

Contact Information

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Education

Ph.D., Physics Massachusetts Institute of Technology. Awarded 2010-02-17. GPA 4.9/5.0
Thesis: *Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to High Momentum Transfer*. Accepted 2009-10-13. [Link](#)
Advisor: William Bertozzi, Professor of Physics.
B. S., Physics University of Virginia, 2004, *with Highest Distinction*. GPA 3.86/4.0

Professional Experience

08/2013-Present Assistant Professor, Physics Department. University of Connecticut, Storrs, CT.
01/2012-08/2013 Staff Scientist, Hall B Group. Thomas Jefferson National Accelerator Facility (Jefferson Lab). Newport News, VA
10/2009-12/2011 Director's Postdoctoral Fellow, P-25 Group. Los Alamos National Laboratory, Los Alamos, NM

Honors/Awards

2015 US Department of Energy Office of Science Early Career Award:

- Five-year research grant totaling \$750,000.
- One of 50 proposals selected for funding from about 620 applications.
- [Link](#) to abstract (page 33).

2009 Southeastern Universities Research Association (SURA)/Jefferson Science Associates (JSA) Thesis Prize (Best Ph.D. thesis completed on research carried out at Jefferson Lab during 2009).

2009-2011 Director's Postdoctoral Fellowship, Los Alamos National Laboratory (accepted).

2009 Director's Postdoctoral Fellowship, Argonne National Laboratory (offered).

2006-2008 SURA/JSA Graduate Fellowship. Fellowship support for half the stipend of my graduate research assistantship.

2006 First prize, SURA annual graduate student poster competition.

2004-2005 Presidential Graduate Fellowship, MIT. Full stipend support for selected first-year graduate students in physics.

2004 James W. Elkins Award, University of Virginia (most outstanding graduating physics major).

2004 Phi Beta Kappa, University of Virginia.

2000-2004 Echols Scholar, University of Virginia

Memberships in Professional Organizations

2013-Present American Association of University Professors (AAUP)

2005-Present American Physical Society (APS)

- Division of Nuclear Physics (DNP)
- Topical Group on Hadronic Physics (GHP)

Research Experience/Achievements (since Ph.D.)

08/2013-Present University of Connecticut

- Nuclear and particle physics research in experimental Halls A and B at Jefferson Lab.
- Spokesperson of approved experiment [E12-09-018](#) studying neutron transverse spin structure in Hall A
- Member of Super BigBite Spectrometer (SBS) collaboration in Hall A.
- Representative of experiment E12-09-018 on the SBS Collaboration Coordinating Committee.
- Ring Imaging Cherenkov (RICH) detector preparation for Hall A experiments.
- Detector and physics Monte Carlo simulations for Jefferson Lab experiments.
- Data analysis and publication of physics results from Jefferson Lab experiments.
- Threshold and imaging Cherenkov detector development for the CLAS collaboration
- Advising of two Ph.D. thesis students in UConn physics department
- Development of new experiment proposals.
- Development of external research funding. Successfully applied for DOE's Early Career Research Program (see above).
- Mentoring of Postdoctoral Research Associate Eric Fuchey (since August 2016).

01/2012-08/2013 Jefferson Lab, Hall B Group

- Research, development, design, construction and testing of the High Threshold Cherenkov Counter (HTCC) for the CLAS12 spectrometer in Hall B. The HTCC detects Cherenkov radiation emitted by charged particles moving faster than the speed of light in the CO₂ gas volume of the detector. This detector is used to identify scattered electrons with momenta up to 5 GeV/c.
- Membership and active participation in the physics program of the CLAS collaboration.
- Data analysis and publication of results from Jefferson Lab experiments.
- Quality control, including ultrasonic void detection and laser profile measurements, of soldering process performed on superconducting Rutherford cable by external contractor for the CLAS12 Torus and solenoid magnets.

10/2009-12/2011 Los Alamos National Laboratory, P-25 Group (Director's Postdoctoral Fellowship).

- Analysis, simulation and preparation of publications from completed Jefferson Lab experiment [E06-010](#): the neutron transversity experiment. This experiment, which collected data in 2008-2009, measured the target single spin asymmetries and the

beam-target double-spin asymmetries in charged pion electro-production in semi-inclusive deep-inelastic electron scattering (SIDIS) on a transversely polarized Helium-3 target, shedding light on the transverse spin and orbital angular momentum distributions of quarks in the neutron.

