

CURRICULUM VITA

NAME: Wesley H. Smith

OFFICE: Physics Department, 4275 Chamberlin Hall, University of Wisconsin
1150 University Ave., Madison, WI 53706
608-262-4690, Fax: 608-263-0800, Messages: 608-262-2281

EMAIL: wsmith@hep.wisc.edu

HOME PAGE: <http://www.hep.wisc.edu/wsmith>

EDUCATION: A.B./A.M. in Physics, Harvard University 1976
Ph.D. in Physics, University of California at Berkeley 1981

AWARDS: National Science Foundation Presidential Young Investigator Award 1984
Exxon Education Foundation Award 1984
Department of Energy Outstanding Junior Investigator Award 1987
Vilas Associate, University of Wisconsin 1995
Election to Fellowship, American Physical Society 1996
WARF Kellet Mid-Career Faculty Researcher Award, U. Wisconsin 1999
Named Professorship, University of Wisconsin - Madison 2006
High Energy and Particle Physics Prize of the European Physical Society (awarded jointly to CMS and ATLAS Collaborations) 2013
American Physical Society W.K.H. Panofsky Prize in Experimental Particle Physics (sole recipient) 2020
Breakthrough Prize in Fundamental Physics (awarded jointly to ATLAS, CMS, ALICE and LHCb Collaborations) 2025

EXPERIENCE: Research Associate, Columbia University 1981
Assistant Professor, Columbia University 1982
Associate Professor, Columbia University 1987
Associate Professor, University of Wisconsin - Madison 1988
Professor, University of Wisconsin - Madison 1992
Bjorn Wiik Professor of Physics, University of Wisconsin - Madison 2006
Professor Emeritus, University of Wisconsin - Madison 2018

PROFESSIONAL SERVICE:

- Organizer, APS Washington Meeting. 1985-86
- Tevatron Association of Fixed Target Spokespersons (Fermilab). 1986-88
- Spokesman, Fermilab E-770: CCFR Neutrino Experiment. 1986-98
- Panel Member, NSF Physics Division Research Experiences for Undergraduates Program Advisory Board. 1987
- Chairman, NSF Physics Division Research Experiences for Undergraduates Program Advisory Board. 1988
- Organizer, FNAL Conference on New Directions in Neutrino Physics 1988

- Panel Member, NSF Presidential Young Investigator Advisory Board. 1988
- Referee Physical Review & Physical Review Letters. 1988-
- Technical Coordinator (Trigger), Zeus Experiment, DESY, Hamburg. 1988-93
- International Advisory Committee, Neutrino '90 Conference, CERN, Switzerland. 1989
- Deputy Spokesman, Fermilab E-790: Zeus Barrel Calorimeter Test. 1989-91
- Panel Member & Session Chair, R & D Triggering and Data Acquisition Systems for SSC Experiments 1990
- Reviewer, Nuclear Science Symposium of the IEEE. 1990-
- Technical Board Member & Technical Steering Committee Chairman Solenoidal Detector Collaboration, SSC 1990-93
- Regional Coordinator, National SSC Coalition. 1991-93
- Program Chairman, IEEE Nuclear Science Symposium, Orlando, FL. 1992
- Scientific Spokesman, Trigger System, Solenoidal Detector Collaboration, SSC. 1992-93
- Chair, Director's Review of D0 Computing, Fermilab, IL. 1993
- Trigger Convener, Zeus Experiment, DESY, Hamburg. 1993-07
- National Science and Engineering Research Council Review of the HERMES Experiment, TRIUMF, Vancouver, Canada. 1993
- Convener, QCD Working Group, American Physical Society Division of Particles and Fields Panel on Long Term Planning 1994
- Organizer, DPF Workshop on QCD, Madison, WI. 1994
- U.S. Coordinator, Trigger System, Compact Muon Solenoid Detector, CERN. 1994-97
- Session Chair, Workshop on LHC Computing, International Conference on Computing in High Energy Physics. 1994
- U.S. Management Board, Compact Muon Solenoid Detector, CERN. 1994-
- Project Manager, Trigger System, Compact Muon Solenoid Detector, CERN. 1994-07
- LHC Electronics Review Board, CERN. 1994-96
- Management Board, Compact Muon Solenoid Detector, CERN. 1994-12
- Organizing Committee, Topics in Particle Physics with CMS, UCLA. 1995
- Proposal Reviewer, Department of Energy 1995-
- Proposal Reviewer, National Science Foundation 1995-
- Chair, U.S. Zeus Executive Committee, DESY 1995-97
- Organizing Committee, Conf. on Electronics for LHC Experiments, Lisbon, Portugal. 1995
- Zeus Planning Group, DESY 1995-97
- Zeus Executive Committee, DESY 1995-
- Department of Energy High Energy Physics subpanel on Accelerator-Based Neutrino Oscillation Experiments 1995
- Department of Energy High Energy Physics Advisory Panel 1995-98
- National Science Foundation High Energy Physics Review Panel 1995-96
- Advisory Committee, Division of Particles and Fields Sessions at 1996 American Physical Society Meeting, Indianapolis, IN 1995-96
- Organizing Committee, 1996 Meeting of the Division of Particles and Fields, Minneapolis, MN 1995-96
- Convener, QCD Working Group, Division of Particles and Fields Study of New Directions in Particle Physics, Snowmass, CO 1996
- LHC Electronics Board, CERN. 1996-01

- Organizing Committee and Panel Member, Second Conference on Electronics for LHC 1996 Experiments, Balaton, Hungary
- Organizing Committee and Session Chair, Third Conference on Electronics for LHC 1997 Experiments, London, England
- Level 2 Manager, Trigger Systems, US. Project for the Compact Muon Solenoid Detector, 1997-CERN.
- Steering Committee, Compact Muon Solenoid Detector, CERN. 1997-06
- Chair and Organizer, International Meeting of the CMS Collaboration in Madison 1997
- Session Chair & Presenter, DoE Office of Energy Research Scientific Themes Conference 1998
- Department of Energy Outstanding Junior Investigator Selection Panel. 1998-99
- American Physical Society Division of Particles & Fields Nominating Committee 1998-99
- Member, US-CMS Project Management Group 1998-
- Organizing Committee and Session Chair, Fourth Conference on Electronics for LHC 1998 Experiments, Rome, Italy
- Zeus Editorial Panel, DESY 1998-
- Chair, Organizing Committee, Fifth Conference on Electronics for LHC Experiments, 1999 Snowmass, CO.
- Chair, American Physical Society Division of Particles & Fields Nominating Committee 1999
- Co-Chair, Aspen Winter Conference on Particle Physics 2000
- Organizing Committee and Session Chair, Sixth Conference on Electronics for LHC 2000 Experiments, Krakow, Poland
- Member, Department of Energy Trans-Atlantic Network Committee 2001
- Organizing Committee and Session Chair, Seventh Conference on Electronics for LHC 2001 Experiments, Stockholm, Sweden
- Particle Physics and Technology Working Group Convener, American Physics Society 2001 Summer Study on the Future of Particle Physics, Snowmass, CO.
- Member, CMS Electronics Systems Steering Committee 2001-
- Organizing Committee and Session Chair, Eighth Conference on Electronics for LHC 2002 Experiments, Colmar, France.
- Executive Committee, US LHC Collaborators Organization 2002-
- Member, Ad-Hoc Working Group on LHC Experiment-Machine Parameter and Signal 2002-3 exchange, CERN
- Chair, U.S. Zeus Executive Committee, DESY 2003-6
- Organizing Committee, Ninth Conference on Electronics for LHC Experiments, 2003 Amsterdam, Netherlands.
- Member, LHC Experiment Machine Data Exchange Working Group, CERN 2003-
- Consultant, Annual DoE Review of Fermilab 2003
- Member, Machine Experiment Interface Working Group, European Steering Group on 2003-4 Accelerator R&D
- Organizing Committee and Session Chair, Ninth Conference on Electronics for LHC 2003 Experiments, Amsterdam, Netherlands.
- Consultant, Annual DoE Review of Fermilab 2004
- Organizing Committee and Session Chair, Tenth Conference on Electronics for LHC 2004 Experiments, Boston, MA.
- Conference Chairman, 13th International Workshop on Deep Inelastic Scattering, (DIS'05) 2005 Madison, WI.

