

SAEED AHMAD, PhD

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EDUCATION

Ph.D. in Physics, University of Virginia

M.Phil. in Physics

M.S. in Physics

B.S. in Physics and Mathematics

EMPLOYMENT HISTORY

Professor of Physics, STEM Division, Eastfield College

August 2016 – present

- Taught/currently teaching the following courses:

University Physics, College Physics, Elementary Physics

Online Courses: Stars and Galaxies, Solar System, College Physics

Assistant Professor, Department of Chemistry, Physics, and Engineering, Cameron University

- Received “Faculty Award for Excellence and Innovation in Teaching” for 2015-2016.
- Delivered lecture courses at undergraduate level, including:

Introduction to Astronomy

Descriptive Physics

Thermal Physics

Light and Optics

Intro Quantum Mechanics

Classical Mechanics

Electricity & Magnetism

Intro to Physics Literature

Modern Physics

Electrical Measurements and Electronics

Physics Capstone

Physics for Science and Engineering majors

- Supervised nine students on the research projects including:

“Microbial Fuel Cells using Proton Exchange Membrane”

“Metallographic Examination and Chemical Analysis by Physical Methods”

“Storage of Solar Energy in a Proton Exchange Membrane Fuel Cells”

“Plasma propulsion engines for inter planetary space travel.”

- Served as a faculty advisor to the:

“Astronomy and Physics Club”

“Sigma Pi Sigma physics honor society”

“Society of Physics Students”

- Served on the:

“Faculty Senate”

“Curriculum Committee”

“Fringe Benefits and Retirement Committee”

“Faculty Committee”

- Organized:

“Astronomy Nights/Star Parties” for local community.

“PhysQuest” (a summer academy) for middle school kids.

“Physics Magic Shows” for local community.

HONORS AND AWARDS

- Faculty Award for Excellence and Innovation in Teaching, Cameron University, 2015-2016
- Summer Dissertation Acceleration Fellowship 2007, University of Virginia.
- HUGS Hampton University Graduate Fellow 2007
- University of Virginia Physics Department's Fellowship, Fall 2005.
- ICTP, Italy Particle Physics Summer School Fellow 2001
- First Position, President's Talent Farming Scholarship at M.S. Level, 1997-1999.
- President's Talent Farming Scholarship at B.S. Level, 1994-1996.

RESEARCH INTERESTS

Renewable Energy Sources, Microbial Fuel Cells, Computational Physics

REFEREED PUBLICATIONS

- Saeed Ahmad, Hannu Holopainen, and Pasi Huovinen
Phys. Rev. C 95, 054911, 2017
Dynamical freeze-out criterion in a hydrodynamical description of Au + Au collisions at $\sqrt{s_{NN}}=200$ GeV and Pb + Pb collisions at $\sqrt{s_{NN}}=2760$ GeV
- Saeed Ahmad, Gary R. Goldstein and Simonetta Liuti
Phys. Rev. D 79 : 034022 , 2009
Nucleon Tensor Charge from Exclusive Pion Electroproduction
- Saeed Ahmad, H. Honkanen, S. Liuti, S.K. Taneja
Eur. Phys. J. C. 63:407-421, 2009
Generalized Parton Distributions from Hadronic Observables: Non-Zero Skewness
- Saeed Ahmad, H. Honkanen, S. Liuti, S.K. Taneja
Phys. Rev. D75:094003, 2007 (hep-ph/0611046)
Generalized Parton Distributions from Hadronic Observables: Zero Skewness
- Saeed Ahmad, Jonathan Lenaghan, H. Thacker.
Phys. Rev. D72:114511, 2005 (hep-lat/0509066)
Coherent topological charge structure in CP^{N-1} models and QCD
- Saeed Ahmad and Riazuddin
Phys Rev D65:074018, 2002
Potential models for radiative rare B decays

SOCIETY MEMBERSHIPS

- Sigma Pi Sigma, Physics Honor Society
College Park, MD
- American Physical Society
One Physics Ellipse, College Park, MD 20740

