

2016 Summer Undergraduate Research Grants in Photonics

Photonics Research Group (GROC)
Universitat Jaume I, Castelló



<http://bit.ly/GROCUJI>



Photonics

Photonics is the **science of the light**. Light plays a central role in our daily lives and light-based technologies provide solutions to global challenges in energy, lighting, communication, environment, and health. Photonics is an essential cross-cutting discipline of basic and applied science in the 21st century... (from *2015 International Year of Light and Light-based Technologies, a global initiative adopted by United Nations*).

GROC at a glance

GROC is the Photonics Research Group at the Universitat Jaume I in Castelló. It is a research group of excellence appointed by the Generalitat Valenciana. The research activities at GROC are organized in two main blocks, **Imaging Science** and **Ultrafast Optics**. GROC actively fosters an open and flexible work environment with a team composed of forward-thinking and enthusiastic researchers. GROC is the **OSA (Optical Society of America) Student Chapter** at the Universitat Jaume I managed by our Ph.D. Students. This Chapter offers many benefits as travel grants, guest lecture resources, networking opportunities and much more (<http://grupodeoptica.com>). Further information in <http://bit.ly/GROCUJI>.

Research Topics

- Stochastic optical sensing
- Diffractive beam shaping



A team of researchers from Spain's Jaume I University (UJI) and the University of Valencia has developed a single-pixel optical system based on compressive sensing that can overcome the fundamental limitations imposed by the scattering and permits to see deeper inside tissue.
Credit: OSA News Release, July 2014

Undergraduate Research Grant Program

We offer **two undergraduate summer grants** to introduce students into the current GROC research activities, fostering contacts between new students and GROC's researchers and graduate students. Frequently the work during the summer stay will naturally follow up to complete the "Trabajo Fin de Grado" or even, in a subsequent stage, to carry out the Master work.

The duration of both summer grants is **6 weeks** to be developed during the months of July to September. The working hours will be fixed by mutual agreement. The total stipend of each fellowship is 525 euros (plus assurance). Applicants are expected to demonstrate creativity and be open-minded to collaborative work and innovation.

Conditions: The grants are open to undergraduate students pursuing a **Physical Engineering, Computer Engineering or Physics Degree**. Eligible candidates must have approved more than 130 ECTS credits at the end of April 2016. You can benefit of this grant only once.

Applications: Pre-registration is open up to the middle of June. To pre-register, please contact **Prof. J. Lancis** to lancis@uji.es (or **Prof. P. Andrés** to pedro.andres@uv.es at the University of Valencia). Expressions of interest should include a curriculum (with a record of the academic scores) and a letter of interest selecting a research topic from the above list or indicating the order of preference. The formal call of these grants is scheduled for the end of June.