- Organizing Committee and Session Chair, Eleventh Conference on Electronics for LHC 2005 Experiments, Heidelberg, Germany
- NSF Review Panel, Center for the Study of the Origin and Structure of Matter, Hampton College, VA. 2005
- Proposal Reviewer, Israeli Science Foundation 2005-
- Fermilab Remote Operations Center Review Committee 2005
- CMS SLHC Upgrade Steering Group 2005-
- Task Manager & Principle Investigator High Energy Physics Grant, UW-Madison 2005-20
- International Advisory Committee, 14th International Workshop on Deep Inelastic Scattering, Tsukuba city, Japan. 2006
- Member, Zeus Planning Group, DESY 2006-7
- Referee, Journal of High Energy Physics 2006-
- Organizing Committee and Session Chair, Twelfth Conference on Electronics for LHC Experiments, Valencia, Spain 2006
- Vice-Chairman, Department of Energy and National Science Foundation High Energy Physics Subpanel on the University Research Program 2006-7
- Referee, Journal of Measurement Science and Technology (Institute of Physics) 2006-
- Organizing Committee, Workshop on R&D for the SLHC, CERN. 2007
- International Advisory Committee, 15th International Workshop on Deep Inelastic Scattering, Munich, Germany. 2007
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Prague, Czech Republic. 2007
- CMS Trigger Coordinator 2007-12
- CMS Executive Board Member 2007-12
- Chair, CMS SLHC Calorimeter Trigger Workshop, U. Wisconsin, Madison WI 2007
- LHeC Steering Committee member, CERN. 2007-10
- Panel Member, HEP University Funding, Aspen Winter Conference on Particle Physics 2008
- Co-Chair, CMS SLHC Trigger Workshop, École Polytechnique, Paris. 2008
- Organizing Committee, Topical Workshop on Electronics for Particle Physics, Naxos, Greece 2008
- International Advisory Committee, 16th International Workshop on Deep Inelastic Scattering, London, England. 2008
- Chair, CMS Upgrade Peer Review Panel 2008-13
- Member, CMS Upgrade Management Board 2008-11
- Reviewer, United States – Israel Binational Science Foundation 2008-18
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Paris, France. 2009
- International Advisory Committee, 17th International Workshop on Deep Inelastic Scattering, Prague, Czech Republic. 2009
- Organizing Committee, ATLAS CMS Electronics for the SLHC (ACES II), CERN 2009

- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Aachen, Germany. 2010
- International Advisory Committee, 18th International Workshop on Deep Inelastic Scattering, Florence, Italy. 2010
- International Referee for the FNRS (National Science Foundation) for French-speaking Belgium 2010-20
- US CMS Upgrade Steering Committee 2011-15
- Organizing Committee, ATLAS CMS Electronics for the SLHC (ACES III), CERN 2011
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Vienna, Austria. 2011
- International Advisory Committee, 19th International Workshop on Deep Inelastic Scattering, Newport News, VA. 2011
- National Advisor, American Physical Society Division of Particles and Fields Taskforce on Instrumentation. 2011
- Reviewer, Physics Letters B. 2011-18
- DOE Fusion Energy Sciences Advisory Committee (FESAC) International Collaboration Panel 2011
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Oxford, England. 2012
- Co-Chair, CMS Trigger Performance & Strategy Working Group 2012-15
- Panel Member, US DOE Review of the US ATLAS Operations Program 2013
- Local Organizing Committee, American Physical Society Division of Particles and Fields Community Summer Study. 2013
- Energy Frontier and Electronics/DAQ Liaison for the Instrumentation Frontier, American Physical Society Division of Particles and Fields Community Summer Study. 2013
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Perugia, Italy. 2013
- Co-Convener for Trigger, Data Acquisition and Computing, European Committee for Future Accelerators Workshop on the High Luminosity LHC, Aix-les-Bain, France. 2013
- CMS Young Researchers Prize Committee 2013
- Trigger Project Manager, US CMS Upgrade Project 2013-16
- US CMS Phase 2 R&D Committee, Trigger & DAQ Subcommittee Chair 2013-14
- Program Committee and Session Chair, Fourth ATLAS and CMS joint workshop on electronics for the High Luminosity LHC (ACES), CERN. 2014
- Organizer and Chair, European Committee for Future Accelerators on the High Luminosity LHC Trigger, Online, Offline and Computing Preparatory Group Workshop, CERN. 2014
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Aix-en-Provence, France. 2014
- Member, Coordinating Panel for Advanced Detectors (CPAD), Division of Particles and Fields, American Physical Society. 2014-18
- Co-Convener for Trigger, Online, Offline and Computing, European Committee for Future Accelerators Workshop on the High Luminosity LHC, Aix-les-Bain, France. 2014
- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Lisbon Portugal. 2015
- Panel Member, DOE National Laboratory Energy Frontier Program Review 2015
- US CMS HL-LHC Calorimeter Trigger Upgrade Project Manager 2016-18

- Organizing Committee and Session Chair, Topical Workshop on Electronics for Particle Physics, Karlsruhe, Germany. 2016
- Panel Member, DOE Comparative Review of HEP-supported National Laboratory Detector Research and Development 2016
- Panel Member and Reviewer, Canada Foundation for Innovation 2016-
- Referee, Journal of High Energy Physics 2016-
- Panel Member, NSF HL-LHC Detector Upgrade Preliminary Design Review: ATLAS 2017-18
- Panel Member, DOE OHEP Institutional Review of Brookhaven National Lab 2018
- Panel Member, NSF HL-LHC Detector Upgrade Final Design Review: ATLAS 2018-19
- Referee, Research Corporation for Scientific Advancement (Cottrell Scholars) 2018-19
- Referee, Institute of Physics (IOP), Physica Scripta. 2020-
- Member, American Physical Society 2021 Panofsky Prize Selection Committee 2020
- Panel Member, NSF HL-LHC Detector Upgrade Rebaseline Review: ATLAS 2023
- Reviewer, Internal US CMS Review of the transition of the US HGCal effort to the operations program 2024

INVITED TALKS:

1982

- Seminar at Stanford Linear Accelerator Summer Institute on Particle Physics: A Search for Neutrino Oscillations with $\Delta M^2 > 20 \text{ eV}^2$.

1983

- Seminar at Stanford Linear Accelerator Center: Neutrino Production of Charm from the CCFRR Experiment.
- Colloquium at Lawrence Berkeley Lab: Neutrino Production of Charm from the CCFRR Experiment
- Colloquium at CERN: A Search for Inclusive Oscillations of Muon Neutrinos in the Mass Range, $20 < \Delta M^2 < 900 \text{ eV}^2/c^4$
- Speaker, International Europhysics Conference on High Energy Physics, Brighton, England: A Search for Inclusive Oscillations of Muon Neutrinos in the Mass Range, $20 < \Delta M^2 < 900 \text{ eV}^2/c^4$

1984

- Seminar, University of Maryland: Limits on Muon Neutrino Oscillation.
- Colloquium, Fermilab: Neutrino Production of Dimuons.
- Colloquium, Columbia University: Neutrino Production of Dimuons.
- Speaker, Neutrino '84 Conference, Nordkirchen, Germany: Neutrino Production of Dimuons
- Speaker, Stanford Summer School on High Energy Physics: Neutrino Production of Dimuons.

1985

- Colloquium at CERN: Neutrino Production of Dimuons
- Speaker, International Europhysics Conference on High Energy Physics, Bari, Italy: Neutrino Production of Dimuons.
- Speaker, Fermilab Workshop on Gas Calorimetry: Flash ADC Readout of Hadron Showers in Drift Chambers.
- Colloquium, Columbia University: High Energy Neutrino Physics.

