# **Appendix 01: Biographical Sketch – Senior Investigators** Jonathan Asaadi

**Education and Training** 

<u>Institution</u>	<u>Location</u>	<u>Major</u>	<u>Degree &amp; Year</u>
Undergraduate Institution	University of Iowa	Physics	B.S. 2004
Graduate Institution	Texas A&M University	Physics	M.S. 2007
Graduate Institution	Texas A&M University	Physics	PhD. 2012

**Research and Professional Experience** 

Assistant Professor	University of Texas Arlington	2015 – Present
Postdoctoral Researcher	Syracuse University	2012 - 2015

## **Relevant Publications**

First measurement of the cross section for  $\nu_{\mu}$  and  $\overline{\nu}_{\mu}$  induced single charged pion production on argon using ArgoNeuT

ArgoNeuT Collaboration: R. Acciarri et al

Phys. Rev. D 98, 052002 (2018), arXiv: 1804.10294 (Reviewer and Collaborator)

Tetraphenyl Butadiene Emanation and Bulk Fluorescence from Wavelength Shifting **Coatings in Liquid Argon** 

J. Asaadi, B. J. P. Jones, A. Tripathi, I. Parmaksiz, H. Sullivan, Z. G. R. Williams Submitted to JINST, arXiv: 1804.00011 (Primary author and primary analyzer)

First Demonstration of a Pixelated Charge Readout for Single-Phase Liquid Argon Time **Projection Chambers** 

J. Asaadi, M. Auger, A. Ereditato, D. Goeldi, R. Haenni, U. Kose, I Kreslo, D. Lorca, M. Luethi, C. Rudolf Von Rohr, J. R. Sinclair, F. Stocker, C. Tognina, M. Weber Submitted to JINST, arXiv:1801.08884 (Contributing author and analyzer)

A New Light Higgs Boson and Short-Baseline Neutrino Anomalies J. Asaadi, E. Church, R. Guenette, B. J. P. Jones, A. M. Szelc

Phys. Rev. D 97, 075021 (2018), arXiv:1712.08019 (Contributing author and analyzer)

Design and construction of the MicroBooNE Detector

MicroBooNE Collaboration: R. Acciarri, et. al JINST 12 P02017 (2017) arXiv:1612.05824 (Contributing author and analyzer)

First Observation of Low Energy Electron Neutrinos in Liquid Argon TPC Detectors ArgoNeuT Collaboration: R. Acciarri et al Phys. Rev. D 95, 072005 (2017), arXiv: 1610.04102 (Reviewer and collaborator)

Construction and Assembly of the Wire Planes for the MicroBooNE Time Projection Chamber

R. Acciarri, C. Adams, J. Asaadi, J. Danaher, B.T. Fleming, R. Gardner, S. Gollapinni, R. Grosso, R. Guenette, B.R. Littlejohn, S. Lockwitz, J.L. Raaf, M. Soderberg, J. St. John, T. Strauss, A.M. Szelc, B. Yu JINST 12 T03003 (2017), arXiv:1609.06169 (Contributing author and analyzer)

Measurement of  $v_{\mu}$  and  $\overline{v}_{\mu}$  Neutral Current  $\pi^0 \rightarrow \gamma \gamma$  Production in the ArgoNeuT Detector ArgoNeuT Collaboration: R. Acciarri et al

Phys. Rev. D 96, 012006 (2017), arXiv:1511.00941 (Primary author and primary analyzer)

Testing of High Voltage Surge Protection Devices for Use in Liquid Argon TPC Detectors J. Asaadi, J.M. Conrad, S. Gollapinni, B.J.P. Jones, H. Jostlein, J.M. St. John, T. Strauss, S. Wolbers, J.

JINST 9 P09002 (2014), arXiv:1406.5216 (Primary author and primary analyzer)

The detection of back-to-back proton pairs in Charged-Current neutrino interactions with the ArgoNeuT detector in the NuMI low energy beam

ArgoNeuT Collaboration: R. Acciarri et al

Phys. Rev. D 90, 012008 (2014), arXiv:1405.4261 (Reviewer and collaborator)

# **Synergistic Activities**

- Deputy co-convener of ICARUS TPC Electronics
- **CENF-ND Experimental Cross-Section Working Group Convener** (in collaboration with Dr. Sara Bolognesi, 2018 - Present)
- **Co-Spokesperson for the LArIAT Experiment** (in collaboration with Dr. Jen Raaf, 2016-Present)
- Fermilab Detector R&D Advisory Board Member (November 2016 Present)
- MicroBooNE TPC Subsystem Lead (October 2015 Present)

#### **Collaborators and Co-Editors:**

Adam Aurisano University of Cincinnati Collaborator Bruce Baller Fermilab Collaborator Tim Bolton Kansas State University Collaborator Carl Bromberg Michigan State University Collaborator Flavio Cavanna Fermilab Collaborator Eric Church Pacific Northwest National Laboratory Collaborator Janet Conrad Massachusetts Institute of Technology Collaborator Bhaskar Dutta Texas A&M Graduate Advisor Bern University Antonio Ereditato Collaborator Collaborator Bonnie Fleming Yale University Teruki Kamon Texas A&M University Graduate Advisor Igro Kreslo Bern University Collaborator Ornella Palamara Fermilab Collaborator Jennifer Raaf Fermilab Collaborator Brian Rebel Fermilab Collaborator Mitch Soderberg Syracuse University Post-doctoral Advisor

University of Michigan Josh Spitz Collaborator Andrzei Szlec Manchester University Collaborator

David Toback Texas A&M University Graduate Advisor (Chair)

Michele Weber Bern University Collaborator Fermilab Tingjun Yang Collaborator Geralyn Zeller Fermilab Collaborator

### **Graduate Advisors and Postdoctoral Sponsors**

Prof. David Toback (Texas A&M)

Prof. Mitch Soderberg (Syracuse University)

#### **Graduate Students and Postdoctoral Associates**

Andrea Falcone University of Texas Arlington Post-doctoral Researcher

University of Texas Arlington Zach Williams Graduate Student University of Texas Arlington Hunter Sullivan Graduate Student