

Accessing Students at PHaSER Partner Institutions

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Outline

- Accessing students through PHaSER liaisons
- PHaSER Feedback form
- Types of student projects
- Main steps for initiating a new project
- Keys to success: guidance, coordination, inclusivity
- Educational opportunities at CUA
- Q & A

PHaSER

Faculty Liaisons

PHaSER Home > Faculty Liaisons

PHaSER Faculty Liaisons coordinate research and educational activities involving faculty resources in the participation institutions. The liaisons are the first points of contact for finding qualified undergraduate and graduate students interested in conducting heliophysics research beyond summer internships. They provide help with advertising student positions and selecting candidates, preparing budgets for student projects, guiding and directing student projects ensuring their consistent progress and compliance with institutional requirements, and providing a variety of educational resources.

To initiate a student project, contact PHaSER liaisons directly using the links below, or submit our [online feedback form](#).

PHaSER Faculty Liaisons

Code 670: **Vadim Uritsky** (CUA)

Code 671: **Jie Zhang** (GMU)

Code 672: **Jan Merka** (UMBC)

Code 673: **Natalia Buzulukova** (UMCP)

Code 674: **Robert Weigel** (GMU)

Code 675: **Erdal Yigit** (GMU)

Ask PHaSER

Submit a question or a comment for the PHaSER personnel. You don't have to sign in to Google.

uritsky@cua.edu [Switch account](#)

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* Indicates required question

Pick a category *

Student projects

Enter your question *

Your name *

Your answer

Your email *

Your answer

Submit

Clear form

PHaSER Feedback Form



Any PHaSER-related questions, suggestions, comments or requests are welcome

Ask PHaSER

Submit a question or a comment for the PHaSER personnel. You don't have to sign in to Google.

* Indicates required question

Choose

- General
- Visas, badges and IT access
- Budgets and salary appointments
- Travel and procurement
- Student projects

Your name *

Your answer

Your email *

Your answer

Making it happen: a path toward a successful student project

1. Part-time undergraduates vs graduate research assistants
2. Defining the time frame for the project
3. Level of commitment (from a small “seed” project to a PhD project)
4. Budget requirements vs availability
5. Advertising the position (externally & internally)
6. Choosing the faculty advisor
7. Coordinated guidance, milestones and institutional expectations
8. Presentations, publications & proposal writing
9. Meeting the PhD requirements
10. Networking & employment



Michelangelo Romano
(AST, FIELDS AND PARTICLES)



Jason Beedle ✓
University of New Hampshire
Research with NASA's MMS Mission



Yaireska M Collado-Vega
(Project Scientist)



Paul DiMarzio ✓
Electrical Engineer at The Catholic University of America



Emily Mason, PhD
Solar Data Analyst and Modeler at PSI



Ashley D Greeley
(RESEARCH AST, FIELDS AND
PARTICLES)

and many, many others...



Heliophysics education at CUA

ASWR 240 Sun and Earth: Concepts & Connections	ASWR 401 Space Weather System Science	ASWR 402 Space Weather System Science II	ASWR 603 Space Weather System Science III	ASWR 604 Numerical Methods for Space Weather	ASWR 605 Introduction to Magnetometry for Space Weather Research
ASWR 403 Space Weather System Science III	ASWR 404 Numerical Methods for Space Weather	ASWR 405 Introduction to Magnetometry for Space Weather Research	ASWR 628 Space Plasma Physics	ASWR 692 Advanced Readings in Space Sciences	ASWR 694 Independent Study
ASWR 462 Space Weather Seminar	ASWR 492 Directed Readings in Space Weather	ASWR 494 Independent Study in Space Weather	ASWR 696 Master's Thesis Research	ASWR 698A Master's Comprehensive Examination (w/Classes)	ASWR 698B Master's Comprehensive Examination (w/o Classes)
ASWR 562 Space Weather Seminar	ASWR 601 Space Weather System Science	ASWR 602 Space Weather System Science II			



CUA Space Weather Center

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Space Weather Center



The Catholic University Space Weather Center (SWC) is a fully functional research and real-time analyses center dedicated to scientific investigations and forecasting of extreme space weather events - violent physical processes around the Earth driven by storms on the Sun.

Space weather events present a growing hazard to human technologies and society by disrupting satellite communications and navigation systems, damaging power grids, exposing astronauts to a harsh radiation environment, and causing an array of other detrimental effects in space and on the ground. Understanding the physics of such events has become a priority of NASA science programs which welcome contributions from educational institutions. Space weather has gained recent high-level attention, leading to the release of the space weather action plan by the Office of Science and Technology Policy at The White House.

SWC enables scientific investigations of extreme space weather events associated with major solar flares, large coronal mass ejections, solar energetic particle events, and intense geomagnetic perturbations and their ionospheric footprints. Data-driven simulations and an advanced statistical analysis of past events are used to produce experimental space weather forecasts which are disseminated throughout the space weather research community.

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<https://physics.catholic.edu/faculty-and-research/space-weather-lab>