1986

- Seminar, Michigan State University: Neutrino Production of Dimuons.
- Speaker, Fermilab Workshop on Beam Dump Physics: Beam Dump Physics with the CCFR Detector.
- Speaker, Neutrino '86 Conference, Sendai, Japan: Neutrino Production of Dimuons
- Seminar, Stanford Linear Accelerator Center: Recent Results from the CCFR Neutrino Experiment.
- Speaker, Snowmass Summer Study, Snowmass, CO.: Front End Electronics for the Zeus Calorimeter.
- Colloquium, Zeuthen Institute, East Germany: Recent Results from the CCFR Neutrino Experiment.

1987

- Colloquium, Columbia University: Neutrino Production of Dimuons.
- Seminar, University of Wisconsin: Neutrino Production of Dimuons.
- Seminar, Syracuse University: Neutrino Production of Dimuons
- Seminar, University of California, Los Angeles: Neutrino Production of Same Sign Dimuons.
- Seminar, Argonne National Lab: Neutrino Production of Same Sign Dimuons.
- Colloquium, University of California, Los Angeles: Probing the Proton with Lepton Microscopes.
- Speaker, Stanford Summer School on High Energy Physics: Neutrino Production of Same Sign Dimuons.
- Colloquium, DESY, Hamburg, Germany: Neutrino Production of Same Sign Dimuons.

1988

- Plenary Speaker, American Physical Society Annual Meeting, Baltimore, MD: Neutrino Production of Dimuons.
- Speaker, Neutrino '88, Boston, MA: Review of Multilepton Production.
- Plenary Speaker, Division of Particles and Fields Summer Study on Physics in the 1990's, Snowmass, CO.: New Particles in ep Collisions.
- Speaker, Workshop on New Directions in Neutrino Physics, Fermilab: Multilepton Production by Neutrinos
- Colloquium, University of Wisconsin: Neutrino Production of Dimuons.
- Colloquium, Los Alamos National Lab, NM: Neutrino Production of Dimuons.
- Seminar, University of Florence, Italy: Neutrino Production of Dimuons.
- Seminar, University of Florence, Italy: New Particles in ep Collisions.

1989

- Speaker, Workshop on Triggering and Data Acquisition at the SSC, Toronto, Canada: The Zeus First Level Calorimeter Trigger.
- Speaker, Workshop on Calorimetry for the Superconducting Supercollider, Tuscaloosa, AL.: A Pipelined Calorimeter First Level Trigger.
- Speaker, SSC Workshop on Trigger Algorithms, Berkeley, CA.: Pipelining.

1990

- Colloquium, Oxford University, Oxford, England: Recent Results from the CCFR Experiment at FNAL.
- Colloquium, University of Toronto, Toronto, Canada: Recent Results from the CCFR Experiment at FNAL.
- Invited Talk, Neutrino 1990, CERN, Switzerland: Nucleon Structure Functions from ν_μ - Fe Scattering at the Tevatron.
- Plenary Speaker, Division of Particles and Fields Summer Study on Research Directions for the Decade, Snowmass, CO.: Electron-Proton Collider Experiments and Detectors.
- Colloquium, University of Wisconsin: Probing the Proton with Lepton Microscopes.
- Plenary Speaker, IEEE Nuclear Science Symposium, Washington, DC: High Energy Physics Data Acquisition and Trigger Systems.
- Seminar, University of Michigan, Ann Arbor, MI.: Nucleon Structure Functions from ν_μ - Fe Scattering at the Tevatron.
- Seminar, University of California, Santa Cruz, CA.: Electron-Proton Collider Experiments and Detectors.

1991

- Invited Talk, SSC Physics Symposium, Madison, WI.: The SDC Detector.
- Seminar, Lawrence Berkeley Laboratory, CA.: The Zeus Detector at the HERA ep Collider.
- Invited Talk, Joint International Lepton-Photon Symposium & Europhysics Conference on High Energy Physics, Geneva, Switzerland: Electroweak Results from the CCFR Experiment.
- Invited Talk, Particles and Fields 1991, Vancouver, Canada: The SDC Detector.
- Invited Talk, Particles and Fields 1991, Vancouver, Canada: Electroweak Results from the CCFR Experiment.

1992

- Invited Talk, Neutrino '92, Granada, Spain: Neutrino Production of Dimuons at the Fermilab Tevatron.
- Invited Talk, SLAC Summer Institute, Stanford, CA: Neutrino Scattering Results from CCFR.
- Colloquium, University of Wisconsin: Probing Nucleons with High Energy Neutrinos.

- Invited Talk, Computing in High Energy Physics, Annecy, France: The SDC Trigger.
- Invited Talk, Colliding Beam Conference, Yale University, New Haven, CN: New Physics at e-p Colliders.

1993

- Seminar, University of Maryland, College Park, MD: Recent Results on ep Scattering from Zeus.
- Invited Talk, SSC Physics Symposium, Madison, WI.: Recent Results on ep Scattering from Hera.
- Seminar, Fermilab, Batavia, IL: Recent Results on ep Scattering from Zeus.
- Seminar, DESY, Hamburg, Germany: Neutrino Scattering Results from CCFR.
- Invited Talk, International Europhysics Conference on High Energy Physics, Marseille, France: Next to Leading Order QCD Analyses of Neutrino Structure Functions and Charm Production.
- Seminar, CERN, Geneva, Switzerland: Neutrino Scattering Results from CCFR.
- Invited Talk, HERA Workshop on Internal Target Physics, DESY, Hamburg, Germany: SSC Electronics Developments.
- Seminar, University of Michigan, Ann Arbor, MI: Neutrino Scattering Results from CCFR.
- Seminar, University of Chicago, IL: Recent Results on ep Scattering from Zeus.
- Seminar, University of Wisconsin, Madison, WI: Neutrino Scattering Results from CCFR.
- Seminar, University of Wisconsin, Madison, WI: Recent Results on ep Scattering from Zeus.

1994

- Colloquium, University of Wisconsin, Madison, WI: Probing Hadronic Substructure at HERA.
- Invited Talk, "Physics Doesn't Stop Symposium", Madison, WI.: Recent Results from HERA.
- Seminar, University of Iowa, Iowa City, IA: Neutrino Scattering Results from CCFR.
- Invited Talk, Eighth Meeting of the Division of Particles and Fields, Albuquerque, NM: The Level-1 Calorimeter Trigger for the CMS Detector.
- Invited Talk, Eighth Meeting of the Division of Particles and Fields, Albuquerque, NM: Recent Results from the CCFR Neutrino Experiment at the Tevatron.
- Invited Talk, Eighth Meeting of the Division of Particles and Fields, Albuquerque, NM: Measurement of the Proton Structure Function F_2 from the 1993 HERA Data.
- Colloquium, Florida State University, Tallahassee, FL: Recent Results on ep scattering from ZEUS.

1995

- Invited Talk, Topics in Particle Physics with CMS, University of California, Los Angeles, CA: Triggering the CMS Detector.
- Invited Talk, First Workshop on Electronics for LHC Experiments, Lisbon, Portugal: CMS Calorimeter Circuits.
- Seminar, University of California at Davis: Recent Results on ep Scattering from Zeus.
- Invited Talk, IEEE Nuclear Science Symposium, San Francisco, CA: CMS Calorimeter Circuits.
- Invited Talk, Detector Data Link Workshop, CERN, Switzerland: CMS Trigger Level-1 Links.

1996

- Invited Plenary Talk, Division of Particles and Fields 1996 Summer Study on New Directions in Particle Physics, Snowmass, CO: QCD Working Group Report.
- Two Invited Lectures, Stanford Summer Institute on Particle Physics, Stanford, CA: QCD with ep Colliders.
- Invited Talk, Second Workshop on Electronics for the LHC, Balatonfured, Hungary: CMS Calorimeter Trigger Implementation and Performance.
- Colloquium, University of Wisconsin: QCD Studies at HERA.
- Seminar, University of Chicago: QCD Studies at HERA.
- Seminar, University of Michigan: QCD Studies at HERA.