- Development of experiment proposals for the JLab 12 GeV Upgrade, including [E12-09-018](#), of which I am a spokesperson, which was approved for 64 beam-days with an “A-” scientific rating by the Jefferson Lab Program Advisory Committee (PAC) at its 38th meeting in August 2011.
- Data analysis and final publication of several experiments related to the proton form factors, including [E04-108](#) (the subject of my Ph.D. thesis), [E04-019](#), and [E99-007](#)

Refereed Journal Articles

1. **“Photoproduction of Λ and Σ^0 hyperons using linearly polarized photons”**
C. A. Paterson *et al.* [CLAS Collaboration].
arXiv:1603.06492 [nucl-ex]
DOI:10.1103/PhysRevC.93.065201
Phys. Rev. C **93**, no. 6, 065201 (2016) [HEP entry](#)
2. **“First measurement of the helicity asymmetry E in η photoproduction on the proton”**
I. Senderovich *et al.* [CLAS Collaboration].
arXiv:1507.00325 [nucl-ex]
DOI:10.1016/j.physletb.2016.01.044
Phys. Lett. B **755**, 64 (2016)
JLAB-PHY-15-2096 [HEP entry](#)
3. **“Polarization Transfer in Wide-Angle Compton Scattering and Single-Pion Photoproduction from the Proton”**
C. Fanelli *et al.*
arXiv:1506.04045 [nucl-ex]
DOI:10.1103/PhysRevLett.115.152001
Phys. Rev. Lett. **115**, no. 15, 152001 (2015)
JLAB-PHY-15-2059 [HEP entry](#)
4. **“Cross sections for the exclusive photon electroproduction on the proton and Generalized Parton Distributions”**
H. S. Jo *et al.* [CLAS Collaboration].
arXiv:1504.02009 [hep-ex]
DOI:10.1103/PhysRevLett.115.212003
Phys. Rev. Lett. **115**, no. 21, 212003 (2015)
JLAB-PHY-15-2037 [HEP entry](#)
5. **“Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region $E_\gamma = 1.1\text{-}2.3$ GeV”**
N. Zachariou *et al.* [CLAS Collaboration].
arXiv:1503.05435 [nucl-ex]
DOI:10.1103/PhysRevC.91.055202
Phys. Rev. C **91**, no. 5, 055202 (2015)
JLAB-PHY-15-2024 [HEP entry](#)
6. **“First Measurement of the Polarization Observable E in the $\vec{p}(\vec{\gamma}, \pi^+)n$ Reaction up to 2.25 GeV”**
S. Strauch *et al.* [CLAS Collaboration].

- arXiv:1503.05163 [nucl-ex]
 DOI:10.1016/j.physletb.2015.08.053
 Phys. Lett. B **750**, 53 (2015)
 JLAB-PHY-15-2025 [HEP entry](#)
7. **“Measurement of the Target-Normal Single-Spin Asymmetry in Quasielastic Scattering from the Reaction ${}^3\text{He}^\uparrow(e, e')$ ”**
 Y. W. Zhang *et al.*.
 arXiv:1502.02636 [nucl-ex]
 DOI:10.1103/PhysRevLett.115.172502
 Phys. Rev. Lett. **115**, no. 17, 172502 (2015)
 JLAB-PHY-15-2021 [HEP entry](#)
 8. **“Double Spin Asymmetries of Inclusive Hadron Electroproductions from a Transversely Polarized ${}^3\text{He}$ Target”**
 Y. X. Zhao *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1502.01394 [nucl-ex]
 DOI:10.1103/PhysRevC.92.015207
 Phys. Rev. C **92**, no. 1, 015207 (2015)
 JLAB-PHY-15-2027 [HEP entry](#)
 9. **“Single and double spin asymmetries for deeply virtual Compton scattering measured with CLAS and a longitudinally polarized proton target”**
 S. Pisano *et al.* [CLAS Collaboration].
 arXiv:1501.07052 [hep-ex]
 DOI:10.1103/PhysRevD.91.052014
 Phys. Rev. D **91**, no. 5, 052014 (2015)
 JLAB-PHY-15-2005 [HEP entry](#)
 10. **“Strangeness Suppression of $q\bar{q}$ Creation Observed in Exclusive Reactions”**
 M. Mestayer *et al.* [CLAS Collaboration].
 arXiv:1412.0974 [nucl-ex]
 DOI:10.1103/PhysRevLett.113.152004
 Phys. Rev. Lett. **113**, no. 15, 152004 (2014)
 JLAB-PHY-14-1944 [HEP entry](#)
 11. **“Measurements of $ep \rightarrow e'\pi^+n$ at $W = 1.6 - 2.0$ GeV and extraction of nucleon resonance electrocouplings at CLAS”**
 K. Park *et al.* [CLAS Collaboration].
 arXiv:1412.0274 [nucl-ex]
 DOI:10.1103/PhysRevC.91.045203
 Phys. Rev. C **91**, 045203 (2015)
 JLAB-PHY-15-4 [HEP entry](#)
 12. **“Momentum sharing in imbalanced Fermi systems”**
 O. Hen *et al.*.
 arXiv:1412.0138 [nucl-ex]
 DOI:10.1126/science.1256785
 Science **346**, 614 (2014) [HEP entry](#)
 13. **“Towards a resolution of the proton form factor problem: new electron and positron scattering data”**
 D. Adikaram *et al.* [CLAS Collaboration].
 arXiv:1411.6908 [nucl-ex]
 DOI:10.1103/PhysRevLett.114.062003

