

# Publications and Talks List

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# 1 Citation Summary Statistics

Table 1: Total citation statistics (entire career) as of February 14, 2020, according to the INSPIRE-HEP database (<http://inspirehep.net>). Search terms are “*find doi 10.1103/PhysRevC.87.025204 or doi 10.1103/PhysRevC.89.055208 or a puckett, a and not title comet and not title asteroid*”. The “ $h_{HEP}$ ” index is the traditional h-index (the largest number such that the author has at least  $h$  papers with at least  $h$  citations each), but restricted to papers included in the INSPIRE-HEP database, which only covers nuclear, particle, and high-energy physics. To the extent that an author’s scholarly work includes papers outside these fields, it will not be included in these statistics. My scholarly career does not include significant contributions outside of the fields covered by the INSPIRE-HEP database.

INSPIRE-HEP results	All Citeable Papers	Published only
Total number of papers analyzed	94	82
Total number of citations	3,293	3,263
Average citations per paper	35.0	39.8
Renowned papers (500+)	0	0
Famous papers (250-499)	3	3
Very well-known papers (100-249)	4	4
Well-known papers (50-99)	9	9
Known papers (10-49)	39	38
Less known papers (1-9)	30	25
Unkown papers (0)	9	3
$h_{HEP}$ index	30	30

Table 2: Total citation statistics for papers published after August 23, 2013 (hire date at UConn) as of February 14, 2020, according to the INSPIRE-HEP database (<http://inspirehep.net>). Search terms are “*find doi 10.1103/PhysRevC.89.055208 or a puckett, a and date 2013-08-22->2019-12-01*”..

INSPIRE-HEP results	All Citeable Papers	Published only
Total number of papers analyzed	68	59
Total number of citations	1,323	1,306
Average citations per paper	19.5	22.1
Renowned papers (500+)	0	0
Famous papers (250-499)	0	0
Very well-known papers (100-249)	1	1
Well-known papers (50-99)	3	3
Known papers (10-49)	32	32
Less known papers (1-9)	24	20
Unkown papers (0)	8	3
$h_{HEP}$ index	24	24

Table 3: Total citation statistics as of February 14, 2020, according to [Google Scholar](#). The “i10-index” is the total number of papers with at least 10 citations. I have not audited the Google Scholar profile in detail for completeness or accuracy, but it is mostly consistent with the INSPIRE-HEP database in terms of overall numbers and citation statistics.

Google Scholar results	All	Since 2015
Citations	3,930	2,737
h-index	33	31
i10-index	61	59

## 2 Refereed Journal Articles, Published

### 1. “The CLAS12 Geant4 simulation”

M. Ungaro *et al.*  
 DOI:10.1016/j.nima.2020.163422  
 Nucl. Instrum. Meth. A **959**, 163422 (2020).  
[INSPIRE-HEP entry](#)

### 2. “Deeply virtual Compton scattering off the neutron”

M. Benali *et al.*  
 DOI:10.1038/s41567-019-0774-3  
 Nature Phys. **16**, no. 2, 191 (2020).  
[INSPIRE-HEP entry](#)

### 3. “Measurement of the cross sections for inclusive electron scattering in the E12-14-012 experiment at Jefferson Lab”

M. Murphy *et al.*  
 arXiv:1908.01802 [hep-ex]  
 DOI:10.1103/PhysRevC.100.054606  
 Phys. Rev. C **100**, no. 5, 054606 (2019)  
 JLAB-PHY-19-3013  
[INSPIRE-HEP entry](#)

### 4. “Measurement of the single-spin asymmetry $A_y^0$ in quasi-elastic ${}^3\text{He}^\uparrow(e, e'n)$ scattering at $0.4 < Q^2 < 1.0 \text{ GeV}/c^2$ ”

E. Long *et al.*  
 arXiv:1906.04075 [nucl-ex]  
 DOI:10.1016/j.physletb.2019.134875  
 Phys. Lett. B **797**, 134875 (2019)  
 JLAB-PHY-19-2949  
[INSPIRE-HEP entry](#)  
 1 citations counted in INSPIRE as of 14 Feb 2020

### 5. “Comparing proton momentum distributions in $A = 2$ and $3$ nuclei via ${}^2\text{H}$ ${}^3\text{H}$ and ${}^3\text{He}$ ( $e, e'p$ ) measurements”

R. Cruz-Torres *et al.* [Jefferson Lab Hall A Tritium Collaboration].  
 arXiv:1902.06358 [nucl-ex]  
 DOI:10.1016/j.physletb.2019.134890  
 Phys. Lett. B **797**, 134890 (2019)  
 JLAB-PHY-19-2893; LA-UR-18-31091, LA-UR-18-31091  
[INSPIRE-HEP entry](#)  
 3 citations counted in INSPIRE as of 14 Feb 2020

### 6. “First measurement of the $\text{Ar}(e, e')X$ cross section at Jefferson Laboratory”

H. Dai *et al.*  
 arXiv:1810.10575 [nucl-ex]  
 DOI:10.1103/PhysRevC.99.054608

Phys. Rev. C **99**, no. 5, 054608 (2019)

JLAB-PHY-18-2859

[INSPIRE-HEP entry](#)

