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## Research PhD-position in Theoretical Quantum Nanophotonics

The **Theoretical Quantum-Nano Photonics** research group at ICFO, led by **Prof. Dr. Darrick Chang**, is looking for well-qualified, highly motivated and dynamic young graduate students who wish to enhance their scientific career in a friendly, international and stimulating environment within the field of Theoretical Quantum Nanophotonics.

The group offers a number of highly flexible projects, which generally aim to investigate quantum many-body dynamics and propose novel behavior in the interactions between atoms and light. This includes exotic, emerging platforms such as atom arrays, waveguide QED, and atoms coupled to nanophotonic systems. Possible directions include techniques to generate strongly correlated states of light such as crystals of photons, the investigation of topological order induced by light, and the investigation of the growth of quantum correlations or non-equilibrium dynamics in quantum optical systems, inspired by a condensed matter viewpoint.

### Eligibility criteria:

- PhD candidates must hold a Master-equivalent degree in physics

We are open to considering candidates with research background in any field, but a background in theoretical condensed matter physics, many-body physics, or quantum optics is strongly preferred.

### Contact details/applications:

In case of interest, applications should be submitted through our Jobs Opening site <https://jobs.icfo.eu/> although you may contact Prof. Dr. Darrick Chang ([darrick.chang@icfo.eu](mailto:darrick.chang@icfo.eu)) for further details.