

**NANO AND QUANTUM OPTICS  
(NANOFOTONICA y OPTICA CUANTICA)**

**Offer of PhD projects (9):**

Thesis project: *First-principles simulation of plasmon dynamics in metallic nanostructures.*

Supervisor: Pablo García González ([pablo.garciagonzalez@uam.es](mailto:pablo.garciagonzalez@uam.es))

Thesis project: *Theory on quantum optics with polariton condensates.*

Supervisor: Carlos Tejedor ([carlos.tejedor@uam.es](mailto:carlos.tejedor@uam.es))

Thesis project: *Study of chiral phenomena in waveguide quantum electrodynamics.*

Supervisor: Esteban Moreno ([esteban.moreno@uam.es](mailto:esteban.moreno@uam.es))

Thesis project: *Experimental implementation of time- and site-controlled quantum light emitters based on semiconductor nanostructures.*

Supervisors: José Manuel Calleja ([jose.calleja@uam.es](mailto:jose.calleja@uam.es)) and Snezana Lazic ([lazic.snezana@uam.es](mailto:lazic.snezana@uam.es))

Thesis project: *Exciton-Plasmon Strong Coupling in the High Photon Population Regime.*

Supervisor: Antonio Fernández-Domínguez ([a.fernandez-dominguez@uam.es](mailto:a.fernandez-dominguez@uam.es))

Thesis project: *Topological photonics in active media.*

Supervisor: Jorge Bravo Abad ([jorge.bravo@uam.es](mailto:jorge.bravo@uam.es))

Thesis project: *Photonic circuits with polariton condensates in semiconductor microcavities.*

Supervisor: Luis Viña ([luis.vina@uam.es](mailto:luis.vina@uam.es))

Thesis project: *Theory and applications of quantum light as a driving field.*

Supervisor: Fabrice Laussy ([fabrice.laussy@gmail.com](mailto:fabrice.laussy@gmail.com))

Thesis project: *Cooperative mechanics at the nanoscale tailored by light.*

Supervisors: Manuel Marqués ([manuel.marques@uam.es](mailto:manuel.marques@uam.es)) and Juan José Sáenz