- Seminar, University of California, Los Angeles: Measurements of Photoproduction and Diffraction at HERA.
- Colloquium, University of California, Los Angeles: QCD Studies at HERA.

1997

- Invited Talk, International Workshop on LHC-CMS, Kaist, Taejeon, Korea: The CMS Trigger.
- Invited Talk, Third Workshop on Electronics for the LHC, London, England: High-speed Data Processing for CMS Calorimeter Trigger.
- Colloquium, Northwestern University, Evanston, IL: ep Collisions with the Zeus Detector at HERA.

1998

- Seminar, Michigan State University, Lansing, MI: ep Collisions with the Zeus Detector at HERA.
- Invited Talk, Fourth Workshop on Electronics for the LHC, Rome, Italy: CMS Calorimeter Trigger Receiver System.
- Seminar, Rice University, Houston, TX: CMS and Heavy Ions.
- Seminar, MIT, Boston, MA: Triggering High Energy Physics Experiments.

1999

- Invited Talk, UW-Madison Physics Department Centennial Celebration: High Energy Physics in the Next Millennium.
- Seminar, University of Florida, Gainesville, FL: ep Collisions with the Zeus Detector at HERA.

2000

- Invited Talk, Sixth Workshop on Electronics for the LHC, Krakow, Poland: CMS Regional Calorimeter Trigger High Speed ASICs.
- Plenary Speaker, IEEE Nuclear Science Symposium, Lyon, France: LHC Data Acquisition and Trigger Systems.
- Plenary Speaker, Workshop on Physics with CMS, Bombay, India: CMS Trigger

2001

- Plenary Speaker, Vienna Conference on Instrumentation, Vienna, Austria: LHC Trigger Systems.
- Invited Talk, HEPAP Subpanel on Long Range Planning, Arlington, VA: Particle Physics and Technology
- Invited Talk, Seventh Workshop on Electronics for the LHC, Stockholm, Sweden: CMS regional calorimeter Trigger Jet logic

2002

- Invited Talk, Eighth Workshop on Electronics for the LHC, Colmar, France: Tests of the CMS Level-1 Regional Calorimeter Trigger Prototypes

2003

- Seminar, Imperial College, London, England: Triggering on Discovery Physics at the LHC.
- Seminar, Universidad Autonoma de Madrid, Spain: Triggering on Discovery Physics at the LHC.
- Invited Talk, Ninth Workshop on Electronics for the LHC, Amsterdam, Netherlands: Full Crate Tests of the CMS Level-1 Regional Calorimeter Trigger

2004

- Invited Plenary Talk, New Results from ZEUS, 12th International Workshop on Deep Inelastic Scattering (DIS '04), Strbske Pleso, Slovakia.
- Invited Plenary Talk, Tenth Workshop on Electronics for the LHC, Boston, MA.: Trigger and Data Acquisition for the Super LHC.

2005

- Seminar, Fermilab, Batavia, IL: R&D for the SLHC.
- Seminar, Northwestern University, Evanston, IL: Deep Inelastic Scattering.
- Invited Plenary Talk, 2005 International Linear Collider Physics and Detector Workshop, Snowmass, CO.: Physics and Detectors at the LHC and the SLHC

2006

- Academic Lecture, Fermilab, Batavia, IL: CMS Trigger and Data Acquisition.
- Academic Lecture, CERN, Geneva, Switzerland: SLHC Trigger and Data Acquisition
- Invited Plenary Talk, Pheno 06, Madison, WI: New Physics Searches at HERA
- Seminar, Cornell University, Ithaca, NY: SLHC R&D for Trigger and Data Acquisition
- Invited Talk, IEEE Nuclear Science Symposium, San Diego, CA: The CMS Regional Calorimeter Electronics Integration.
- Seminar, DESY, Hamburg, Germany: The CMS Trigger

2007

- Invited Plenary Talk, Aspen Winter Conference on Particle Physics: QCD Results from Colliders
- Invited Plenary Talk, 15th IEEE NPSS Real Time Conference 2007, Fermilab, Batavia, IL: CMS SLHC Trigger and DAQ.
- Seminar, Los Alamos National Lab, Los Alamos, NM: CMS SLHC Trigger and DAQ.
- Seminar, Imperial College, London: CMS SLHC Trigger and DAQ.

2008

- Invited Plenary Talk, Aspen Winter Conference on Particle Physics: The SLHC Program and Detector Upgrades.
- Seminar, University of Chicago, QCD results from HERA.
- Invited Plenary Talk, LHC start-up and Early Data, 16th International Workshop on Deep Inelastic Scattering (DIS '08), London, England.
- Academic Lectures: Experimental techniques: Triggers, CERN-Fermilab Joint 2008 Hadron Collider Physics Summer School, Fermilab, Illinois.
- Colloquium; University of New York at Stony Brook: Startup of the Large Hadron Collider.
- Seminar: Triggering the CMS Detector, Los Alamos National Lab, New Mexico.

2009

- Academic Lecture: The CMS Trigger, US CMS J-Term School, Fermilab, Illinois.
- Seminar: Triggering at CMS, Fermilab, Illinois.
- Invited Plenary Talk: CMS Detector Global Status, Hadron Collider Physics Symposium, Evian, France.

2010

- Invited Plenary Talk: Trigger & DAQ R&D for high rate experiments, Workshop on Detector R&D, Fermilab, Illinois.
- Invited Plenary Talk: First Year of Collisions with CMS at the LHC, Meeting of the Prairie Section of the APS, Illinois Institute of Technology, Chicago, Illinois.

2011

- Invited Colloquium: Latest Results from CMS at the LHC, Washington University, St. Louis, MO.
- Invited Seminar: Triggering CMS, Texas A&M University, College Station, TX.
- Invited Plenary Talk: Trigger and Data Acquisition, Technology and Instrumentation in Particle Physics, TIPP 2011, Chicago, IL.

2012

- Invited Lecture: Data Selection & Collection: Trigger & DAQ, Excellence in Detector and Instrumentation Technologies symposium, EDIT2012, Fermilab, Batavia, IL.
- Invited Plenary Talk: Upgrade of the LHC Online Systems, Computing in High Energy Physics (CHEP12), New York, NY.
- Invited Lectures: Trigger & DAQ, 2012 CERN-Fermilab Hadron Collider Summer School, Fermilab, Batavia, IL.

2013

- Invited Talk: Triggers for hadron colliders at the energy frontier, Joint CPAD & Community Instrumentation Frontier Workshop at Boulder, CO.
- Invited Talk: Trigger and Data Acquisition Development, APS Division of Particles & Fields (DPF) Community Summer Study (CSS2013), Minneapolis, MN.
- Invited Plenary Talk: Trigger and Data Acquisition at the HL-LHC, European Committee of Future Accelerators (ECFA) 2013 High Luminosity LHC Experiments Workshop, Aix-les-Bain, France.

2014

- Invited Plenary Talk: ATLAS & CMS Trigger Common Issues, ACES 2014 - Fourth Common ATLAS CMS Electronics Workshop for LHC Upgrades, CERN, Geneva, Switzerland.
- Invited Plenary Talk: Trigger challenges and instrumentation developments for HL-LHC, Workshop on Next steps in the Energy Frontier - Hadron Colliders, Fermilab, Batavia, IL.
- Invited Plenary Talk: Level-1 Trigger Hardware at the HL-LHC, European Committee of Future Accelerators (ECFA) 2014 High Luminosity LHC Experiments Workshop, Aix-les-Bain, France.

2015

- Invited Talk: Trigger and Data Acquisition Challenges, Annual Meeting of the Future Circular Collider Study, Washington, DC.

2016

- Invited Lectures: Trigger & DAQ, 2016 CERN-Fermilab Hadron Collider Summer School, Fermilab, Batavia, IL.
- Invited Lecture: Trigger & DAQ, 2016 SLAC Summer Institute, Stanford, CA.
- Invited Talk: Overview of the CMS Trigger Upgrade, CPAD Instrumentation Frontier 2016 workshop, Pasadena, CA
- Invited Plenary Talk, Triggering at the HL-LHC: The Main Challenges for ATLAS and CMS, 8th Workshop on **IN**telligent, **F**ast, **I**nterconnected and **E**fficient devices for Frontier Exploitation in **R**esearch and **I**ndustry ([INFIERI](#)) Fermilab, Batavia, IL.

