

Daniel Pfeffer

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Education

Ph.D. Physics and Astronomy, Johns Hopkins University	Expected 2019
M.A. Physics and Astronomy, Johns Hopkins University	2016
B.S. (<i>summa cum laude</i>) Mathematics and Physics, Case Western Reserve University,	2014

Employment

Graduate Student, Johns Hopkins University	2014–Present.
Research Experience for Undergraduates (REU), University of Rochester	June 2013–August 2013
Lewis Educational and Research Collaborative Internship Project (LERCIP) Intern, NASA Glenn Research Center	June 2012–August 2012
Developer, SpeculatingStocks	2011–2012

Publications

“Deconfusing intensity maps with neural networks”,
D. N. Pfeffer, P. C. Breysse and G. Stein,
[arXiv:1905.10376]

“Ultra-high-energy-cosmic-ray hot spots from tidal disruption events”,
D. N. Pfeffer, E. D. Kovetz and M. Kamionkowski,
Mon. Not. Roy. Astron. Soc. **466**, no. 3, 2922 (2017), [arXiv:1512.04959]

Awards

Rowland Prize for Innovation and Excellence in Teaching	2017
Case Western Reserve B.S. Chandrasekhar Prize	2013

Conferences

“Complete CMB Constraints for Millicharged Dark Matter”

talk at Identification of Dark Matter (IDM 2018), Brown University

July 23-27, 2018.

Cosmo Tools 2018, RWTH Aachen University

April 23-27, 2018

Cosmic Opportunities (SSI 2017), SLAC National Accelerator Laboratory

August 14-25, 2017.

“Ultra-high-energy cosmic-ray hot spots?”

talk at TeV Particle Astrophysics (TeVPA 2017), Ohio State University

August 7-11, 2017.

Cosmo-16, University of Michigan

August 8-12, 2016.

“Tidal disruption events as UHECR sources”

talk at Workshop on Multi-messenger Approaches to Cosmic Rays:
Origins and Space Frontiers (MACROS 2016), Penn State University

June 20-22, 2016.

Teaching

Head Teaching Assistant for 171.103 “Physics I”

Fall 2016-2018

Head Teaching Assistant for 171.102 “Physics II”

Spring 2016-2018

Teaching Assistant for 171.102 “Physics II”

Fall 2015

Teaching Assistant for 171.104 “Physics II”

Spring 2015

Teaching Assistant for 171.103 “Physics I”

Fall 2014

Service

Webmaster for Physics and Astronomy Graduate Student Organization at JHU

2016-2018

Webmaster for Physics and Astronomy Outreach Group at JHU

2016-2018

Active member of Physics and Astronomy Outreach Group at JHU

2014-Present