- Phys. Rev. Lett. **114**, 062003 (2015)
 JLAB-PHY-14-1960 [HEP entry](#)
14. **“Longitudinal target-spin asymmetries for deeply virtual Compton scattering”**
 E. Seder *et al.* [CLAS Collaboration].
 arXiv:1410.6615 [hep-ex]
 DOI:10.1103/PhysRevLett.114.089901, 10.1103/PhysRevLett.114.032001
 Phys. Rev. Lett. **114**, no. 3, 032001 (2015), Addendum: [Phys. Rev. Lett. **114**, no. 8, 089901 (2015)]
 JLAB-PHY-14-1978 [HEP entry](#)
15. **“Measurement of double-polarization asymmetries in the quasielastic ${}^3\text{He}(\vec{e}, e'd)$ process”**
 M. Mihovilovic *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1409.2253 [nucl-ex]
 DOI:10.1103/PhysRevLett.113.232505
 Phys. Rev. Lett. **113**, no. 23, 232505 (2014)
 JLAB-PHY-14-1970 [HEP entry](#)
16. **“First Observation of the $\Lambda(1405)$ Line Shape in Electroproduction”**
 H. Y. Lu *et al.* [CLAS Collaboration].
 arXiv:1307.4411
 DOI:10.1103/PhysRevC.88.045202
 Phys. Rev. C **88**, 045202 (2013)
 JLAB-PHY-13-1758 [HEP entry](#)
17. **“Exclusive π^0 electroproduction at $W > 2$ GeV with CLAS”**
 I. Bedlinskiy *et al.* [CLAS Collaboration].
 arXiv:1405.0988 [nucl-ex]
 DOI:10.1103/PhysRevC.90.039901, 10.1103/PhysRevC.90.025205
 Phys. Rev. C **90**, no. 2, 025205 (2014), Addendum: [Phys. Rev. C **90**, no. 3, 039901 (2014)]
 JLAB-PHY-14-1871 [HEP entry](#)
18. **“Single spin asymmetries in charged kaon production from semi-inclusive deep inelastic scattering on a transversely polarized ${}^3\text{He}$ target”**
 Y. X. Zhao *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1404.7204 [nucl-ex]
 DOI:10.1103/PhysRevC.90.055201
 Phys. Rev. C **90**, no. 5, 055201 (2014)
 JLAB-PHY-14-1894 [HEP entry](#)
19. **“Precision measurements of g_1 of the proton and the deuteron with 6 GeV electrons”**
 Y. Prok *et al.* [CLAS Collaboration].
 arXiv:1404.6231 [nucl-ex]
 DOI:10.1103/PhysRevC.90.025212
 Phys. Rev. C **90**, no. 2, 025212 (2014)
 JLAB-PHY-14-1879 [HEP entry](#)
20. **“Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\gamma p \rightarrow \phi p$ ”**
 B. Dey *et al.* [CLAS Collaboration].
 arXiv:1403.2110 [nucl-ex]

DOI:10.1103/PhysRevC.90.019901, 10.1103/PhysRevC.89.055208
Phys. Rev. C **89**, no. 5, 055208 (2014), Addendum: [Phys. Rev. C **90**, no. 1, 019901 (2014)] [HEP entry](#)