2017

- Invited Talk: Energy Frontier Needs, New Technologies for Discovery III: The 2017 CPAD Instrumentation Frontier Trigger and Data Acquisition Workshop, University of New Mexico, Albuquerque, NM.

2020

- Invited Plenary Talk, Panofsky Award Lecture: The Challenge of Triggering Collider Experiments, American Physical Society Virtual April Meeting, Washington, DC.

GRANTS WHERE PRINCIPAL INVESTIGATOR

Columbia University

1984-1988 National Science Presidential Young Investigator: 144K.
1984 Exxon Educational Foundation Presidential Young Investigator:
10K.
1986 Sun Microsystems, Inc.: 25K.
1986 Fermilab: 250K.
1987 Department of Energy Outstanding Junior Investigator: 50K.
1988 LeCroy Research Systems: 4K.
1988 Racal-Redac, Inc.: 10K

University of Wisconsin

1988 National Science Foundation Presidential Young Investigator: 76K
1988 LeCroy Research Systems: 4K.
1988 Racal-Redac, Inc.: 10K
1988 Department of Energy: 50K.
1988 Apollo Computer, Inc: 41K.
1988 U. Wisconsin Graduate School: 48K
1989 Department of Energy (with Don Reeder): 525K.
1989 U. Wisconsin Graduate School: 18K
1989 Mentor Graphics, Inc.: 250K
1990 Department of Energy (with Don Reeder): 495K.
1990 Department of Energy Supplement: 107K.
1990 Department of Energy SSC Funding: 50K.
1990 Racal-Redac, Inc.: 25K.
1991 Department of Energy (with Don Reeder): 569K.
1991 Department of Energy Supplement: 1,327K.
1991 Department of Energy SSC Funding: 26K.
1991 Texas National Research Lab: 146K.
1991 U. Wisconsin Graduate School: 13K.
1991 LBL SSC Funding: 75K.
1992 Department of Energy (with Don Reeder): 660K.
1992 Department of Energy Supplement: 1,050K.
1992 Department of Energy SSC Funding: 170K.
1992 Texas National Research Lab: 150K.
1992 U. Wisconsin Graduate School: 12K.
1993 Department of Energy (with Don Reeder): 830K.
1993 Department of Energy Supplement: 685K.
1993 Department of Energy SSC Funding: 263K.
1993 Department of Energy SSC Funding (w/Reeder): 75K
1993 Texas National Research Lab: 150K
1993 U. Wisconsin Graduate School: 8K.
1994 Department of Energy (with Don Reeder): 850K.
1994 Department of Energy Supplement: 707K.
1994 Department of Energy SSC Funding: 126K.
1994 Department of Energy SSC Funding (with Don Reeder): 40K
1994 U. Wisconsin Graduate School (with Don Reeder): 18K.
1994 Department of Energy Supplement: 101K.

1995	Department of Energy (with Don Reeder): 850K.
1995	Department of Energy (with Don Reeder): 100K.
1995	Department of Energy Suppl. (w/Reeder): 60K.
1995	U. Wisconsin Graduate School: 30K.
1996	Department of Energy (with Don Reeder): 855K.
1996	Department of Energy Suppl. (with Don Reeder): 25K.
1996	Department of Energy (with Don Reeder): 143K.
1996	Department of Energy (with Don Reeder): 339K.
1996	U. Wisconsin Graduate School: 8K.
1996	Vilas Associate: 25K.
1997	Department of Energy (with Don Reeder): 854K.
1997	Department of Energy (with Don Reeder): 130K.
1997	Department of Energy (with Don Reeder): 175K.
1997	Department of Energy (with Don Reeder): 510K.
1997	U. Wisconsin Graduate School: 12K.
1997	Vilas Associate: 25K.
1998	Department of Energy (with Don Reeder): 837K.
1998	Department of Energy (with Don Reeder): 200K.
1998	Department of Energy (with Don Reeder): 657K.
1998	Argonne National Lab: 38K.
1999	Department of Energy (with Don Reeder): 700K.
1999	Department of Energy (with Don Reeder): 420K.
1999	Department of Energy (with Don Reeder): 470K.
1999	Fermilab: 68K.
1999	Argonne National Lab: 30K.
1999-04	WARF Kellet Mid-Career Faculty Researcher Award: 60K.
2000	Department of Energy (with Don Reeder): 665K.
2000	Department of Energy (with Don Reeder): 459K.
2000	Department of Energy (with Don Reeder): 470K.
2000	Fermilab (with Don Reeder): 622K.
2000	Department of Energy (with Don Reeder): 35K.
2000	Argonne National Lab: 30K.
2001	Department of Energy (with Don Reeder): 700K.
2001	Department of Energy (with Don Reeder): 482.5K.
2001	Department of Energy (with Don Reeder): 504K.
2001	Department of Energy (with Don Reeder): 35K.
2001	Fermilab (with Don Reeder): 938.9K.
2001	U. Wisconsin Graduate School (with Don Reeder, Dasu): 32.5K.
2002	Department of Energy (with Don Reeder): 575K.
2002	Department of Energy (with Don Reeder): 520K.
2002	Department of Energy (with Don Reeder): 193K.
2002	Department of Energy (with Don Reeder): 35K.
2002	Fermilab (with Don Reeder): 1,128K
2002	Wiezmann/Isreal (with Don Reeder) 24K
2003	Department of Energy (with Don Reeder): 560K.
2003	Department of Energy (with Don Reeder): 635K.
2003	Department of Energy (with Don Reeder): 261K.
2003	Department of Energy (with Don Reeder): 35K.
2003	Fermilab (with Don Reeder): 621K

2003	U. Wisconsin Graduate School (with Don Reeder): 28K.
2003	Weizmann/Israel (with Don Reeder) 7K
2004	Northeastern University – NSF: 1,743K
2004	Department of Energy (with Don Reeder): 550K.
2004	Department of Energy (with Don Reeder): 757K.
2004	Department of Energy (with Don Reeder): 51K.
2004	Department of Energy (with Don Reeder): 35K.
2004	Department of Energy (with Don Reeder): 384K
2004	Fermilab/Department of Energy (with Don Reeder): 1,035K
2005	Department of Energy (with Don Reeder): 547K
2005	Department of Energy (with Don Reeder): 1,176K
2005	Department of Energy (with Don Reeder): 140K
2005	Fermilab/Department of Energy (with Don Reeder): 419K
2005	U. California Los Angeles - NSF: 707K
2005	National Science Foundation (NSF): 7K
2005	U. Wisconsin Graduate School: 22K
2006	Department of Energy: 356K
2006	Department of Energy: 1320K
2006	National Science Foundation: 68K
2006	National Science Foundation: 618K (with Dasu)
2006	U. Wisconsin Graduate School Named Chair: 75K
2006	Fermilab/Department of Energy: 82K
2006	Weizmann/Israel: 10K
2007	Department of Energy: 100K
2007	Department of Energy: 1275K (with Dasu, Carlsmith)
2007	Department of Energy: 359K
2007	National Science Foundation: 151K
2007	National Science Foundation: 750K (with Dasu)
2007	National Science Foundation: 153K (with Carlsmith)
2007	U. Wisconsin Graduate School: 30K
2008	Department of Energy: 1433K (with Dasu, Carlsmith)
2008	Fermilab/Department of Energy: 689K
2008	National Science Foundation: 470K
2008	National Science Foundation: 184K(w/ Dasu, Compton, Schulte)
2008	National Science Foundation: 759K (w/Dasu)
2008	U. Wisconsin Graduate School: 30K
2009	Department of Energy: 1517K (with Dasu, Carlsmith)
2009	Fermilab/Department of Energy: 687K
2009	National Science Foundation: 547K
2009	National Science Foundation: 682K (w/Dasu)
2009	National Science Foundation: 470K (w/Dasu)
2010	Department of Energy: 1428K (with Dasu, Carlsmith, Herndon)
2010	Department of Energy: 286K
2010	National Science Foundation: 470K (w/Dasu, Carlsmith)
2011	Department of Energy: 1375K (with Dasu, Carlsmith, Herndon)
2011	National Science Foundation: 868K (w/Carlsmith)
2011	U. Wisconsin Graduate School: 34K
2012	Department of Energy: 1390K (with Dasu, Carlsmith, Herndon)
2012	National Science Foundation: 710K