CONFERENCE PROCEEDINGS

- Saeed Ahmad, S. Liuti, H. Honkanen, S.K. Taneja
AIP Conf. Proc.1149 : 623 - 626, 2009
Hybrid Parametrization for GPDs
- Simonetta Liuti, Saeed Ahmad, Chuanzhe Lin, Huong T. Nguyen
e-Print: arXiv:0908.2199 [hep-ph]
Strategies to Extract Generalized Parton Distributions from Data
- Gary R. Goldstein, Simonetta Liuti, Saeed Ahmad
e-Print: arXiv:0810.2128 [hep-ph], (Transversity 2008, Ferrara, Italy, May 2008)
Transversity via Exclusive π^0 Electroproduction
- Simonetta Liuti, Gary R. Goldstein, Saeed Ahmad
e-Print: arXiv:0807.1977 [hep-ph] (London 2008, Deep inelastic scattering pp 237)
Chiral-Odd Generalized Parton Distributions from Exclusive π^0 Electroproduction
- S. Ahmad, H. Honkanen, S. Liuti, S.K. Taneja,
e-Print: arXiv:0712.2412 [hep-ph]
(Workshop on Exclusive Reactions at High Momentum Transfer, Newport News, Virginia)
Generalized Parton Distributions and Hadronic Observables
- Simonetta Liuti, Saeed Ahmad, Gary R. Goldstein, Leonard Gamberg
e-Print: arXiv:0712.2417, (Hadron 07, Frascati, Italy, 8-13 Oct 2007)
 π^0 electroproduction and transversity
- S. Ahmad, H. Honkanen, S. Liuti, S.K. Taneja,
e-Print: arXiv:0709.0016 [hep-ph] (Munich 2007, Deep-inelastic scattering pp 771-774)
Generalized Parton Distributions from Hadronic Observables
- H. Thacker, Saeed Ahmad, Jonathan Lenaghan
Nucl. Phys. Proc. Suppl. 140:662-664,2005 (hep-lat/0409079)
Topological charge membranes in 2-D and 4-D gauge theory

EXPERIMENTAL PROPOSALS

K. Hafidi, E. Voutier, Saeed Ahmad, *et al.*
Jefferson Lab 6 GeV Experiment
Deeply Virtual Compton Scattering off Helium
JLab Proposal PR-08-024 (2008)

GUEST SPEAKER

- “Generalized Parton Distributions from hadronic Observables”
Exclusive Reactions at High Momentum, Jefferson Lab, VA, 2008
- “Studying the Phase Space Structure of Nucleons Using GPDs”
High Energy Physics Seminar, University of Virginia, 2007

RESEARCH SUPERVISION

- Supervision of nine undergraduate students at Cameron University
- Supervision of one undergraduate student at Bloomsburg University

CONFERENCES ATTENDED

- Joint Fall 2017 Meeting of the Texas Sections of the APS,AAPT,SPS, Richardson, TX
- 229th Meeting of American Astronomical Society, 2017, Dallas, TX
- Workshop on how to build an undergraduate physics program 2015, Seattle, WA
- Joint Spring 2014 Meeting of the Texas Sections of the APS,AAPT,SPS, Baytown, TX
- Oklahoma Research Day, University of Central Oklahoma, Edmond, Ok
- Joint Spring 2013 Meeting of the Texas Sections of the APS,AAPT,SPS, Abilene, TX
- Joint Spring 2012 Meeting of the Texas Sections of the APS,AAPT,SPS, Stephenville, TX
- The 18th International Symposium on Spin Physics, Univ. of Virginia, October 2008
- Hampton University Graduate School 2007 (Jefferson Lab)
- APS Southeastern Section Annual Meeting, Newport News, VA, November 2006
- National Nuclear Physics Summer School 2006 (Indiana University)
- Lattice 2005, Fermi lab, Batavia, IL
- ICTP Particle Physics Summer School 2001, Trieste, Italy