14 citations counted in INSPIRE as of 14 Feb 2020

7. **“Measurements of Non-Singlet Moments of the Nucleon Structure Functions and Comparison to Predictions from Lattice QCD for  $Q^2 = 4 \text{ GeV}^2$ ”**  
Measurements of Nonsinglet Moments of the Nucleon Structure Functions and Comparison to Predictions from Lattice QCD for  $Q^2 = 4 \text{ GeV}^2$   
I. Albayrak *et al.* [E06-009 Collaboration].  
arXiv:1807.06061 [nucl-ex]  
DOI:10.1103/PhysRevLett.123.022501  
Phys. Rev. Lett. **123**, no. 2, 022501 (2019)  
[INSPIRE-HEP entry](#)  
1 citations counted in INSPIRE as of 14 Feb 2020
8. **“Revealing Color Forces with Transverse Polarized Electron Scattering”**  
W. Armstrong *et al.* [SANE Collaboration].  
arXiv:1805.08835 [nucl-ex]  
DOI:10.1103/PhysRevLett.122.022002  
Phys. Rev. Lett. **122**, no. 2, 022002 (2019)  
[INSPIRE-HEP entry](#)  
4 citations counted in INSPIRE as of 14 Feb 2020
9. **“Measurement of double-polarization asymmetries in the quasi-elastic  $^3\text{He}(\vec{e}, e'p)$  process”**  
M. Mihovilović *et al.* [Jefferson Lab Hall A Collaboration].  
arXiv:1804.06043 [nucl-ex]  
DOI:10.1016/j.physletb.2018.10.063  
Phys. Lett. B **788**, 117 (2019)  
JLAB-PHY-18-2681  
[INSPIRE-HEP entry](#)  
3 citations counted in INSPIRE as of 14 Feb 2020
10. **“First Measurement of the  $\text{Ti}(e, e')X$  Cross Section at Jefferson Lab”**  
H. Dai *et al.* [Jefferson Lab Hall A Collaboration].  
arXiv:1803.01910 [nucl-ex]  
DOI:10.1103/PhysRevC.98.014617  
Phys. Rev. C **98**, no. 1, 014617 (2018)  
SLAC-PUB-17200, JLAB-PHY-18-2656  
[INSPIRE-HEP entry](#)  
13 citations counted in INSPIRE as of 14 Feb 2020
11. **“Design and Performance of the Spin Asymmetries of the Nucleon Experiment”**  
J. D. Maxwell *et al.*.  
arXiv:1711.09089 [physics.ins-det]  
DOI:10.1016/j.nima.2017.12.008  
Nucl. Instrum. Meth. A **885**, 145 (2018)  
JLAB-PHY-17-2595  
[INSPIRE-HEP entry](#)  
4 citations counted in INSPIRE as of 14 Feb 2020
12. **“Polarization Transfer Observables in Elastic Electron Proton Scattering at  $Q^2 = 2.5, 5.2, 6.8, \text{ and } 8.5 \text{ GeV}^2$ ”**  
A. J. R. Puckett *et al.*.  
arXiv:1707.08587 [nucl-ex]  
DOI:10.1103/PhysRevC.98.019907, 10.1103/PhysRevC.96.055203  
Phys. Rev. C **96**, no. 5, 055203 (2017), Erratum: [Phys. Rev. C **98**, no. 1, 019907 (2018)]  
JLAB-PHY-17-2533  
[INSPIRE-HEP entry](#)  
32 citations counted in INSPIRE as of 14 Feb 2020

13. **“Technical Supplement to ”Polarization Transfer Observables in Elastic Electron-Proton Scattering at  $Q^2 = 2.5, 5.2, 6.8, \text{ and } 8.5 \text{ GeV}^2$ ”**  
A. J. R. Puckett *et al.* [Gep-III, GEp-2Gamma Collaboration].  
arXiv:1707.07750 [nucl-ex]  
DOI:10.1016/j.nima.2018.09.022  
Nucl. Instrum. Meth. A **910**, 54 (2018)  
JLAB-PHY-18-2811  
[INSPIRE-HEP entry](#)  
1 citations counted in INSPIRE as of 14 Feb 2020
14. **“The SeaQuest Spectrometer at Fermilab”**  
C. A. Aidala *et al.* [SeaQuest Collaboration].  
arXiv:1706.09990 [physics.ins-det]  
DOI:10.1016/j.nima.2019.03.039  
Nucl. Instrum. Meth. A **930**, 49 (2019)  
FERMILAB-PUB-17-209-E  
[INSPIRE-HEP entry](#)  
14 citations counted in INSPIRE as of 14 Feb 2020
15. **“Differential cross sections and polarization observables from CLAS  $K^*$  photoproduction and the search for new  $N^*$  states”**  
A. V. Anisovich *et al.* [CLAS Collaboration].  
DOI:10.1016/j.physletb.2017.05.029  
Phys. Lett. B **771**, 142 (2017).  
JLAB-PHY-17-2469  
[INSPIRE-HEP entry](#)  
6 citations counted in INSPIRE as of 14 Feb 2020
16. **“Extraction of the Neutron Electric Form Factor from Measurements of Inclusive Double Spin Asymmetries”**  
V. Sulkosky *et al.*.  
arXiv:1704.06253 [nucl-ex]  
DOI:10.1103/PhysRevC.96.065206  
Phys. Rev. C **96**, no. 6, 065206 (2017)  
JLAB-PHY-17-2480  
[INSPIRE-HEP entry](#)  
5 citations counted in INSPIRE as of 14 Feb 2020
17. **“A glimpse of gluons through deeply virtual compton scattering on the proton”**  
M. Defurne *et al.*.  
arXiv:1703.09442 [hep-ex]  
DOI:10.1038/s41467-017-01819-3  
Nature Commun. **8**, no. 1, 1408 (2017)  
JLAB-PHY-17-2492  
[INSPIRE-HEP entry](#)  
11 citations counted in INSPIRE as of 14 Feb 2020
18. **“Exclusive  $\eta$  electroproduction at  $W > 2 \text{ GeV}$  with CLAS and transversity generalized parton distributions”**  
I. Bedlinskiy *et al.* [CLAS Collaboration].  
arXiv:1703.06982 [nucl-ex]  
DOI:10.1103/PhysRevC.95.035202  
Phys. Rev. C **95**, no. 3, 035202 (2017)  
[INSPIRE-HEP entry](#)  
7 citations counted in INSPIRE as of 14 Feb 2020
19. **“Rosenbluth separation of the  $\pi^0$  Electroproduction Cross Section off the Neutron”**  
M. Mazouz *et al.* [Jefferson Lab Hall A Collaboration].  
arXiv:1702.00835 [hep-ex]