21. **“Beam-spin asymmetries from semi-inclusive pion electroproduction”**
W. Gohn *et al.* [CLAS Collaboration].
arXiv:1402.4097 [hep-ex]
DOI:10.1103/PhysRevD.89.072011
Phys. Rev. D **89**, no. 7, 072011 (2014)
JLAB-PHY-14-1846 [HEP entry](#)
22. **“Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic $^2\text{H}(e, e'p)X$ scattering with CLAS”**
S. Tkachenko *et al.* [CLAS Collaboration].
arXiv:1402.2477 [nucl-ex]
DOI:10.1103/PhysRevC.90.059901, 10.1103/PhysRevC.89.045206
Phys. Rev. C **89**, 045206 (2014), Addendum: [Phys. Rev. C **90**, 059901 (2014)]
JLAB-PHY-14-1844 [HEP entry](#)
23. **“Spin and parity measurement of the $\Lambda(1405)$ baryon”**
K. Moriya *et al.* [CLAS Collaboration].
arXiv:1402.2296 [hep-ex]
DOI:10.1103/PhysRevLett.112.082004
Phys. Rev. Lett. **112**, no. 8, 082004 (2014)
JLAB-PHY-14-1848 [HEP entry](#)
24. **“Measurement of pretzelosity asymmetry of charged pion production in Semi-Inclusive Deep Inelastic Scattering on a polarized ^3He target”**
Y. Zhang *et al.* [Jefferson Lab Hall A Collaboration].
arXiv:1312.3047 [nucl-ex]
DOI:10.1103/PhysRevC.90.055209
Phys. Rev. C **90**, no. 5, 055209 (2014)
JLAB-PHY-13-1832 [HEP entry](#)
25. **“Single spin asymmetries of inclusive hadrons produced in electron scattering from a transversely polarized ^3He target”**
K. Allada *et al.* [Jefferson Lab Hall A Collaboration].
arXiv:1311.1866 [nucl-ex]
DOI:10.1103/PhysRevC.89.042201
Phys. Rev. C **89**, no. 4, 042201 (2014)
JLAB-PHY-13-1826 [HEP entry](#)
26. **“Measurement of the Target-Normal Single-Spin Asymmetry in Deep-Inelastic Scattering from the Reaction $^3\text{He}^\uparrow(e, e')X$ ”**
J. Katich *et al.*
arXiv:1311.0197 [nucl-ex]
DOI:10.1103/PhysRevLett.113.022502
Phys. Rev. Lett. **113**, no. 2, 022502 (2014)
JLAB-PHY-13-1802 [HEP entry](#)
27. **“JLab Measurement of the ^4He Charge Form Factor at Large Momentum Transfers”**
A. Camsonne *et al.* [Jefferson Lab Hall A Collaboration].
arXiv:1309.5297 [nucl-ex]
DOI:10.1103/PhysRevLett.112.132503

- Phys. Rev. Lett. **112**, no. 13, 132503 (2014)
 JLAB-PHY-13-1798 [HEP entry](#)
28. **“ ϕ -meson photoproduction on Hydrogen in the neutral decay mode”**
 H. Seraydaryan *et al.* [CLAS Collaboration].
 arXiv:1308.1363 [hep-ex]
 DOI:10.1103/PhysRevC.89.055206
 Phys. Rev. C **89**, no. 5, 055206 (2014)
 JLAB-PHY-13-1769 [HEP entry](#)
29. **“Demonstration of a novel technique to measure two-photon exchange effects in elastic $e^\pm p$ scattering”**
 M. Moteabbed *et al.* [CLAS Collaboration].
 arXiv:1306.2286 [nucl-ex]
 DOI:10.1103/PhysRevC.88.025210
 Phys. Rev. C **88**, 025210 (2013)
 JLAB-PHY-13-1745 [HEP entry](#)
30. **“Differential Photoproduction Cross Sections of the $\Sigma^0(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$ ”**
 K. Moriya *et al.* [CLAS Collaboration].
 arXiv:1305.6776 [nucl-ex]
 DOI:10.1103/PhysRevC.88.049902, 10.1103/PhysRevC.88.045201
 Phys. Rev. C **88**, 045201 (2013), Addendum: [Phys. Rev. C **88**, no. 4, 049902 (2013)]
 JLAB-PHY-13-1744 [HEP entry](#)
31. **“Hard Two-body Photodisintegration of ^3He ”**
 I. Pomerantz *et al.* [CLAS and Hall-A Collaborations].
 arXiv:1303.5049 [nucl-ex]
 DOI:10.1103/PhysRevLett.110.242301
 Phys. Rev. Lett. **110**, no. 24, 242301 (2013)
 JLAB-PHY-13-1728 [HEP entry](#)
32. **“Cross sections for the $\gamma p \rightarrow K^{*+}\Lambda$ and $\gamma p \rightarrow K^{*+}\Sigma^0$ reactions measured at CLAS”**
 W. Tang *et al.* [CLAS Collaboration].
 arXiv:1303.2615 [nucl-ex]
 DOI:10.1103/PhysRevC.87.065204
 Phys. Rev. C **87**, no. 6, 065204 (2013)
 JLAB-PHY-13-1705 [HEP entry](#)
33. **“Transverse polarization of $\Sigma^+(1189)$ in photoproduction on a hydrogen target in CLAS”**
 C. S. Nepali *et al.* [CLAS Collaboration].
 arXiv:1302.0322 [nucl-ex]
 DOI:10.1103/PhysRevC.87.045206
 Phys. Rev. C **87**, no. 4, 045206 (2013)
 JLAB-PHY-13-1692 [HEP entry](#)
34. **“Separated Structure Functions for Exclusive $K^+\Lambda$ and $K^+\Sigma^0$ Electroproduction at 5.5 GeV with CLAS”**
 D. S. Carman *et al.* [CLAS Collaboration].
 arXiv:1212.1336
 DOI:10.1103/PhysRevC.87.025204
 Phys. Rev. C **87**, no. 2, 025204 (2013)

