



RESEARCH EXPERIENCES



FOR UNDERGRADUATES AROUND THE WORLD!



APPLY NOW!

If you are interested in participating in the UF IREU program, you should send the following in early Fall:

- (1) An Official Transcript from your school
- (2) Your Curriculum Vitae and a brief statement of your career interests
- (3) Name and contact information of someone willing to write you a recommendation letter (preferably someone you have worked for in a lab)
- (4) A list of projects you find interesting (from the Projects webpage: <http://www.phys.ufl.edu/ireu/projects/index.html>)
- (5) Name of a person who can act as your mentor in your home institution (if it is the person writing you a recommendation letter, just mention this)
- (6) An address to which a check can be securely sent (not a dorm) in Summer
- (7) Information on your international travel status: If you are a US citizen, do you already have, or will you be able and willing to obtain, a US passport? If you are a permanent resident and not a citizen, tell us your nationality and about any restrictions you are aware of for travel to one of our host countries.

Requirements (2)-(7) should be sent to antonis.mytidis@gmail.com. Please ask the person writing your letter to send a paper copy to the address listed below. Alternatively, an email copy may be sent directly to bernard@phys.ufl.edu.

The transcript (requirement #1) and (unless emailed) your recommendation letter must be addressed to:
Gravitational Physics International REU Program
Department of Physics
University of Florida
P.O. Box 118440
Gainesville, FL 32611-8440

Application Deadline

There is no strict deadline for admission. By far the best chance for getting matched to a project is by filing a complete application before Mid-December. We may continue to review applications until all positions are filled.

UNIVERSITY OF FLORIDA
DEPARTMENT OF PHYSICS
[HTTP://WWW.PHYS.UFL.EDU](http://www.phys.ufl.edu)



INTERNATIONAL REU

GRAVITATIONAL PHYSICS



UNIVERSITY OF FLORIDA
DEPARTMENT OF PHYSICS
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JOIN US!

This program, made possible by the National Science Foundation, exposes students to the rigors of gravitational physics research within a setting that truly reflects its international character. For a period of 8-10 weeks during the summer, participants work on research projects in some of the best gravitational physics labs in Australia, France, Germany, Italy, Japan and United Kingdom. During their stay, students also benefit from the valuable cultural enrichment that comes with living and working in a foreign environment. The program is open only to US residents, and we are particularly interested in recruiting women and minority students.

Each year we have a range of over thirty exciting projects lined up at host sites around the world. Visit the Projects and International Hosts pages for further details. Take time to explore the whole site and learn about our program and the application requirements.

We invite you to submit an application and partake of this wonderful opportunity! Be one of the dozen or so students we send each year. Under-represented minorities and students from small schools with limited research resources are especially encouraged to apply.

GRAVITATIONAL WAVE SCIENCE

Gravitational waves, a key prediction of Einstein's theory of general relativity, are generated whenever masses accelerate. In everyday life, however, they are negligibly weak, and to date only indirect evidence of their existence is at hand. For a direct detection, we must look to the heavens, for extremely energetic events involving extremely massive objects. Inspiring black hole and neutron star binaries, collapsing supernovae, and the Big Bang itself are some examples of sources of detectable gravitational waves. With detection will come not only a spectacular confirmation of fundamental physics, but the promise of ushering in an exciting new way to do astronomy.

From rather humble beginnings in the 1960s, gravitational wave science has now matured into an interdisciplinary and international, large-scale venture --- highlighting the demanding challenge of finding these weak signals from space. It enlists tools from optics, quantum measurement, laser physics, materials science, data analysis, astrophysics, and of course, general relativity. Currently, several ground-based gravitational wave observatories are now online all around the world, regularly taking data that will soon lead to our first gravitational wave detection. In addition, NASA and ESA have started a joint project, LISA, to detect gravitational waves in space.



FUNDING & SUPPORT

This is an NSF initiative. Undergraduate participants will receive a \$4,500 stipend, travel health insurance, an allowance for travel to/from Gainesville and their host institution, and for housing, for which we usually arrange to pay directly. Housing will be organized by the host institution. It can be in a student dormitory or a small apartment.

Eligibility: IREU participants must be undergraduate students and must be citizens or legal permanent residents of the United States or its possessions. They will need a passport permitting travel abroad, and may be required to obtain a visa for entry into their foreign host country.

COORDINATORS



GUIDO
MUELLER



BERNARD
WHITING