2012	DOE/NSF Joint CMS Funding: 2000K (with Dasu)
2013	Department of Energy: 1350K (with Dasu, Carlsmith, Herndon)
2013	DOE/NSF Joint CMS Funding: 2000K (with Dasu)
2013	U. Wisconsin Graduate School: 34K
2014	Department of Energy: 600K (with Dasu, Carlsmith, Herndon)
2014	Department of Energy: 1110K (with Dasu, Herndon)
2014	DOE/NSF Joint CMS Funding: 1101K (with Dasu)
2014	U. Wisconsin Graduate School: 34K
2015	Department of Energy: 1190K (with Dasu, Herndon)
2015	DOE/NSF Joint CMS Funding: 1993K (with Dasu)
2016	Department of Energy: 1190K (with Dasu, Herndon)
2016	DOE/NSF Joint CMS Funding: 3033K (with Dasu)
2017	Department of Energy: 1205K (with Dasu, Herndon)
2017	DOE/NSF Joint CMS Funding: 2500K (with Dasu)
2018	Department of Energy: 1205K (with Dasu, Herndon)
2018	DOE/NSF Joint CMS Funding: 1650K (with Dasu)

TEACHING:
Columbia University

Semester	Course	Description
Fall '82	Physics 1003	General Physics for Science Majors
Spring '83	Physics 1004	" "
Fall '83	Physics 1003	" "
Spring '84	Physics 1004	" "
Fall '84	Physics 1003	" "
Spring '85	Physics 1004	" "
Fall '85	Physics 1001	Physics for Liberal Arts Majors
Spring '86	Physics 1002	" "
Fall '86	Physics 1001	" "
Spring '87	Physics 1002	" "
Fall '87	On Leave	
Spring '88	Physics 1004	General Physics for Science Majors
	Freshman Seminar	

University of Wisconsin

Semester	Course	Description
Fall '88	Physics 623	Electronic Aids to Measurement
Spring '89	Physics 623	Electronic Aids to Measurement
Fall '89	Physics 623	Electronic Aids to Measurement
Spring '90	Physics 623	Electronic Aids to Measurement
Fall '90	Physics 201	General Physics
Spring '91	Physics 201	General Physics
Spring '91	Physics 301	Physics Today*
Spring '92	Physics 202	General Physics
Spring '92	Physics 301	Physics Today*
Fall '92	Physics 201	General Physics
Fall '92	Physics 301	Physics Today*
Spring '93	Physics 202	General Physics
Spring '93	Physics 301	Physics Today*
Fall '93	Physics 201	General Physics
Fall '93	Physics 301	Physics Today*
Spring '94	Physics 202	General Physics
Spring '94	Physics 301	Physics Today*
Fall '94	Physics 201	General Physics
Spring '95	Physics 202	General Physics
Spring '95	Physics 301	Physics Today*
Fall '95	Physics 201	General Physics
Spring '96	Physics 202	General Physics
Spring '96	Physics 301	Physics Today*
Fall '96	Physics 201	General Physics
Spring '97	Physics 202	General Physics
Spring '97	Physics 301	Physics Today*
Fall '97	Physics 201	General Physics
Spring '98	Physics 202	General Physics
Spring '98	Physics 301	Physics Today*
Fall '98	Physics 201	General Physics

Spring '99	Physics 301	Physics Today*
Fall '99	Physics 201	General Physics
Spring '00	Physics 202	General Physics
Spring '00	Physics 301	Physics Today*
Fall '00	Physics 201	General Physics
Spring '01	Physics 202	General Physics
Spring '01	Physics 301	Physics Today*
Fall '01	Physics 201	General Physics
Spring '02	Physics 202	General Physics
Spring '02	Physics 301	Physics Today*
Fall '02	Physics 201	General Physics
Spring '03	Physics 202	General Physics
Spring '03	Physics 301	Physics Today*
Fall '03	Physics 201	General Physics
Spring '04	Physics 202	General Physics
Spring '04	Physics 301	Physics Today*
Fall '04	Physics 201	General Physics
Spring '05	Physics 202	General Physics
Spring '05	Physics 301	Physics Today*
Fall '05	Physics 103	General Physics
Spring '06	Physics 103	General Physics
Spring '06	Physics 301	Physics Today*
Fall '06	Physics 103	General Physics
Spring '07	Physics 104	General Physics
Spring '07	Physics 301	Physics Today*
Fall '07	Physics 103	General Physics
Spring '08	Physics 104	General Physics
Spring '08	Physics 301	Physics Today*
Fall '08	Sabbatical	
Spring '09	Physics 301 / Sabbatical	Physics Today*
Fall '09	On Leave	
Spring '10	Physics 104	General Physics
Spring '10	Physics 301	Physics Today*
Fall '10	Physics 103	General Physics
Spring '11	Physics 104	General Physics
Spring '11	Physics 301	Physics Today*
Fall '11	Physics 103	General Physics
Spring '12	Physics 104	General Physics
Spring '12	Physics 301	Physics Today*
Fall '12	Physics 103	General Physics
Spring '13	Physics 104	General Physics
Spring '13	Physics 301	Physics Today*
Fall '13	Physics 103	General Physics
Spring '14	Physics 104	General Physics
Spring '14	Physics 301	Physics Today*
Fall '14	Physics 103	General Physics
Spring '15	Physics 104	General Physics
Spring '15	Physics 301	Physics Today*
Fall '15	Physics 103	General Physics

Spring '16	Physics 104	General Physics
Spring '16	Physics 301	Physics Today*
Fall '16	Physics 103	General Physics
Spring '17	Physics 104	General Physics
Spring '17	Physics 301	Physics Today*
Fall '17	Physics 103	General Physics
Spring '18	Physics 301	Physics Today*

*Course Developed by Prof. Smith

COMMITTEE SERVICE

Columbia: Undergraduate Curriculum Committee (5 years),
Colloquium Committee (2 years, 1 year as Chair)
Graduate Admissions Committee (1 year)
Qualifying Exam Committee (1 year)

Wisconsin: *Departmental:*
Long Range Planning (3 years, 1 year as Chair)
Research Capital Committee (1 year as Chair)
Promotions Committee (7 years, 2 years as chair)
Recognition Committee (19 years, 6 years as chair)
Library Committee (1 year)
Qualifying Exam Committee (1 year)
Graduate Admissions Committee (5 years)
New Staff Committee (16 years, 4 as Chair)
Salary Committee (7 years, one as Chair)
Ad Hoc Committee on the Future of the Department (1 year)
Departmental Review Committee (1 year)
Capital Exercise Committee (1 year)
Electronics Shop Committee (1 year)
Personnel Committee (1 year as Chair)
Introductory Course, Labs & Lecture Room (2 years as Chair)
Computing & IT Committee (9 years, 5 years as Chair)
Personnel Committee (non-faculty) (2 years as Chair)
Teaching Assistant Policy and Review (3 years, 2 years as Chair)

University:
Physical Sciences Lab Advisory Board (5 years).
Undergraduate Awards and Research Committee (1 year).
Responsive Curriculum Committee (1 year).
Chair, Campus Committee on Research Computing (5 years)