JLAB-PHY-13-4 [HEP entry](#)

35. **“Measurement of transparency ratios for protons from short-range correlated pairs”**
O. Hen *et al.* [CLAS Collaboration].
arXiv:1212.5343 [nucl-ex]
DOI:10.1016/j.physletb.2013.04.011
Phys. Lett. B **722**, 63 (2013)
JLAB-PHY-12-1638 [HEP entry](#)
36. **“Near Threshold Neutral Pion Electroproduction at High Momentum Transfers and Generalized Form Factors”**
P. Khetarpal *et al.* [CLAS Collaboration].
arXiv:1211.6460 [nucl-ex]
DOI:10.1103/PhysRevC.87.045205
Phys. Rev. C **87**, no. 4, 045205 (2013)
JLAB-PHY-12-1636 [HEP entry](#)
37. **“New Measurements of the Transverse Beam Asymmetry for Elastic Electron Scattering from Selected Nuclei”**
S. Abrahamyan *et al.* [HAPPEX and PREX Collaborations].
arXiv:1208.6164 [nucl-ex]
DOI:10.1103/PhysRevLett.109.192501
Phys. Rev. Lett. **109**, 192501 (2012)
JLAB-PHY-12-1622 [HEP entry](#)
38. **“Measurement of Exclusive π^0 Electroproduction Structure Functions and their Relationship to Transversity GPDs”**
I. Bedlinskiy *et al.* [CLAS Collaboration].
arXiv:1206.6355 [hep-ex]
DOI:10.1103/PhysRevLett.109.112001
Phys. Rev. Lett. **109**, 112001 (2012)
JLAB-PHY-12-1595 [HEP entry](#)
39. **“Deep exclusive π^+ electroproduction off the proton at CLAS”**
K. Park *et al.* [CLAS Collaboration].
arXiv:1206.2326 [nucl-ex]
DOI:10.1140/epja/i2013-13016-9
Eur. Phys. J. A **49**, 16 (2013)
JLAB-PHY-12-1608 [HEP entry](#)
40. **“Measurement of the Neutron Radius of ^{208}Pb Through Parity-Violation in Electron Scattering”**
S. Abrahamyan *et al.*.
arXiv:1201.2568 [nucl-ex]
DOI:10.1103/PhysRevLett.108.112502
Phys. Rev. Lett. **108**, 112502 (2012)
JLAB-PHY-12-1480 [HEP entry](#)
41. **“Polarization components in π^0 photoproduction at photon energies up to 5.6 GeV”**
W. Luo *et al.* [Gep-III and Gep2gamma Collaborations].
arXiv:1109.4650 [nucl-ex]
DOI:10.1103/PhysRevLett.108.222004
Phys. Rev. Lett. **108**, 222004 (2012)

