Catherine Elena Fielder

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EDUCATION

2014 - PRESENT Doctor of Philosophy in Physics

Physics and Astronomy *University of Pittsburgh*

2016 Master of Science in Physics

Physics and Astronomy University of Pittsburgh

2010 - 2014 Bachelor of Science in Physics

PHI BETA KAPPA, SIGMA PI SIGMA, DEANS LIST

Department of Physics Texas Tech University

RESEARCH INTERESTS

The formation and evolution of galaxies and dark matter halos, including:

- · Dark matter halo properties and their relationships
- · The formation and evolution of the Milky Way
- · Machine learning for astronomy

AWARDS

2014 Outstanding Research Talk

Los Alamos National Lab

2014 Mary E. Warga Predoctoral Fellowship

University of Pittsburgh

CONFERENCES AND TALKS

TALKS SDSS-IV Collaboration Meeting - 2020

Great Lakes Cosmology Workshop 12, RIT - 2019

Great Lakes Cosmology Workshop 11, Mc Master University, Hamilton, Ontario Canada – 2016

POSTERS Small Galaxies Cosmic Questions, Durham, United Kingdom - 2019

Dark Matter 2018, Kingston, Ontario Canada – 2018

TRAINING Green Bank Telescope Observer Training Workshop - Fall 2017

ADDITIONAL SKILLS

LARGE COLLABORATIONS SDSS-IV

COMPUTER LANGUAGES Python, IDL, LATEX, Mathematica

OBSERVING WIYN 3.5m telescope, Kitt Peak National Observatory, 1 week of observing for the Sweet Spot Survey

RESEARCH POSITIONS

POST BACCALAUREATE SUMMER RESEARCHER 2014 (FT)

Los Alamos National Lab

Researcher for the Los Alamos Supernova Light Curve Project

I did research on Type 1b and 1c supernovae simulations and spearheaded the development of opacity analysis software.

REFERENCES

Dr. Jeffrey Newman

POSITION Professor

EMPLOYER Department of Physics and Astronomy

University of Pittsburgh

EMAIL janewman@pitt.edu

Dr. Brett Andrews

POSITION Research Faculty

EMPLOYER Department of Physics and Astronomy

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PUBLICATIONS

Fielder, Catherine E., Mao, Yao-Yuan; Newman, Jeffrey A., Zentner, Andrew R., Licquia, Timothy C. (2019). Predictably missing satellites: subhalo abundances in Milky Way-like haloes. *Monthly Notices of the Royal Astronomical Society*, 486(4), 4545-4568.

Author name in bold