



OSCAR QUEVEDO-TERUEL

From Sweden to France



Project: **Electromagnetic Engineering**

Research topic: **Engineering**

Swedish Institution: **KTH**

French Institution: **Sorbonne/CNES/Rennes 1/INSA and Thales Alenia Space**

Dates of mobility: **23/09/2018 to 17/10/2018**

Program: **SFVE-A (ex FRÖ)**



PRESENTATION

[Oscar Quevedo-Teruel](#) is Professor at the Division for Electromagnetic Engineering at the School of Electrical Engineering and Computer Science at [KTH](#). His research works include higher symmetries, transformation optics, lens antennas, metasurfaces, leaky wave antennas, multi-mode microstrip patch antennas, and high impedance surfaces. His expertise focuses on bespoke lenses made of transformation optics and glide symmetric electromagnetic structures. He graduated 2010 with a PhD degree in Telecommunication Engineering from [Carlos III University of Madrid](#).

ACTIVITIES IN FRANCE

Oscar Quevedo-Teruel visited during his stay different organisations in Paris, Toulouse, and Rennes. He started his mobility at Sorbonne University where he met with the Associate Professor [Julien Sarrazin](#). He gave there a presentation entitled “Transformation optics and its applications for lens antennas”.

Moreover, he attended at the [CNES](#) a workshop on “Functional materials for wavefronts control”, where he had discussions with researchers on electromagnetics, including with [Shah Nawaz Burokur](#) from [Université Paris-Nanterre](#).

Oscar Quevedo-Teruel visited also the [University of Rennes 1](#) where he met, among others, with [Mauro Ettore](#) and discussed future funding applications and collaborations in terms of research on electromagnetic devices such as antennas. He gave a presentation entitled "Higher symmetries: a new degree of freedom for the design of periodic structures". He visited then [INSA](#) in Rennes, where he met with [Maria Garcia-Vigueras](#).

Finally, he visited [Thales](#) in Toulouse where he discussed with [Herve Legay](#) and gave a presentation entitled “Lens antennas and cost-effective high frequency circuitry”. He discussed moreover with his colleague a potential application to a Horizon 2020 ITN-ETN.