- JLAB-PHY-12-1618 [HEP entry](#)
42. **“Beam-Target Double Spin Asymmetry A_{LT} in Charged Pion Production from Deep Inelastic Scattering on a Transversely Polarized ^3He Target at $1.4 < Q^2 < 2.7 \text{ GeV}^2$ ”**
 J. Huang *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1108.0489 [nucl-ex]
 DOI:10.1103/PhysRevLett.108.052001
 Phys. Rev. Lett. **108**, 052001 (2012)
 JLAB-PHY-11-1359 [HEP entry](#)
43. **“Single Spin Asymmetries in Charged Pion Production from Semi-Inclusive Deep Inelastic Scattering on a Transversely Polarized ^3He Target”**
 X. Qian *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1106.0363 [nucl-ex]
 DOI:10.1103/PhysRevLett.107.072003
 Phys. Rev. Lett. **107**, 072003 (2011)
 JLAB-PHY-11-1332 [HEP entry](#)
44. **“Low Q^2 measurements of the proton form factor ratio $\mu_p G_E/G_M$ ”**
 G. Ron *et al.* [Jefferson Lab Hall A Collaboration].
 arXiv:1103.5784 [nucl-ex]
 DOI:10.1103/PhysRevC.84.055204
 Phys. Rev. C **84**, 055204 (2011)
 JLAB-PHY-11-1415 [HEP entry](#)
45. **“Final Analysis of Proton Form Factor Ratio Data at $Q^2 = 4.0, 4.8$ and 5.6 GeV^2 ”**
 A. J. R. Puckett *et al.*.
 arXiv:1102.5737 [nucl-ex]
 DOI:10.1103/PhysRevC.85.045203
 Phys. Rev. C **85**, 045203 (2012)
 JLAB-PHY-11-1318 [HEP entry](#)
46. **“Search for effects beyond the Born approximation in polarization transfer observables in $\bar{e}p$ elastic scattering”**
 M. Meziane *et al.* [Gep2gamma Collaboration].
 arXiv:1012.0339 [nucl-ex]
 DOI:10.1103/PhysRevLett.106.132501
 Phys. Rev. Lett. **106**, 132501 (2011)
 JLAB-PHY-10-1280 [HEP entry](#)
47. **“A precise extraction of the induced polarization in the $^4\text{He}(e,e'p)^3\text{H}$ reaction”**
 S. P. Malace *et al.*.
 arXiv:1011.4483 [nucl-ex]
 DOI:10.1103/PhysRevLett.106.052501
 Phys. Rev. Lett. **106**, 052501 (2011)
 JLAB-PHY-10-1234 [HEP entry](#)
48. **“Measurements of the Electric Form Factor of the Neutron up to $Q^2 = 3.4 \text{ GeV}^2$ using the Reaction $^3\bar{H}e(\bar{e}, e'n)pp$ ”**
 S. Riordan *et al.*.
 arXiv:1008.1738 [nucl-ex]
 DOI:10.1103/PhysRevLett.105.262302

- Phys. Rev. Lett. **105**, 262302 (2010)
 JLAB-PHY-10-1201 [HEP entry](#)
49. **“Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to $Q^2 = 8.5 \text{ GeV}^2$ ”**
 A. J. R. Puckett *et al.*
 arXiv:1005.3419 [nucl-ex]
 DOI:10.1103/PhysRevLett.104.242301
 Phys. Rev. Lett. **104**, 242301 (2010)
 JLAB-PHY-10-1155 [HEP entry](#)
50. **“Polarization Observables in Deuteron Photodisintegration below 360 MeV”**
 J. Glister *et al.*
 arXiv:1003.1944 [nucl-ex]
 DOI:10.1016/j.physletb.2011.01.061
 Phys. Lett. B **697**, 194 (2011)
 JLAB-PHY-10-1133 [HEP entry](#)
51. **“Polarization Transfer in the $^4\text{He}(e,e'p)^3\text{H}$ Reaction at $Q^2 = 0.8$ and 1.3 (GeV/c)^2 ”**
 M. Paolone *et al.*
 arXiv:1002.2188 [nucl-ex]
 DOI:10.1103/PhysRevLett.105.072001
 Phys. Rev. Lett. **105**, 072001 (2010)
 JLAB-PHY-10-1127 [HEP entry](#)
52. **“The Proton Elastic Form Factor Ratio $\mu_p G_E^p/G_M^p$ at Low Momentum Transfer”**
 G. Ron *et al.*
 arXiv:0706.0128 [nucl-ex]
 DOI:10.1103/PhysRevLett.99.202002
 Phys. Rev. Lett. **99**, 202002 (2007)
 JLAB-PHY-07-650 [HEP entry](#)
53. **“Precision Measurements of the Nucleon Strange Form Factors at $Q^2 \sim 0.1 \text{ GeV}^2$ ”**
 A. Acha *et al.* [HAPPEX Collaboration].
 nucl-ex/0609002
 DOI:10.1103/PhysRevLett.98.032301
 Phys. Rev. Lett. **98**, 032301 (2007)
 JLAB-PHY-06-534 [HEP entry](#)

Works in preparation/submitted for publication

1. **“Measurement of Target and Double-spin Asymmetries for the $\vec{e}p \rightarrow e\pi^+(n)$ Reaction in the Nucleon Resonance Region at Low Q^2 ”**
 X. Zheng *et al.* [CLAS Collaboration].
 arXiv:1607.03924 [nucl-ex] (submitted to Phys. Rev. C) [HEP entry](#)
2. **“Target and Beam-Target Spin Asymmetries in Exclusive π^+ and π^- Electroproduction with 1.6 to 5.7 GeV Electrons”**
 P. E. Bosted *et al.* [CLAS Collaboration].
 arXiv:1604.04350 [nucl-ex] (submitted to Phys. Rev. C) [HEP entry](#)
3. **“Measurement of two-photon exchange effect by comparing elastic $e^\pm p$ cross sections”**