DOI:10.1103/PhysRevLett.118.222002  
Phys. Rev. Lett. **118**, no. 22, 222002 (2017)  
JLAB-PHY-17-2435  
[INSPIRE-HEP entry](#)  
9 citations counted in INSPIRE as of 14 Feb 2020

20. **“Target and beam-target spin asymmetries in exclusive pion electroproduction for  $Q^2 > 1$  GeV<sup>2</sup>. II.  $ep \rightarrow e\pi^0 p$ ”**  
P. E. Bosted *et al.* [CLAS Collaboration].  
arXiv:1611.04987 [nucl-ex]  
DOI:10.1103/PhysRevC.95.035207  
Phys. Rev. C **95**, no. 3, 035207 (2017)  
JLAB-PHY-16-2388  
[INSPIRE-HEP entry](#)  
3 citations counted in INSPIRE as of 14 Feb 2020
21. **“JLab Measurements of the <sup>3</sup>He Form Factors at Large Momentum Transfers”**  
A. Camsonne *et al.*.  
arXiv:1610.07456 [nucl-ex]  
DOI:10.1103/PhysRevLett.119.209901, 10.1103/PhysRevLett.119.162501  
Phys. Rev. Lett. **119**, no. 16, 162501 (2017), Addendum: [Phys. Rev. Lett. **119**, no. 20, 209901 (2017)]  
JLAB-PHY-16-2370  
[INSPIRE-HEP entry](#)  
2 citations counted in INSPIRE as of 14 Feb 2020
22. **“Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS”**  
M. Mayer *et al.* [CLAS Collaboration].  
arXiv:1610.06109 [nucl-ex]  
DOI:10.1103/PhysRevC.95.024005  
Phys. Rev. C **95**, no. 2, 024005 (2017)  
JLAB-PHY-16-2371  
[INSPIRE-HEP entry](#)  
4 citations counted in INSPIRE as of 14 Feb 2020
23. **“First measurement of unpolarized semi-inclusive deep-inelastic scattering cross sections from a <sup>3</sup>He target”**  
X. Yan *et al.* [Jefferson Lab Hall A Collaboration].  
arXiv:1610.02350 [nucl-ex]  
DOI:10.1103/PhysRevC.95.035209  
Phys. Rev. C **95**, no. 3, 035209 (2017)  
JLAB-PHY-16-2361  
[INSPIRE-HEP entry](#)  
6 citations counted in INSPIRE as of 14 Feb 2020
24. **“Rosenbluth separation of the  $\pi^0$  electroproduction cross section”**  
M. Defurne *et al.* [Jefferson Lab Hall A Collaboration].  
arXiv:1608.01003 [hep-ex]  
DOI:10.1103/PhysRevLett.117.262001  
Phys. Rev. Lett. **117**, no. 26, 262001 (2016)  
JLAB-PHY-16-2309  
[INSPIRE-HEP entry](#)  
25 citations counted in INSPIRE as of 14 Feb 2020
25. **“Target and Beam-Target Spin Asymmetries in Exclusive Pion Electroproduction for  $Q^2 > 1$  GeV<sup>2</sup>. I.  $ep \rightarrow e\pi^+ n$ ”**  
P. E. Bosted *et al.* [CLAS Collaboration].  
arXiv:1607.07518 [nucl-ex]  
DOI:10.1103/PhysRevC.95.035206

Phys. Rev. C **95**, no. 3, 035206 (2017)

JLAB-PHY-16-2294

[INSPIRE-HEP entry](#)

2 citations counted in INSPIRE as of 14 Feb 2020

26. **“Measurement of Target and Double-spin Asymmetries for the  $\vec{e}\vec{p} \rightarrow e\pi^+(n)$  Reaction in the Nucleon Resonance Region at Low  $Q^2$ ”**

X. Zheng *et al.* [CLAS Collaboration].

arXiv:1607.03924 [nucl-ex]

DOI:10.1103/PhysRevC.94.045206

Phys. Rev. C **94**, no. 4, 045206 (2016)

JLAB-PHY-16-2307

[INSPIRE-HEP entry](#)

4 citations counted in INSPIRE as of 14 Feb 2020

27. **“Photoproduction of the  $f_1(1285)$  Meson”**

R. Dickson *et al.* [CLAS Collaboration].

arXiv:1604.07425 [nucl-ex]

DOI:10.1103/PhysRevC.93.065202

Phys. Rev. C **93**, no. 6, 065202 (2016)

JLAB-PHY-16-2270

[INSPIRE-HEP entry](#)

25 citations counted in INSPIRE as of 14 Feb 2020

28. **“Target and beam-target spin asymmetries in exclusive  $\pi^+$  and  $\pi^-$  electroproduction with 1.6- to 5.7-GeV electrons”**

P. E. Bosted *et al.* [CLAS Collaboration].

arXiv:1604.04350 [nucl-ex]

DOI:10.1103/PhysRevC.94.055201

Phys. Rev. C **94**, no. 5, 055201 (2016)

JLAB-PHY-16-2294

[INSPIRE-HEP entry](#)

7 citations counted in INSPIRE as of 14 Feb 2020

29. **“Photoproduction of  $\Lambda$  and  $\Sigma^0$  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)

JLAB-PHY-16-2293

[INSPIRE-HEP entry](#)

36 citations counted in INSPIRE as of 14 Feb 2020

30. **“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]

