Louis Jensen

Doctoral Student of Computer Science
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EDUCATION

Boston University   Boston, MA
Doctoral Student of Computer Science   *Sep 2017 - Present*
- Recipient of Boston University Graduate Fellowship 2017-2022

University of Notre Dame   Notre Dame, IN
Bachelors of Science in Physics   *Aug 2013 - May 2017*
- Graduated with Honors Physics
- Senior Thesis: Precise Measurement of Drift Velocities in Active-Target Detectors

RELEVANT COURSEWORK

Computational Methods in Quantum Physics, Quantum Mechanics II, Nuclear Physics, Advanced Astrophysics, Complex Variables, Electromagnetic Waves, Statistics, Advanced Algorithms, Compressive Sensing

EXPERIENCE

Boston University   Boston, MA
Graduate Research Assistant   *Jan 2018 - Present*
- Adviser: Dr. Peter Chin
- Research Interests: Machine Learning for Signal Processing and Time-Series Data, Compressive Sensing, Generative Adversarial Networks

Boston University   Boston, MA
Graduate Teaching Assistant   *Sep 2017 - Dec 2017*
- CS112: A course in intermediate programming techniques for Java

Institute for Structure and Nuclear Astrophysics   Notre Dame, IN
Undergraduate Research Assistant   *Sep 2014 - May 2017*
- Adviser: Dr. Tan Ahn
- Research Interests: Development of the ND-Cube Active Target Detector, Experimental Nuclear Structure

PUBLICATIONS

T. Ahn, D. Bardayan, D. Bazin, S. Beceiro Novo, F. Becchetti, J. Bradt, M. Brodeur, L. Carpenter, Z. Chajecki, M. Cortesi, A. Fritsch, M. Hall, O. Hall, **L. Jensen**, J. Kolata, W. Lynch, W. Mittig, P. O'Malley, D. Suzuki, "The Prototype Active-Target Time-Projection Chamber used with TwinSol Radioactive-Ion Beams," *Nuclear Instruments and Methods in Physics Research B*, vol. 376, pp. 321-325, Jan. 2016.

PRESENTATIONS

[1] "The Precise Measurement of Drift Velocities in Active Target Detectors," at *American Physical Society Division of Nuclear Physics Meeting 2016*, Vancouver, BC, Canada in Oct 2016

[2] "Methods in Data Analysis of Nuclear Physics as Applied to a ^{10}C Beam Run," at *College of Science Joint Annual Meeting 2016*, Notre Dame, IN, USA in Apr 2016

[3] "Analyzing the Structure of ^{14}O with TwinSol and AT-TPC," at *American Physical Society Division of Nuclear Physics Meeting 2015*, Santa Fe, NM, USA in Oct 2015

[4] "Measuring the Production of ^{10}C with TwinSol," at *College of Science Joint Annual Meeting 2015*, Notre Dame, IN, USA in Apr 2015

AWARDS, GRANTS & HONOURS

College of Science Summer Undergraduate Research Fellowship 2016
Glynn Honors Summer Research Grant . . . . 2015 + 2016
Curt Anderson Charity Award 2016

SKILLS

Python, Java, Matlab, LaTeX, Mathematica, Linux, Keras, Tensorflow