

Lilly Bralts-Kelly

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Education

Macalester College

B.A. Physics (Astronomy), Mathematics
Expected May 2020

August 2016 – present

Refereed Publications

- [1] First Characterization of the Neutral ISM in Two Local Volume Dwarf Galaxies
Bralts-Kelly, L., Bulatek, A. M., Chinski, S., *et al.*
The Astrophysical Journal Letters, 2017, 848, L10

Experience

Research

Research Experience for Undergraduates

University of Michigan (advisor: Dr. Joshua Spitz)
Simulation of cosmic ray events in a liquid scintillator neutrino detector.

Summer 2018

Research Experience for Undergraduates

Montana State University (advisor: Dr. Jiong Qiu)
Imaging and analysis of magnetic reconnection in solar flare events.

Summer 2017

Undergraduate Research Assistant

Macalester College (advisor: Dr. John Cannon)
Neutral gas dynamics in dwarf galaxies; see Refereed Publications.

Spring 2017

Teaching

Tutor, Department of Physics & Astronomy, *Macalester College*

Fall 2017 – present

Preceptor, MATH 236 Linear Algebra, *Macalester College*

Fall 2018

Preceptor, MATH 312 Differential Equations, *Macalester College*

Spring 2018

Preceptor, PHYS 113 Modern Astronomy I, *Macalester College*

Spring 2018

Grader, PHYS 227 Principles of Physics II, *Macalester College*

Fall 2017

Outreach

Coordinator, Macalester College Public Observing Nights

Fall 2018 – present

President, Macalester College Physics & Astronomy Club

Fall 2018 – present

Treasurer, Macalester College Physics & Astronomy Club

Fall 2017 – Spring 2018

Honors

Dean's List, *Macalester College*

Fall 2016 – Spring 2018

Dr. Russell B. Hastings Endowed Scholarship, *Macalester College*

2017

Minnesota Space Grant Consortium Scholarship

2017

Technical Skills

INTERMEDIATE: IDL, Python, L^AT_EX

BASIC: MATLAB, Mathematica, C++, ROOT, LabVIEW, CASA, HTML, CSS