DOI:10.1103/PhysRevC.95.065201

Phys. Rev. C **95**, no. 6, 065201 (2017)

[INSPIRE-HEP entry](#)

39 citations counted in INSPIRE as of 14 Feb 2020

31. **“First measurement of the helicity asymmetry  $E$  in  $\eta$  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

[INSPIRE-HEP entry](#)

28 citations counted in INSPIRE as of 14 Feb 2020

32. **“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  
[INSPIRE-HEP entry](#)  
12 citations counted in INSPIRE as of 14 Feb 2020
33. **“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  
[INSPIRE-HEP entry](#)  
58 citations counted in INSPIRE as of 14 Feb 2020
34. **“Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region  $E_\gamma = 1.1 - 2.3$  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  
[INSPIRE-HEP entry](#)  
8 citations counted in INSPIRE as of 14 Feb 2020
35. **“First Measurement of the Polarization Observable E in the  $\bar{p}(\vec{\gamma}, \pi^+)n$  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  
[INSPIRE-HEP entry](#)  
23 citations counted in INSPIRE as of 14 Feb 2020
36. **“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  
[INSPIRE-HEP entry](#)  
17 citations counted in INSPIRE as of 14 Feb 2020
37. **“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  
[INSPIRE-HEP entry](#)  
13 citations counted in INSPIRE as of 14 Feb 2020



38. **“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  
[INSPIRE-HEP entry](#)  
46 citations counted in INSPIRE as of 14 Feb 2020
39. **“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  
[INSPIRE-HEP entry](#)  
41 citations counted in INSPIRE as of 14 Feb 2020
40. **“Momentum sharing in imbalanced Fermi systems”**  
O. Hen *et al.*.  
arXiv:1412.0138 [nucl-ex]  
DOI:10.1126/science.1256785  
Science **346**, 614 (2014)  
[INSPIRE-HEP entry](#)  
139 citations counted in INSPIRE as of 14 Feb 2020
41. **“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  
[INSPIRE-HEP entry](#)  
60 citations counted in INSPIRE as of 14 Feb 2020
42. **“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  
[INSPIRE-HEP entry](#)  
38 citations counted in INSPIRE as of 14 Feb 2020
43. **“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  
[INSPIRE-HEP entry](#)  
14 citations counted in INSPIRE as of 14 Feb 2020
44. **“Measurement of double-polarization asymmetries in the quasielastic  ${}^3\vec{\text{He}}(\vec{e}, e'd)$  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  
[INSPIRE-HEP entry](#)

5 citations counted in INSPIRE as of 14 Feb 2020

45. **“Exclusive  $\pi^0$  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

[INSPIRE-HEP entry](#)

31 citations counted in INSPIRE as of 14 Feb 2020

46. **“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

[INSPIRE-HEP entry](#)

40 citations counted in INSPIRE as of 14 Feb 2020

47. **“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

[INSPIRE-HEP entry](#)

30 citations counted in INSPIRE as of 14 Feb 2020

48. **“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)]

[INSPIRE-HEP entry](#)

45 citations counted in INSPIRE as of 14 Feb 2020

49. **“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

[INSPIRE-HEP entry](#)

28 citations counted in INSPIRE as of 14 Feb 2020

50. **“Measurement of the structure function of the nearly free neutron using spectator tagging in inelastic  $^2\text{H}(e, e'p)\text{X}$  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

[INSPIRE-HEP entry](#)

48 citations counted in INSPIRE as of 14 Feb 2020

51. **“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

[INSPIRE-HEP entry](#)

39 citations counted in INSPIRE as of 14 Feb 2020

52. **“Measurement of pretzelosity asymmetry of charged pion production in Semi-Inclusive Deep Inelastic Scattering on a polarized  $^3\text{He}$  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

[INSPIRE-HEP entry](#)

24 citations counted in INSPIRE as of 14 Feb 2020

53. **“Single spin asymmetries of inclusive hadrons produced in electron scattering from a transversely polarized  $^3\text{He}$  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

[INSPIRE-HEP entry](#)

43 citations counted in INSPIRE as of 14 Feb 2020

54. **“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

[INSPIRE-HEP entry](#)

24 citations counted in INSPIRE as of 14 Feb 2020

55. **“JLab Measurement of the  $^4\text{He}$  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

[INSPIRE-HEP entry](#)

12 citations counted in INSPIRE as of 14 Feb 2020

56. **“ $\phi$ -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

[INSPIRE-HEP entry](#)

32 citations counted in INSPIRE as of 14 Feb 2020

57. **“First Observation of the  $\Lambda(1405)$  Line Shape in Electroproduction”**  
H. Y. Lu *et al.* [CLAS Collaboration].  
arXiv:1307.4411 [nucl-ex]  
DOI:10.1103/PhysRevC.88.045202  
Phys. Rev. C **88**, 045202 (2013)  
JLAB-PHY-13-1758  
[INSPIRE-HEP entry](#)  
23 citations counted in INSPIRE as of 14 Feb 2020
58. **“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  
[INSPIRE-HEP entry](#)  
26 citations counted in INSPIRE as of 14 Feb 2020
59. **“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  
[INSPIRE-HEP entry](#)  
78 citations counted in INSPIRE as of 14 Feb 2020
60. **“Hard Two-body Photodisintegration of  $^3\text{He}$ ”**  
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  
[INSPIRE-HEP entry](#)  
7 citations counted in INSPIRE as of 14 Feb 2020
61. **“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  
[INSPIRE-HEP entry](#)  
16 citations counted in INSPIRE as of 14 Feb 2020
62. **“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  
[INSPIRE-HEP entry](#)  
4 citations counted in INSPIRE as of 14 Feb 2020
63. **“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

[INSPIRE-HEP entry](#)

15 citations counted in INSPIRE as of 14 Feb 2020

64. **“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 [nucl-ex]

