

Carol López-Quesada, clopez@cosingo.com

R&D Project Manager at COSINGO-Imagine Optic Spain S.L.

Carol López-Quesada received her B.Sc. in Physics in 2004 and her M.Sc. in Physical Engineering in 2007 both from the University of Barcelona. She has been doing research for five years in the Optical Trapping Lab - Grup de Biofotònica at the Department of Applied Physics and Optics at the University of Barcelona. During this period, she has been involved in different projects. Although initially centered on optical trapping, she has developed an interdisciplinary profile. She started working in optics during her master thesis, which was focused on the application of adaptive optics for the characterization of optical system aberrations. She got familiar with the characterization, design and implementation of optical systems. After that, she worked in the development and the application of different optical tools to study biological problems, especially those related with the intracellular transport in living cells. Her experience also includes a deep knowledge and practice of cell manipulation (mammalian and plant cells) and culture protocols. Her research interests are primarily focused on biophotonics, from the design and implementation of novel optical tools to their applications on the fields of biophysics and biotechnology.

Key dates:

2004/06: Bachelor in Physics at University of Barcelona.

2007/06: Master of Science in Physical engineering at University of Barcelona.

2012/01: R&D Project Manager at COSINGO.

Publications shortlist:

“High-speed tracking of intracellular structures: understanding the transport mechanisms in living plant cells”, C. López-Quesada, M. Joseph, J. Selva, A. Farré, G. Egea, M. D. Ludevid, E. Martín-Badosa, M. Montes-Usategui, Proc. SPIE **8097** (2011).

“Holographic optical manipulation of motor-driven membranous structures in living NG-108 cells”, A. Farré, C. López-Quesada, J. Andilla, E. Martín-Badosa, and M. Montes-Usategui, Opt. Eng. **49**, 085801 (2010).

“Correction of aberration in holographic optical tweezers using a Shack-Hartmann sensor”, C. López-Quesada, J. Andilla, E. Martín-Badosa, and M. Montes-Usategui, Appl. Opt. **48**, 1084-1090 (2009).