Tour of the “Visible” Universe*, April 30, 2005, Suva, Republic of the Fiji Islands
- *Multi-frequency VLBA Observations of 19 Candidate Compact Symmetric Objects*, October 23, 2004, Astronomical Society of New York Fall Meeting, Rensselaer Polytechnic Institute, Troy, NY
- *Better Homes and Gardens on Mars: Views of Terraforming the Red Planet as Science [Fiction]*, August 22, 2004, Seventh International Conference of the Mars Society, Chicago, IL
- *Infants of the Universe: Identifying Young Radio Galaxies*, July 20, 2004, Union College Summer Science Seminar Series, Union College, Schenectady, NY
- *Better Homes and Gardens on Mars: Views of Terraforming the Red Planet as Science [Fiction]*, May 7, 2004, Charles Steinmetz Symposium, Union College, Schenectady, NY
- *Better Homes and Gardens on Mars: Views of Terraforming the Red Planet as Science [Fiction]*, April 17, 2004, Rochester Symposium for Physics Students – Astronomical Society of New York Joint Meeting, University of Rochester, Rochester, NY
- *Super Resolution Studies of Gigahertz Peaked Spectrum Sources*, July 15, 2003, Union College Summer Science Seminar Series, Union College, Schenectady, NY
- *Tour of the Solar System Astronomy Lectures*, Various Dates, Union College, Schenectady, NY
- *General Astronomy Lectures*, July 11, 2003, Camp College for Minority Students, Union College, Schenectady, NY

PAPERS AND PROPOSALS:

- Taylor, Marr, Converse, & Morris, in preparation, *Identification of Potential CSOs from the 19 CJ2 Sources*

- BM 203: *Multifrequency VLBI Study of the CSO Candidates 0026+346 and 1321+410*, Accepted by the National Radio Astronomy Observatory (June 22, 2004), with Professor Jonathan Marr, Department of Physics and Astronomy, Union College, Schenectady, NY and Greg Taylor, NRAO
- *The Science [Fiction] Of Terraforming Mars*, (June 2004), Honors Sophomore Project (under Professor Steven Sargent, Chair, Department of History), Union College, Schenectady, NY

SOCIAL SCIENCES (ANTHROPOLOGY/GEOGRAPHY/TOURISM):

RESEARCH EXPERIENCE:

- Demographic analysis of the North American cruise industry, with Professor Robert South, Department of Geography, University of Cincinnati, Cincinnati, OH
- U.S. tourism potential in Cuba, with Professor Robert South, Department of Geography, University of Cincinnati, Cincinnati, OH
- Cruise tourism in the Caribbean, with Professor Sharon Bohn Gmelch, Department of Anthropology, Union College, Schenectady, NY
- Ecotourism in the Republic of the Fiji Islands, with Professor Karen Brison, Chair, Department of Anthropology, Union College, Schenectady, NY
- Urban Development and Theory in Science Fiction, with Professor Derek Pardue, Department of Anthropology, Union College, Schenectady, NY

ACADEMIC PRESENTATIONS:

- *Analysis of Cruise Passenger Origins in the North American Market*, April 17, 2008, 2008 Annual Meeting of the Association of American Geographers, Boston, MA
- *Where you want to go to get away from it all: A Theoretical Model of Cruise Tourist Behavior*, April 20, 2007, 2007 Annual Meeting of the Association of American Geographers, San Francisco, CA
- *Cruise Ship Tourism in the Caribbean: Sustainable Tourism for Small Island States or the Worst Example of Mass Tourism?*, May 5, 2006, Charles Steinmetz Symposium, Union College, Schenectady, NY
- *Is sustainability incompatible with the cruise ship industry?*, April 8, 2006, National Conference on Undergraduate Research, the University of North Carolina – Asheville, Asheville, NC
- *Is sustainability incompatible with the cruise ship industry?*, March 8, 2006, 2006 Annual Meeting of the Association of American Geographers, Chicago, IL
- *Fiji – Spring Term Abroad 2005*, September 22, 2005, Union College Chemistry Club, Union College, Schenectady, NY

PROFESSIONAL ACTIVITIES:

- JOURNAL OF TRAVEL AND TOURISM MARKETING: Peer reviewer for a special issue on “Geography and Tourism Marketing,” 2007

TEACHING AND WORK EXPERIENCE:

- Instructor (Teaching Assistant), Department of Physics, Northern Illinois University, DeKalb, IL
 - Physics 210: General Physics I Lab, Mr. Lyle Marshand
- Teaching Assistant, Department of Physics, Northern Illinois University, DeKalb, IL
 - Physics 253: Fundamentals of Physics I: Mechanics, Dr. Suzanne Willis, Dr. Gerald Blazey
- Lab Technician, Department of Physics, Northern Illinois University, DeKalb, IL
 - Physics 253: Fundamentals of Physics I: Mechanics, Dr. Gerald Blazey
 - Physics 210: General Physics I, Mr. Lyle Marshand
- Teaching Assistant, Department of Geography, University of Cincinnati, Cincinnati, OH
 - Geography 211: Geography of Latin American, Dr. Robert South
 - Geography 102: Introduction to Physical Geography: Landforms, Dr. Nicholas Dunning
 - Geography 101: Introduction to Physical Geography: Meteorology & Climatology, Dr. Kenneth Hinkel
- Instructor (Teaching Assistant), Department of Geography, University of Cincinnati, Cincinnati, OH
 - Geography 112: Introduction to Physical Geography: Landforms Lab, Dr. Richard Beck
 - Geography 111: Introduction to Physical Geography: Meteorology & Climatology Lab, Dr. Kenneth Hinkel
- Physics Crisis [Avoidance] Center, Department of Physics and Astronomy, Union College, Schenectady, NY
- Community Outreach – Union College Observatory Open Houses, Department of Physics and Astronomy, Union College, Schenectady, NY
- Private tutor in the fields of high school physics, high school geometry, high school trigonometry, and high school creative writing for students of Adlai E. Stevenson High School (District 125), Lincolnshire, IL
- Teaching Assistant, Elementary School District No. 76, Mundelein, IL

PROFESSIONAL SOCIETIES:

- American Astronomical Society (AAS) – Junior Member
- Society of Physics Students (SPS)
- American Chemical Society – Member
- American Anthropological Association (AAA) – Student Member, Melanesia Interest Group (MIG), National Association of Student Anthropologists (NASA), Society for Latin American and Caribbean Anthropology (SLACA), Scholarly Communications Interest Group (SCIG), Society for Visual Anthropology (SVA)
- Professional Association of Diving Instructors (PADI) – Open Water SCUBA certification