

JLab Users' Organization BoD bio and Candidate Statement **Andrew Puckett, University of Connecticut**

Professional background and preparation:

2019-present: Associate Professor, UConn

2013-2019: Assistant Professor, UConn

2012-2013: Staff Scientist, Hall B Group, Jefferson Lab

2009-2011: Director's Postdoctoral Fellow, Los Alamos National Laboratory

2009: Ph.D., Physics, MIT. Thesis: "[Recoil Polarization Measurements of the Proton Electromagnetic Form Factor Ratio to High Momentum Transfer](#)"

2004: B.S., Physics, UVA

Website:

<https://puckett.physics.uconn.edu/>

Publication list:

<https://puckett.physics.uconn.edu/publist/>

Research Experience, Expertise and Interests:

Precision studies of nucleon structure via high-momentum-transfer inclusive, exclusive, and semi-inclusive processes. High- Q^2 nucleon electromagnetic form factors via double-polarization observables and cross section ratio measurements. Transverse single-spin asymmetries in semi-inclusive DIS, Collins/Sivers effects, TMDs and 3D structure. The main current emphasis of my research is the upcoming family of experiments in JLab's Hall A known as the Super BigBite Spectrometer (SBS) program. I am co-spokesperson of three of the fully approved experiments in the SBS program: E12-07-109 (GEp/GMp using polarization transfer), E12-09-018 (SIDIS on a transversely polarized ^3He ("neutron") target), and E12-20-008 (Polarization transfer in wide-angle charged pion photoproduction from the neutron).

Professional Service/Memberships:

- *Ad hoc*/mail-in reviewer for federal granting agencies, average of ~1-3 reviews/year for both DOE and NSF. NSF panel reviewer (once in last five years)
- Served on JLab experiment readiness review committee, 2019
- Hall A Collaboration Coordinating Committee, 2017-2019
- SBS Collaboration Coordinating Committee, 2013-present:
 - E12-09-018 representative: 2013-2019
 - E12-07-109 representative: 2020-present
 - Chair: 2019-2021
- UConn physics department weekly colloquium organization, 2016-present
- APS Member, 2005-present
 - DNP
 - GHP
- Frequent peer reviewer for scientific journals.

Candidate Statement:

I have been involved in Jefferson Lab research since the start of my research career as a thesis student on experiment E04-108. At various stages of my career, I have been involved in the research programs of Halls A, B, and C, and as such I am familiar with the collaborations, culture, governance, and issues facing researchers in all three of the "electron beam" halls at JLab. The JLab user community faces both

short-term and long-term challenges. In the short term, the JLUO BOD must play a leading role in supporting and maintaining, as much as possible, the strong national and international user community organized around the lab's fundamental science program. In particular, we must continue to advocate for the interests and concerns of the user community with lab management and federal funding agencies, communicate the impacts of lab decision-making on users, and continue and increase our strong advocacy as citizens for the importance of our work to the nation by maintaining effective communication with our elected officials and the general public. In the medium-to-long term, the JLab user community must sustain the efficient execution of the JLab 12 GeV science program for maximum impact and productivity, while simultaneously planning for the eventual transition to the EIC era. If elected, I would be honored to serve the JLab user community as an at-large member of the JLUO BOD, and I would do my best to be an effective advocate for our common interests and shared scientific goals.