DOI:10.1103/PhysRevC.87.025204

Phys. Rev. C **87**, no. 2, 025204 (2013)

JLAB-PHY-13-4

[INSPIRE-HEP entry](#)

17 citations counted in INSPIRE as of 14 Feb 2020

65. **“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

[INSPIRE-HEP entry](#)

3 citations counted in INSPIRE as of 14 Feb 2020

66. **“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

[INSPIRE-HEP entry](#)

32 citations counted in INSPIRE as of 14 Feb 2020

67. **“Measurement of Exclusive  $\pi^0$  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

[INSPIRE-HEP entry](#)

64 citations counted in INSPIRE as of 14 Feb 2020

68. **“Deep exclusive  $\pi^+$  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

[INSPIRE-HEP entry](#)

14 citations counted in INSPIRE as of 14 Feb 2020

69. **“Measurement of the Neutron Radius of  $^{208}\text{Pb}$  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  
[INSPIRE-HEP entry](#)  
337 citations counted in INSPIRE as of 14 Feb 2020

70. **“Polarization components in  $\pi^0$  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  
[INSPIRE-HEP entry](#)  
9 citations counted in INSPIRE as of 14 Feb 2020
71. **“Beam-Target Double Spin Asymmetry  $A_{LT}$  in Charged Pion Production from Deep Inelastic Scattering on a Transversely Polarized He-3 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  
[INSPIRE-HEP entry](#)  
62 citations counted in INSPIRE as of 14 Feb 2020
72. **“Single Spin Asymmetries in Charged Pion Production from Semi-Inclusive Deep Inelastic Scattering on a Transversely Polarized  $^3\text{He}$  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  
[INSPIRE-HEP entry](#)  
218 citations counted in INSPIRE as of 14 Feb 2020
73. **“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  
[INSPIRE-HEP entry](#)  
98 citations counted in INSPIRE as of 14 Feb 2020
74. **“Final Analysis of Proton Form Factor Ratio Data at  $Q^2 = 4.0, 4.8$  and  $5.6 \text{ GeV}^2$ ”**  
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  
[INSPIRE-HEP entry](#)  
146 citations counted in INSPIRE as of 14 Feb 2020
75. **“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

[INSPIRE-HEP entry](#)

83 citations counted in INSPIRE as of 14 Feb 2020

76. **“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  
[INSPIRE-HEP entry](#)  
27 citations counted in INSPIRE as of 14 Feb 2020
  
77. **“Measurements of the Electric Form Factor of the Neutron up to  $Q^2 = 3.4 \text{ GeV}^2$  using the Reaction  ${}^3\vec{H}e(\vec{e}, e'n)pp$ ”**  
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  
[INSPIRE-HEP entry](#)  
116 citations counted in INSPIRE as of 14 Feb 2020
  
78. **“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  
[INSPIRE-HEP entry](#)  
263 citations counted in INSPIRE as of 14 Feb 2020
  
79. **“Polarization Observables in Deuteron Photodisintegration below 360 MeV”**  
J. Glistler *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  
[INSPIRE-HEP entry](#)  
6 citations counted in INSPIRE as of 14 Feb 2020
  
80. **“Polarization Transfer in the  $4\text{He}(e,e'p)3\text{H}$  Reaction at  $Q^2 = 0.8$  and  $1.3 \text{ (GeV/c)}^2$ ”**  
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  
[INSPIRE-HEP entry](#)  
91 citations counted in INSPIRE as of 14 Feb 2020
  
81. **“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  
[INSPIRE-HEP entry](#)  
70 citations counted in INSPIRE as of 14 Feb 2020

82. **“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  
[INSPIRE-HEP entry](#)  
259 citations counted in INSPIRE as of 14 Feb 2020

### 3 Refereed Journal Articles, in preparation (submitted or soon-to-be-submitted for publication)

Note: This list only includes works in preparation that have already been posted to the e-print [archive](#), and have advanced to a stage of readiness for journal submission. For brevity, this list omits several other works in earlier stages of preparation.

1. **“Probing few-body nuclear dynamics via  $^3\text{H}$  and  $^3\text{He}$  ( $e, e'p$ )pn cross-section measurements”**  
R. Cruz-Torres *et al.* [Jefferson Lab Hall A Tritium Collaboration].  
arXiv:2001.07230 [nucl-ex]  
[INSPIRE-HEP entry](#)
2. **“Measurement of the  $^3\text{He}$  Spin-Structure Functions and of Neutron ( $^3\text{He}$ ) Spin-Dependent Sum Rules at  $0.035 \leq Q^2 \leq 0.24 \text{ GeV}^2$ ”**  
V. Sulkosky *et al.* [E97-110 Collaboration].  
arXiv:1908.05709 [nucl-ex]  
JLAB-PHY-19-3015  
[INSPIRE-HEP entry](#)
3. **“Proton Form Factor Ratio,  $\mu_p G_E^p/G_M^p$  from Double Spin Asymmetry”**  
A. Liyanage *et al.*.  
arXiv:1806.11156 [nucl-ex]  
[INSPIRE-HEP entry](#)  
1 citations counted in INSPIRE as of 14 Feb 2020
4. **“Dispersive Corrections to the Born Approximation in Elastic Electron-Nucleus Scattering in the Intermediate Energy Regime”**  
P. Gueye *et al.*.  
arXiv:1805.12441 [nucl-ex]  
JLAB-PHY-18-2707, JLAB-PHY-18-2707  
[INSPIRE-HEP entry](#)

### 4 Conference Proceedings

1. **“The JLab TMD Program at 6 GeV and 11 GeV”**  
A. Puckett.  
DOI:10.22323/1.249.0029  
PoS QCDEV **2015**, 029 (2015).  
JLAB-PHY-16-2229  
[INSPIRE-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  
[INSPIRE-HEP entry](#)  
1 citations counted in INSPIRE as of 14 Feb 2020



