

Izzy Illari
The George Washington University
they/their/them pronouns
Graduate Student Representative

Biographical Sketch:

Accomplishment	Organization	Years
PhD Candidate	The George Washington University	2017-Present
Provost Diversity Fellowship	The George Washington University	2017-present
Graduate Certificate in Data Science	The George Washington University	2018-2020
Summer Pre-Dissertation Fellowship	The George Washington University	2019
M.S. in Physics	The George Washington University	2017-2019
Francis Walker Endowment Fellowship	The George Washington University	2017-2018
Tikva Jacobs '94 Scholarship	Barnard College of Columbia University	2016-2017
B.A. in Physics	Barnard College of Columbia University	2013-2017

Additional Activities:

Accomplishment	Organization	Years
Talk: "Where Gallup falls short: what social media reveals about online LGBTQ+ communities"	The George Washington University Research Days	2019
Organizing committee	APS CUWiP (Conference for Undergraduate Women in Physics) at GWU	2018
Hack 4 Queer Youth	oSTEM (Out in Science, Technology, Engineering, and Mathematics) Conference	2017

Research Interests:

My graduate career at JLab began in Spring 2018, when I joined Youri Sharabian and Will Phelps with their efforts on calibrating and maintaining the HTCC (High Threshold Cherenkov Counter) in Hall B. Since joining the HTCC group I have presented several talks at both APS conferences and CLAS collaborations on my work calibrating and analyzing sources of dark

noises in the HTCC PMTs (photomultiplier tubes), and my efforts in reducing the noise in the signals from those PMTs. The HTCC is an essential component of the new CLAS12 detector and a key component in the acquisition of new data as well as in particle identification. In addition to my hardware and software work for the HTCC group, my current research involves analysis of Rung Group K data taken in Fall 2018 where I am investigating the electroproduction of the η and η' mesons, which will provide a useful tool to study nucleon resonances N^* . I successfully defended my proposal on the topic in February 2019, and have presented talks at several conferences on the topic. I also attended HUGS (Hampton University Graduate Studies) in Summer 2019, where I was the only out nonbinary physicist.

Candidate Statement:

My experiences with the other scientists and individuals at Jefferson Lab have been invaluable to enriching my physics academic studies, and the efforts of the 12 GeV upgrade are a unique time to make inroads on new data and discoveries. In addition to the changing environment and experiments at the lab we are experiencing unprecedented change, both domestically and globally. In this respect I believe that it is important for the health of the lab and its to respond to these calls for change. I have been involved in these efforts by not only signing the JLab D&I letter, but also by expressing my interest to join JLab's pilot Diversity and by attending the focus group meetings for gender and sexuality. I believe that it is difficult for any scientist to perform good science under inadequate conditions, which not only includes proper equipment but proper treatment as individuals at the workplace. To this goal I believe that it is necessary for any representative of JLab users to also continue the on-going work of those that have already started the difficult process of beginning this dialogue. I thank the Board of Directors for considering me, and I also hope that this can be an opportunity to represent my fellow graduate students at Jefferson Lab in a way that will promote diversity and inclusion for the betterment of us as scientists, and for the betterment of our science.