

Name: Nestor Mirabal Barrios

Code: 661

Home institution: University of Maryland, Baltimore County

Name of task: Fermi Gamma-Ray Space Telescope/ Fermi Science Support Center (FSSC)

Role in task/ What do you do for CRESST: I work as User Support Scientist in the Fermi Science Support Center (FSSC). The FSSC provides data, software, documentation, and user support for the Fermi mission.

What is your Background:

I grew up in Venezuela and moved to the United States thanks to an undergraduate scholarship to attend the University of Michigan. I then completed a PhD in astronomy at Columbia University. I was named Senior NPP Fellow at the NASA Goddard Space Flight Center in 2014 and have been at Goddard ever since.

Favorite part of being a CRESST Scientist:

One of my roles in the FSSC is overseeing the Fermi Help Desk where we support users with questions about the mission, data and software. Helping other scientists move forward with their groundbreaking research projects and young students in particular is very rewarding.

Highlight of research as a CRESST Scientist:

Some of my recent CRESST research centers on the potential detection of gamma-ray signals from objects called dark matter subhalos using the Fermi Large Area Telescope.

Relevant Publication:

“3FGL Demographics Outside the Galactic Plane using Supervised Machine Learning: Pulsar and Dark Matter Subhalo Interpretations, The Astrophysical Journal, Volume 825, article id. 69”

List of awards won:

Coffee Drinker of the Year – Mid Atlantic Region (2017)

To Contact Nestor to learn more about his work or collaboration, he can be reached at:

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