3. **“High precision measurements of the neutron spin structure in Hall A at Jlab”**  
 J. R. M. Annand *et al.*  
 DOI:10.22323/1.157.0047  
 PoS QNP **2012**, 047 (2012).  
 JLAB-PHY-12-1507  
[INSPIRE-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  
[INSPIRE-HEP entry](#)  
 12 citations counted in INSPIRE as of 14 Feb 2020
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  
[INSPIRE-HEP entry](#)

## 5 Major Unpublished Works

This section includes works that are not published in refereed journals, but nevertheless represent a large amount of scholarly effort and output, including experiment proposals submitted to the JLab PAC as a spokesperson (regardless of approval status), major software packages my group plays a lead role in developing and maintaining, other miscellaneous technical documents and reports, and the published online version of my doctoral dissertation.

1. **“Physics with Positron Beams at Jefferson Lab 12 GeV”**  
 A. Afanasev *et al.*  
 arXiv:1906.09419 [nucl-ex]  
 Jefferson Lab LOI12-18-004  
[INSPIRE-HEP entry](#)  
 1 citations counted in INSPIRE as of 01 Dec 2019
2. **“*g4sbs*: Monte Carlo simulation package for the SBS experiments”**  
 Puckett, A. J. R., Riordan, S., Cornejo, J.-C., Fuchey, E., Obrecht, R. F. *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.
3. **“Measurements of Semi-Inclusive DIS Double-Spin Asymmetries on a Longitudinally Polarized  $^3\text{He}$  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](#)
4. **“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](#)

5. **“Target Single-Spin Asymmetries in Semi-Inclusive Pion and Kaon Electroproduction on a Transversely Polarized  $^3\text{He}$  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. **“Deuteron Electro-Disintegration at Very High Missing Momenta”**

W. U. Boeglin *et al.*

arXiv:1410.6770 [nucl-ex]

JEFFERSON-LAB-EXPERIMENT-E12-10-003, JLAB-PHY-14-1979

[INSPIRE-HEP entry](#)

7 citations counted in INSPIRE as of 14 Feb 2020

8. **“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](#)

9. **“Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to High Momentum Transfer”**

A. J. R. Puckett.

arXiv:1508.01456 [nucl-ex]

JLAB-PHY-09-1127

Description: MIT Ph.D. Thesis, defended Oct. 5, 2009, accepted Oct. 13, 2009.

[INSPIRE-HEP entry](#)

8 citations counted in INSPIRE as of 14 Feb 2020

## 6 Conference Presentations, Seminars, Colloquia, and other Miscellaneous Talks (since August, 2013)

**Note:** This section provides a reasonably complete list of talks at major national and international conferences, invited seminars and colloquia, presentations at major collaboration meetings, and other notable talks relevant to my scholarly reputation, since the date of my hire at UConn, in reverse chronological order. This list *does not* include numerous other presentations given in weekly SBS collaboration phone meetings, SBS simulation and software working group meetings, and other presentations given in the context of regular reporting of the progress of my group’s ongoing research efforts to interested collaborators and stakeholders. This list also does not include numerous conference presentations given by graduate student and postdoc members of my group.

1. **Title: SBS Program and GEP Experiment Overview**

*Conference/Seminar:* Hall A Winter Collaboration Meeting

*Date:* January 31, 2020

*Location:* Newport News, VA

*Type of Talk:* Invited, plenary

2. **Title: Perspectives on Graduate Study in Physics**  
*Conference/Seminar:* Seminar at Canisius College  
*Date:* October 25, 2019  
*Location:* Buffalo, NY  
*Type of Talk:* Invited seminar for undergraduate physics and engineering students at a primarily undergraduate institution on Ph.D. programs in physics
3. **Title: Quark Structure of the Nucleon from Medium-Energy Electron Scattering at Jefferson Lab**  
*Conference/Seminar:* PHYS 5094: UConn Graduate Seminar Series  
*Date:* October 18, 2019  
*Location:* Storrs, CT  
*Type of Talk:* Seminar for first-year Ph.D. students in UConn's physics department
4. **Title: Future Measurements of Proton Electromagnetic Form Factors at Large Momentum Transfers**  
*Conference/Seminar:* Diquark Correlations in Hadron Physics: Origins, Impact, Evidence  
*Date:* September 26, 2019  
*Location:* European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT\*), Trento, Italy  
*Type of Talk:* Invited, plenary
5. **Title: RICH Detector for SIDIS**  
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* August 6, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
6. **Title: Prospects for running SIDIS after  $G_E^n$**   
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* August 6, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
7. **Title: SBS Software Status**  
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* August 5, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
8. **Title: SBS Collaboration Status**  
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* August 5, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
9. **Title: Upcoming SBS program in Hall A**  
*Conference/Seminar:* Hall A/C Summer Workshop 2019  
*Date:* June 28, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
10. **Title: Experimental Studies of Transverse Momentum Dependent Parton Distributions**  
*Conference/Seminar:* APS April Meeting 2019  
*Date:* April 14, 2019  
*Location:* Denver, CO  
*Type of Talk:* Invited, parallel
11. **Title: Nucleon Imaging at the Femtoscale via Elastic Electron-Nucleon Scattering**  
*Conference/Seminar:* University of Tennessee Physics Departmental Colloquium