D. Rimal *et al.* [CLAS Collaboration].
arXiv:1603.00315 [nucl-ex] (submitted to Phys. Rev. C) [HEP entry](#)

Conference Proceedings

1. **“The JLab TMD Program at 6 GeV and 11 GeV”**
A. Puckett.
PoS QCDEV **2015**, 029 (2015).
JLAB-PHY-16-2229 [HEP entry](#)
2. **“The 6 GeV TMD Program at Jefferson Lab”**
A. Puckett.
DOI:10.1051/epjconf/20158502021
EPJ Web Conf. **85**, 02021 (2015).
JLAB-PHY-14-1989 [HEP entry](#)
3. **“High precision measurements of the neutron spin structure in Hall A at Jlab”**
J. R. M. Annand *et al.*.
PoS QNP **2012**, 047 (2012).
JLAB-PHY-12-1507 [HEP entry](#)
4. **“Final Results of the GEp-III Experiment and the Status of the Proton Form Factors”**
A. J. R. Puckett [GEp-III Collaboration].
arXiv:1008.0855 [nucl-ex]
DOI:10.1142/9789814329569_0023
JLAB-PHY-10-1274 [HEP entry](#)
5. **“Recoil polarization measurements of the proton electromagnetic form factor ratio at high momentum transfer”**
A. J. R. Puckett.
DOI:10.1063/1.3293960
AIP Conf. Proc. **1182**, 925 (2009).
JLAB-PHY-09-927 [HEP entry](#)

Major Unpublished Works

1. **“ $g4sbs$: Monte Carlo simulation package for the SBS experiments”**
Puckett, A. J. R., Riordan, S., Cornejo, J.-C., *et al.*
Type: Source code and documentation (not peer-reviewed). Ongoing development, maintenance, documentation and user support is led by my group.
Description: $g4sbs$ is the [GEANT4](#)-based Monte Carlo simulation program for the [Super BigBite Spectrometer](#) experiments.
 $g4sbs$ on [github](#).
 $g4sbs$ [documentation](#) maintained by my group.
2. **“Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to High Momentum Transfer”**
A. J. R. Puckett.
Ph.D. Thesis, MIT (2009)
arXiv:1508.01456 [nucl-ex]
JLAB-PHY-09-1127 [HEP entry](#)
3. **“Deuteron Electro-Disintegration at Very High Missing Momenta”**
W. U. Boeglin *et al.*

arXiv:1410.6770 [nucl-ex] (Jefferson Lab experiment proposal)
 JEFFERSON-LAB-EXPERIMENT-E12-10-003, JLAB-PHY-14-1979 [HEP entry](#)

4. **“Measurements of Semi-Inclusive DIS Double-Spin Asymmetries on a Longitudinally Polarized ^3He Target”**
 Jiang, X., Liyanage, N., Puckett, A. J. R. *et al.*
 Experiment proposal submitted to Jefferson Lab Program Advisory Committee (PAC42).
 July, 2014.
 Approval status: Deferred
[Link to proposal](#)
5. **“Target Single-Spin Asymmetries in Semi-Inclusive Pion and Kaon Electroproduction on a Transversely Polarized ^3He Target using Super BigBite and BigBite in Hall A”**
 Cates, G., Cisbani, E., Franklin, G., Puckett, A. J. R., Wojtsekhowski, B. *et al.*
 Experiment proposal submitted to Jefferson Lab Program Advisory Committee (PAC38).
 July, 2011.
 Approval status: Approved, 64 beam-days awarded, A- scientific rating.
[Link to proposal](#)
6. **“GEp/GMp with an 11 GeV Beam”**
 Brash, E. J., Jones, M. K., Perdrisat, C. F., Puckett, A. J. R., Punjabi, V. *et al.*
 Experiment proposal submitted to Jefferson Lab Program Advisory Committee (PAC37).
 January, 2011.
 Approval status: Deferred.
[Link to proposal](#)
7. **“A Detailed Study of the Reaction Mechanism in Semi-Inclusive DIS Using the CLAS12 Detector.”**
 Avakian, H., Jiang, X., Joo, K., Puckett, A. J. R. *et al.*
 Experiment proposal submitted to Jefferson Lab Program Advisory Committee (PAC35).
 January, 2010.
 Approval Status: Deferred.
[Link to proposal](#)
8. **“Measuring the Reflectivity of the High Threshold Cherenkov Counter Mirrors”**
 Puckett, A. J. R., Sharabian, Y., Joo, K., Markov, N., McClellan, M., Grewal, H., Nicholas, D. and Price, J.
 Internal CLAS12 collaboration technical report.
 Published as CLAS12-Note 2013-008, November, 2013.
[Link to report](#)

Table 1: Citation statistics, according to the [INSPIRE-HEP](#) database, as of 9/22/2016.