OUTREACH

July, 1992	Newspaper Column: Wisconsin State Journal.
March, 1993	Newspaper Column: Wisconsin State Journal.
March, 1993	Newspaper Column: New York Times.
August, 1993	Newspaper Column: Chicago Tribune.
August, 1993	Wisconsin Public Radio Call-in show.
November, 1993	Wisconsin Public Radio show.
December, 1993	Newspaper Column: Milwaukee Business Journal.
November, 1997	WORT Radio Interview.
April, 2005	Co-Produced “World Year of Physics/Einstein Year” Concert, Mills Hall, UW-Madison
October, 2005	Article, CERN Courier, “Deep Inelastic Scattering”
September, 2008	Television & Newspaper Interviews on LHC Startup
March, 2009	Public Lecture: “The LHC”, Full Speed Ahead After 50 Event, Monona Terrace, Madison.
May, 2009	Public Lecture: “Angels & Demons: LHC Science Revealed”, Physics Dept., U. Wisconsin. Repeated, July, 2009, UW Extension School.
February, 2012	NPR Radio Show, “Wyad’Ya Know”.
July, 2012	Radio Interview: WORT, July 5, 2012 Television Show: “Live at Five”, WISC-TV, July 6, 2012 Television Show: “Capital City Sunday”, WKOW-TV, July 8, 2012 Lecture, UW-Astronomy Research Experiences for Undergraduates program: “The Hunt for the Higgs Boson: The Large Hadron Collider Project at CERN”, July 18, 2012
October, 2012	Public Lecture: UW Space Place: “Finding the Higgs Boson”, October 9, 2012
October, 2013	Public Lecture: Physical Sciences Laboratory, Stoughton, WI: “Finding the Higgs Boson”, October 10, 2013
May, 2014	Invited Lecture: “Finding the Higgs Boson”, Industrial Refrigeration Consortium, Research and Technology Forum, Madison, WI, May 7, 2014
August, 2017	Invited Discussion: “ART+ Mass”, a dialogue on art as a lens and tool for exploring and documenting new discoveries in particle physics with artist Sonja Thomsen, Madison Museum of Contemporary Art.

THESIS STUDENTS

*Present thesis students who have not graduated listed by **

Students with Profs. Don Reeder (< 1998) or Sridhara Dasu as official advisor listed with†.

Name	Degree	Year	Current Post	Current Institution
Nick Smith	Ph.D.	2018	Research Asst.	Fermilab (CMS)
Tyler Ruggles†	Ph.D.	2018	Post. Doc.	Carnegie Energy Innovation
Laura Dodd	Ph.D.	2018	Physicist	Northrup-Grumman
Nate Woods	Ph.D.	2017	Developer	Cogint
Devin Taylor††	Ph.D.	2017	Research Asst.	U. C. Davis
Tom Perry	Ph.D.	2016	Research Asst.	Florida State U. (CMS)
Aaron Levine†	Ph.D.	2016	Research Asst.	Accenture
Austin Belknap	Ph.D.	2015	Software Engr.	Epic Systems
Isobel Ojalvo	Ph.D.	2014	Asst. Professor	Princeton (CMS)
Lindsey Gray††	Ph.D.	2012	Staff Scientist	Fermilab (CMS)
Ian Ross†	Ph.D.	2013	Software Engr.	Epic Systems
Joshua Swanson	Ph.D.	2013	Post. Doc.	Brown U. (CMS)
Michail Bachtis†	Ph.D.	2012	Asst. Professor	UCLA (CMS)
Christos Lazaridis	Ph.D.	2011	Software Engr.	CERN (CMS)
Kira Grogg	Ph.D.	2011	Post. Doc.	Massachusetts General Hospital
Marc Weinberg	Ph.D.	2011	Post. Doc.	Florida State U. (CMS)
Mike Anderson†	Ph.D.	2011	Software Engr.	Qualcomm
Jessica Leonard	Ph.D.	2011	Research Assoc.	DESY-Zeuthen (CMS)
Homer Wolfe	Ph.D.	2008	Data Scientist	CA Technologies
Erik Brownson	Ph.D.	2008	Post. Doc.	U. Puerto Rico. (CMS)
Tom Danielson	Ph.D.	2007	Post Doc	UC Santa Barbara (CMS)
Adam Everett	Ph.D.	2006	Physical Sci.	US Army
Pat Ryan	Ph.D.	2006	Post Doc	Michigan State (ATLAS)
Michele Rosin	Ph.D.	2006	Post Doc	U. Glasgow (ZEUS)
Liang Li	Ph.D.	2005	Assoc. Professor	Shanghai Jiao Tong University
Sabine Lammers	Ph.D.	2004	Asst. Professor	U. Indiana (D0 & ATLAS)
Jason Breitweg	Ph.D.	2001	Software Engr.	EssNet Deutschland GmbH
Douglas Chapin	Ph.D.	2001	Software Engr.	Bank of America
Richard Cross	Ph.D.	2001	Software Engr.	Bank of America
Sean Mattingly	Ph.D.	1999	Software Engr.	Bank of America
Michael Wodarczyk	Ph.D.	1999	Yield Engineer	Intel Corporation
Anthony Vaiciulis	Ph.D.	1999	Lead Scientist	FICO
Timothy Kinnel	Ph.D.	1998	Info. Mgr.	Pragmatic Vision Int'l
Haibo Zhang	Ph.D.	1998	Engineer	Caterpillar Corporation
Sam Silverstein†	Ph.D.	1996	Professor	Stockholm University (ATLAS)
Bruce Behrens†	Ph.D.	1995	Res. Analyst	Center for Naval Analyses
Issam Ali	Ph.D.	1995	Professor	University of Oman
Anna Goussiou	Ph.D.	1995	Professor	U. Washington (D0 & ATLAS)
Pamela Sandler	Ph.D.	1992		

U. WISCONSIN PHD THESIS COMMITTEES

(after 1992)

Name	Advisor	Year	Name	Advisor	Year
Xiangyang Ju	Wu	2018			
Tao Peng	Balantekin	2017	Laser Kaplan	Wu	2017
Fangzhou Zhang	Wu	2016	Fuquan Wang	Wu	2016
Yao Ming	Wu	2015	Hongtao Yang	Wu	2016
Kruse, Amanda	Pan/Mellado	2014	Zaipeng Xie	Morrow/ECE	2014
Klukas, Jeff	Herndon	2012	Wang, Haichen	Wu	2013
Chen, Xin	Wu	2008	Braun, Jim	Karle	2009
Quayle, Bill	Wu	2008	Fang, Yaquan	Wu	2008
Kutter, Paul	Wu	2006	Stradling, Alden	Wu	2008
Mihalyi, Attila	Wu	2005	Loureiro, Karina	Wu	2006
Ping, Huican	Erwin	2005	Datta, Mousumi	Wu	2005
Cheng, Baosen	Wu	2005	Yu, Zhitang	Wu	2005
Liu, Ran	Wu	2004	Wu, Jinwei	Wu	2004
McNamara, Peter	Wu	2002	Charles, Eric	Wu	2002
Ferguson, Douglas P.	Wu	2001	Nielsen, Jason	Wu	2001
Ha, Phuoc Dai	Durand	1999	Wu, Xidong	Wu	2000
Rainwater, David	Zeppenfeld	1999	Greening, Thomas	Wu	1999
Armstrong, Stephen	Wu	1998	Alavi-Harati, Ashkan	Erwin	1999
Olsen, James	Carlsmith	1998	Elmer, Peter	Wu	1998
Grahl, James	Wu	1998	Orejudos, William	Wu	1998
Gao, Yong-Sheng	Wu	1995	Nachtman, Jane	Wu	1997
Bellantoni, Leo	Wu	1995	Feng, Zhong	Wu	1995
Riesselmann, Kurt	Durand, L	1994	Walsh, Arthur M.	Wu	1994
Duff, Adam	Zeppenfeld	1993	Weber, Frederick	Reeder	1993