- Date:* March 11, 2019  
*Location:* University of Tennessee, Knoxville, TN  
*Type of Talk:* Invited, colloquium
12. **Title: SBS Monte Carlo Simulation: Status and Results**  
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* February 27, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
  13. **Title: SBS Physics Program: Proposed and New**  
*Conference/Seminar:* SBS Collaboration Meeting  
*Date:* February 26, 2019  
*Location:* Newport News, VA  
*Type of Talk:* Invited, plenary
  14. **Title: E02-013 (GEN) Data Analysis and Archival Publication Status**  
*Conference/Seminar:* Hall A Collaboration Meeting, Winter 2019  
*Date:* January 30, 2019  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
  15. **Title: Electric Form Factor of the Neutron from Asymmetry Measurements**  
*Conference/Seminar:* Fifth Joint Meeting of the American Physical Society Division of Nuclear Physics and the Physical Society of Japan  
*Date:* October 27, 2018  
*Location:* Waikoloa, HI  
*Type of Talk:* Contributed, Parallel (given on behalf of my Ph.D. student Freddy Obrecht).
  16. **Title: Polarization Transfer Measurement of the Proton Electromagnetic Form Factor Ratio  $G_E^p/G_M^p$  to  $Q^2 = 12 \text{ GeV}^2$  using the Super BigBite Spectrometer in Hall A at Jefferson Lab**  
*Conference/Seminar:* Fifth Joint Meeting of the American Physical Society Division of Nuclear Physics and the Physical Society of Japan  
*Date:* October 26, 2018  
*Location:* Waikoloa, HI  
*Type of Talk:* Contributed, Parallel
  17. **Title: GEp and SIDIS issues**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 23, 2018  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
  18. **Title: SIDIS/TMD Program Using BigBite/Super-BigBite in Hall A**  
*Conference/Seminar:* Joint Hall A/C Summer Workshop  
*Date:* June 21, 2018  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Contributed, Plenary
  19. **Title: The High- $Q^2$  Form Factor Program at Jefferson Lab**  
*Conference/Seminar:* CIPANP 2018: Thirteenth Conference on the Intersections of Particle and Nuclear Physics  
*Date:* May 31, 2018  
*Location:* Palm Springs, CA  
*Type of talk:* Invited, Parallel
  20. **Title: The future DIS program in Jefferson Lab's Halls A and C**  
*Conference/Seminar:* DIS 2018: 26<sup>th</sup> International Workshop on Deep Inelastic Scattering and Related Subjects

*Date:* April 18, 2018  
*Location:* Kobe, Japan  
*Type of talk:* Invited, Parallel

21. **Title: Quark Structure of the Nucleon from Medium-Energy Electron Scattering at Jefferson Lab**  
*Conference/Seminar:* PHYS 5094: Graduate Student Lunch Seminar Series  
*Date:* March 2, 2018  
*Location:* University of Connecticut, Storrs, CT  
*Type of Talk:* Seminar for first-year graduate students in UConn physics department. Part of a mandatory one-credit course exposing new graduate students to research in the department.
22. **Title: RICH Status Update**  
*Conference/Seminar:* Tagged DIS Collaboration Meeting  
*Date:* February 22, 2018  
*Location:* Jefferson Lab, Newport News, VA (given remotely).  
*Type of Talk:* Invited, Plenary
23. **Title: Polarization Transfer Observables in Elastic Electron-Proton Scattering at  $Q^2 = 2.5, 5.2, 6.8,$  and  $8.5 \text{ GeV}^2$**   
*Conference/Seminar:* Jefferson Lab Physics Seminar Series.  
*Date:* January 26, 2018  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Seminar, Invited.
24. **Title: Technical Aspects of GEp-III/GEp-2 $\gamma$  Final Analysis**  
*Conference/Seminar:* Hall C Users' Group Winter Meeting  
*Date:* January 23, 2018  
*Location:* Jefferson Lab, Newport News, VA.  
*Type of Talk:* Plenary, Invited.
25. **Title: RICH Detector Status**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 14, 2017  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Plenary, contributed.
26. **Title: SIDIS/A1n**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 13, 2017  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Plenary, contributed.
27. **Title: Super BigBite Spectrometer Overview**  
*Conference/Seminar:* Joint Hall A/C Summer Meeting  
*Date:* June 22, 2017  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
28. **Title: GMN Experimental Readiness Review: Radiation Levels and Local Shielding**  
*Conference/Seminar:* Jefferson Lab Experimental Readiness Review for experiment E12-09-019 (neutron magnetic form factor)  
*Date:* June 16, 2017  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Presentation on Monte Carlo simulations of radiation dose rates and detector background levels in the context of JLab's internal readiness review of the first SBS experiment.
29. **Title: Precision Studies of Nucleon Structure at Jefferson Lab: The Super BigBite Spectrometer**  
*Conference/Seminar:* University of Connecticut Physics Department Colloquium Series.