Citation Statistics	Citeable papers	Published only
Total number of papers analyzed	64	52
Total number of citations	1,736	1,722
Average citations per paper	27.1	33.1
<i>h</i> -index	20	20

Invited Conference Presentations (08/2013-present)

- 04/18/2016 **Experimental Overview of Nucleon Form Factors at High Momentum Transfer** *Transverse Nucleon Structure at High Momentum Transfer*. European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Trento, Italy
- 01/29/2016 **The JLab (non-SoLID) TMD Program at 6 and 11 GeV** *Solenoidal Large-Intensity Device (SoLID) workshop*. Stony Brook University, Stony Brook, NY
- 05/28/2015 **The JLab TMD Program at 6 and 11 GeV 2015 QCD Evolution Workshop**, Jefferson Lab, Newport News, VA
- 05/23/2015 **Transverse nucleon spin structure at Jefferson Lab: Past, present and future** *Twelfth Conference on the Intersections of Particle and Nuclear Physics*. Vail, Colorado.
- 11/4/2014 **SBS Science Update and Overview** *US Department of Energy (DOE) Review of the Super BigBite Spectrometer Project*. Jefferson Lab, Newport News, VA
- 6/12/2014 **The JLab 6 GeV TMD Program** *Fourth International Workshop on Transverse Polarization Phenomena In Hard Processes*. Chia, Cagliari, Italy.

Seminars and Colloquia (08/2013-present)

- 12/11/2015 **Precision Studies of the Structure of Matter in Electron Scattering** *University of Connecticut Physics Department Graduate Student Lunch Seminar* University of Connecticut, Storrs, CT.
- 4/11/2014 **The Academic Job Search** *University of Connecticut Physics Department Graduate Student Lunch Seminar* University of Connecticut, Storrs, CT.
- 3/25/2014 **Upcoming JLab-12 GeV Experiments** *P-25 Physics Seminar*. Los Alamos National Laboratory, Los Alamos, NM
- 11/15/2013 **Precision Studies of the Structure of Matter in Electron Scattering** *University of Connecticut Physics Department Graduate Student Lunch Seminar* University of Connecticut, Storrs, CT.

Contributed Conference Presentations (08/2013-present)

- 7/22/2016 **Recent Results from g4sbs** *Super BigBite Spectrometer Collaboration Meeting*. Jefferson Lab, Newport News, VA.
- 7/21/2016 **SIDIS/A1n/TDIS Overview** *Super BigBite Spectrometer Collaboration Meeting*. Jefferson Lab, Newport News, VA.
- 1/20/2016 **Monte Carlo Tools for SBS Experiments** *Hall A Winter Collaboration Meeting*. Jefferson Lab, Newport News, VA.
- 10/29/2015 **Neutron Transverse Spin Structure using BigBite and Super BigBite spectrometers in JLABs Hall A** *2015 Fall Meeting of the American Physical Society's Division of Nuclear Physics (DNP)*. Santa Fe, NM.
- 7/16/2015 **g4sbs: SBS GEANT4 Monte Carlo Simulation Status and Applications** *Super BigBite Spectrometer Collaboration Meeting*. Jefferson Lab, Newport News, VA.
- 7/15/2015 **SIDIS and A1n Overview** *Super BigBite Spectrometer Collaboration Meeting*. Jefferson Lab, Newport News, VA.
- 7/8/2014 **RICH Detector for SBS** *Super BigBite Spectrometer Collaboration Meeting*. Jefferson Lab, Newport News, VA.

- 7/7/2014 **Semi-Inclusive DIS Experiments Using BigBite and Super BigBite Spectrometers in Hall A** *Super BigBite Spectrometer Collaboration Meeting.* Jefferson Lab. Newport News, VA.
- 12/16/2013 **Super BigBite Spectrometer Overview** *Hall A/C Joint Collaboration Meeting.* Jefferson Lab, Newport News, VA.
- 10/26/2013 **Transverse neutron spin structure using BigBite and Super BigBite spectrometers in Jefferson Lab's Hall A.** *2013 Fall Meeting of the APS Division of Nuclear Physics.* Newport News, VA.

September 22, 2016