Ph.D. Thesis Titles of Thesis Students

Student	Year	Title
1. Nick Smith	2018	A Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance with the CMS Detector at the LHC
2. Tyler Ruggles [†]	2018	A Study of the Standard Model Higgs Boson Decaying to a Pair of Tau Leptons with the CMS Detector at the LHC
3. Laura Dodd	2018	Observation of Standard Model Higgs boson decays to leptons and a search for dark matter with the CMS detector at the LHC.
4. Nate Woods	2017	ZZ Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV in Four-Lepton Events using the CMS Detector at the LHC
5. Devin Taylor ^{††}	2017	A search for charged Higgs bosons in multilepton final states with the CMS detector at the CERN LHC
6. Aaron Levine ^{††}	2016	A Search for Lepton Flavor Violating Decays of the Higgs Boson and a Measurement of W Boson Production Using the CMS Detector at the LHC
7. Tom Perry	2016	A measurement of Wbb production and a search for monophoton signals of dark matter using the CMS detector at the CERN LHC
8. Austin Belknap	2015	Spin and Parity of the Higgs Boson Near $m_H = 126$ GeV/c ² in the $H \rightarrow ZZ \rightarrow 4l$ Channel and a Search for a Doubly Charged Higgs with the CMS Detector at the LHC
9. Isobel Ojalvo	2014	Measurement of $W + b\bar{b}$ and a search for MSSM Higgs Bosons with the CMS Detector at the LHC
10. Joshua Swanson	2013	Search for a Neutral Higgs Boson decaying to Tau Leptons using CMS at the LHC
11. Ian Ross [†]	2013	Search for the Higgs Boson and Beyond the Standard Model Physics in ZZ Decays using the CMS Detector at the LHC
12. Lindsey Gray [†]	2012	Measurement of Z Cross Section and Limits on Anomalous Triple Gauge Couplings at $\sqrt{s} = 7$ TeV using CMS
13. Michalis Bachtis [†]	2012	Heavy Neutral Particle Decays to Tau Pairs at $\sqrt{s} = 7$ TeV with CMS at the Large Hadron Collider
14. Marc Weinberg	2011	Search for Same-Sign Dilepton SUSY Signatures Using Top-like Decay Events with CMS at the LHC
15. Christos Lazaridis	2011	Jets produced in association with Z-bosons in CMS at the LHC
16. Jessica Leonard	2011	Z-boson cross section measurement using CMS at the LHC
17. Mike Anderson [†]	2011	Photon Production in association with Jets in CMS at the LHC
18. Kira Grogg	2011	Jets produced in association with W-bosons in CMS at the LHC
19. Homer Wolfe	2008	Multijet Production in Charged Current Deep Inelastic Scattering with ZEUS at HERA
20. Eric Brownson	2008	Prompt Photons in Photoproduction and Deep Inelastic Scattering at HERA

21. Tom Danielson	2007	A Measurement of Multijet Production in Low- x_{Bj} Neutral Current Deep Inelastic Scattering with ZEUS at HERA
22. Pat Ryan	2006	Photoproduction of Events with rapidity gaps between Jets with ZEUS at HERA
23. Adam Everett	2006	Measurements of Event shapes in Deep Inelastic Scattering with ZEUS at HERA
24. Michele Rosin	2006	Energy Dependence of the Mean Charged Multiplicity in Deep Inelastic Scattering with ZEUS at HERA
25. Liang Li	2005	Three-Jet Production in Neutral Current Deep Inelastic Scattering with ZEUS at HERA
26. Sabine Lammers	2004	A Study of Parton Dynamics at Low x with ZEUS at HERA
27. Jason Breitweg	2001	Neutral Current Deep Inelastic Scattering at Large Momentum transfer with ZEUS at HERA
28. Douglas Chapin	2001	A Measurement of Dijet Production in Neutral Current Deep Inelastic Scattering with HERA at ZEUS.
29. Richard Cross	2001	A Measurement of the Total Photon-Photon Cross Section at ZEUS
30. Sean Mattingly	1999	Virtual Photon Structure with ZEUS at HERA
31. Michael Wodarczyk	1999	Measurement of the F_2 Structure Function of the Proton at HERA from 1996 and 1997 ZEUS Data
32. Anthony Vaiciulis	1999	Observation of Isolated High- E_T Photons in Photoproduction at HERA
33. Timothy Kinnel	1998	Hadronic Energy Flow in Charged Current Neutrino Scattering
34. Haibo Zhang	1998	Measurement of the Positron-Proton Neutral Current Deep Inelastic Scattering Double Differential Cross Section at High Q^2
35. Sam Silverstein [†]	1996	A Search for Non-Resonant Effects of Leptoquarks in Electron-Proton Collisions
36. Bruce Behrens [†]	1995	Study of the Photon Remnant in Resolved Photoproduction at HERA
37. Issam Ali	1995	Measurement of Neutral and Charged Current Deep Inelastic Scattering Cross Sections at Very High Q^2
38. Anna Goussiou	1995	Measurement of the Proton Structure Function F_2 and Extraction of the Gluon Density of the Proton at Low x using the ZEUS Detector at HERA
39. Pamela Sandler	1992	Neutrino Production of Same Sign Dimuons at the Fermilab Tevatron

Postgraduate-Scholars

Name	Position	Years	Current Post	Current Institution
Isobel Ojalvo	Postdoc	2014-16	Postdoc	Princeton U.
Senka Duric	Postdoc	2013-pres.	Postdoc	U. Wisconsin
Maria Cepeda	Postdoc	2011-pres.	Postdoc	U. Wisconsin
Evan Friis	Postdoc	2011-2013	Postdoc	Google
Jonathan Efron	Postdoc	2007-2011	Postdoc	Cabot Microelectronics
Monika Grothe	Asst. Scientist	2003-2013	Analyst	Accenture
Armando Lanaro	Asst. Scientist	2003-pres.	Senior Scientist	U. Wisconsin
Yongwook Baek	Postdoc	2003-2007	Asst. Scientist	Kangnung National U.
Pamela Klabbers	Asst. Sci.	2000-17	Senior Scientist	U. Wisconsin
Alexandre Savin	Postdoc	2000-pres.	Senior Scientist	U. Wisconsin
Dorian Kcira	Postdoc	2000-05	Postdoc	U. Wisconsin
Costas Foudas	Postdoc	1989-2000	Professor	U. Ioannina
Sridhara Dasu	Postdoc	1992-2000	Professor	University of Wisconsin
Torsten Wildschek	Postdoc	1998-2000	Scientist	Lucent Technologies
William Badgett	Postdoc	1994-1999	Scientist	Fermilab
Carrie Fordham	Postdoc	1991-1993	Deceased	

External Examiner on Ph. D. Thesis Exam

Student	University	Date
Emlyn Corrin	Imperial College, London, UK	2003
Monica Vasquez	University of Madrid, Spain	2003
Nils Krumnack	Hamburg University, Germany	2004
Stefanos Dris	Imperial College, London, UK	2006
Ildefons Magrans	University of Barcelona, Spain	2008

Refereed Publications

> 100 of the following papers with more than 100 citations noted by *.

1. A Search for New Massive Particles, L.M. Lederman *et al.*, Phys. Lett. **77B**, 344 (1978).
2. Observation of J/ψ (3100) Production by 209 GeV Muons, A.R. Clark *et al.*, Phys. Rev. Lett. **43**, 187 (1979).
3. Cross Section Measurements for Charm Production by Muons and Photons, A.R. Clark *et al.*, Phys. Rev. Lett. **45**, 686 (1980).
4. Limit on T Muoproduction at 209 GeV, A.R. Clark *et al.*, Phys. Rev. Lett. **45**, 686 (1980).
5. Measurement of the Charm Structure Function and its Role in Scale Noninvariance, A.R. Clark *et al.*, Phys. Rev. Lett. **45**, 1465 (1980).
6. Polarization of Muoproduced J/ψ (3100), A.R. Clark *et al.*, Phys. Rev. Lett. **46**, 2092 (1980).
7. Lower Limit on Neutral Heavy Muon Mass, A.R. Clark *et al.*, Phys. Rev. Lett. **46**, 299 (1981).
8. Charm Production by Muons and Its Role in Scale Noninvariance, G.D. Gollin *et al.*, Phys. Rev. **D24**, 559 (1981).
9. Study of Rare Processes Induced by 209-GeV Muons, W.H. Smith *et al.*, Phys. Rev. **D25**, 2762 (1982).
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