- Date:* April 21, 2017  
*Location:* University of Connecticut, Storrs, CT  
*Type of Talk:* Departmental Colloquium.
30. **Title: Overview of the SIDIS/TMD program at Jefferson Lab**  
*Conference/Seminar:* DIS 2017: 25<sup>th</sup> International Workshop on Deep Inelastic Scattering and Related Subjects  
*Date:* April 4, 2017  
*Location:* University of Birmingham, Birmingham, United Kingdom  
*Type of Talk:* Invited, Parallel
  31. **Title: Overview of High- $Q^2$  Nucleon Form Factor Program with the Super BigBite Spectrometer in JLab's Hall A**  
*Conference/Seminar:* 2017 "April" Meeting of the American Physical Society  
*Date:* January 28, 2017  
*Location:* Washington, DC  
*Type of Talk:* Contributed, Parallel
  32. **Title: Precision Studies of the Structure of Matter in Electron Scattering**  
*Conference/Seminar:* PHYS 5094: UConn Physics Department Graduate Student Seminar Series.  
*Date:* December 9, 2016  
*Location:* University of Connecticut, Storrs, CT  
*Type of Talk:* Seminar for first-year graduate students in UConn physics department. Part of a mandatory one-credit course exposing new graduate students to research in the department.
  33. **Title: TMDs from precision spectrometer experiments in Jefferson Lab's Halls A and C: Existing results and outlook**  
*Conference/Seminar:* SPIN 2016: 22<sup>nd</sup> International Spin Symposium  
*Date:* September 26, 2016  
*Location:* University of Illinois, Urbana-Champaign, IL.  
*Type of Talk:* Invited, Parallel
  34. **Title: Recent Results from  $g_4sbs$**   
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 22, 2016  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
  35. **Title: SIDIS/A1n/TDIS Overview**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 21, 2016  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
  36. **Title: Experimental Overview of Nucleon Form Factors at High Momentum Transfer**  
*Conference/Seminar:* Transverse Nucleon Structure at High Momentum Transfer  
*Date:* April 18, 2016  
*Location:* European Center for Theoretical Studies in Nuclear Physics and Related Areas (ECT\*), Trento, Italy.  
*Type of Talk:* Invited, Plenary
  37. **Title: The JLab (non-SoLID) TMD Program at 6 and 11 GeV**  
*Conference/Seminar:* Solenoidal Large-Intensity Device (SoLID) Workshop.  
*Date:* January 29, 2016  
*Location:* Stony Brook University, Stony Brook, NY  
*Type of Talk:* Invited, Plenary
  38. **Title: Monte Carlo Tools for SBS Experiments**  
*Conference/Seminar:* Hall A Winter Collaboration Meeting  
*Date:* January 20, 2016

*Location:* Jefferson Lab, Newport News, VA

*Type of Talk:* Invited, Plenary

39. **Title: Precision Studies of the Structure of Matter in Electron Scattering**  
*Conference/Seminar:* PHYS 5094: Graduate Student Lunch Seminar Series  
*Date:* December 11, 2015  
*Location:* University of Connecticut, Storrs, CT  
*Type of Talk:* Seminar for first-year graduate students in UConn physics department. Part of a mandatory one-credit course exposing new graduate students to research in the department.
40. **Title: Neutron Transverse Spin Structure using BigBite and Super BigBite spectrometers in JLab's Hall A**  
*Conference/Seminar:* DNP 2015: 2015 Fall Meeting of the Division of Nuclear Physics of the American Physical Society  
*Date:* October 29, 2015  
*Location:* Santa Fe, NM  
*Type of Talk:* Contributed, Parallel.
41. **Title: *g<sub>4</sub>sbs*: SBS GEANT4 Monte Carlo Simulation-Status and Applications**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 16, 2015  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
42. **Title: SIDIS and A1n Overview**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 15, 2015  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
43. **Title: The JLab TMD Program at 6 and 11 GeV**  
*Conference/Seminar:* QCD Evolution Workshop  
*Date:* May 28, 2015  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, Plenary
44. **Title: Transverse Nucleon Spin Structure at Jefferson Lab: Past, present, and future**  
*Conference/Seminar:* CIPANP2015: Twelfth Conference on the Intersections of Particle and Nuclear Physics  
*Date:* May 23, 2015  
*Location:* Vail, CO  
*Type of Talk:* Invited, Parallel
45. **Title: SBS Science Update and Overview**  
*Conference/Seminar:* US Department of Energy (DOE) Review of the Super BigBite Spectrometer Project  
*Date:* November 4, 2014  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
46. **Title: RICH Detector for SBS**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 8, 2014  
*Location:* Jefferson Lab, Newport News, VA  
*Type of Talk:* Invited, plenary
47. **Title: Semi-Inclusive DIS Experiments Using BigBite and Super BigBite Spectrometers in Hall A**  
*Conference/Seminar:* Super BigBite Spectrometer Collaboration Meeting  
*Date:* July 7, 2014

*Location:* Jefferson Lab, Newport News, VA

*Type of Talk:* Invited, plenary

48. **Title: The JLab 6 GeV TMD Program**

*Conference/Seminar:* Transversity 2014: Fourth International Workshop on Transverse Polarization Phenomena in Hard Processes.

*Date:* June 12, 2014

*Location:* Chia, Cagliari, Italy.

*Type of Talk:* Invited, plenary

49. **Title: The Academic Job Search**

*Conference/Seminar:* UConn Physics Department Graduate Student Lunch Seminar Series

*Date:* April 11, 2014

*Location:* University of Connecticut, Storrs, CT

*Type of Talk:* Invited seminar for UConn graduate physics students giving my perspective on the academic job search as a recent tenure-track hire.

50. **Title: Upcoming JLab-12 GeV Experiments**

*Conference/Seminar:* P-25 group Physics Seminar

*Date:* March 25, 2014

*Location:* Los Alamos National Laboratory, Los Alamos, NM

*Type of Talk:* Invited physics seminar

51. **Title: Super BigBite Spectrometer Overview**

*Conference/Seminar:* Hall A/C Joint Collaboration/Users' Group Meeting

*Date:* December 16, 2013

*Location:* Jefferson Lab, Newport News, VA

*Type of Talk:* Invited, plenary.

52. **Title: Precision Studies of the Structure of Matter in Electron Scattering**

*Conference/Seminar:* PHYS 5094: Graduate Student Lunch Seminar Series

*Date:* November 15, 2013

*Location:* University of Connecticut, Storrs, CT

*Type of Talk:* Seminar for first-year graduate students in UConn physics department. Part of a mandatory one-credit course exposing new graduate students to research in the department.

53. **Title: Transverse neutron spin structure using BigBite and Super BigBite spectrometers in Jefferson Lab's Hall A**

*Conference/Seminar:* DNP 2013: 2013 Fall Meeting of the Division of Nuclear Physics of the American Physical Society

*Date:* October 26, 2013

*Location:* Jefferson Lab, Newport News, VA

*Type of Talk:* Contributed, parallel