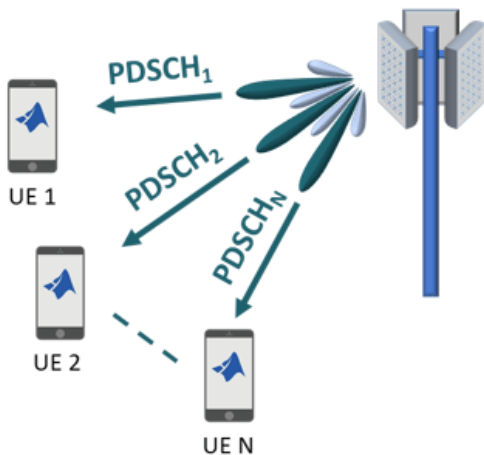


# Model, Analyse and Test **5G** Communication Systems

## Abstract

In this presentation, you will get a brief introduction to 5G Toolbox and you will also learn how to generate 5G wireless waveforms and use them to verify your RF designs, model MU-MIMO communication systems, and customize a 5G stochastic channel model using ray-tracing. The presenters will showcase reference designs including:

- Wireless waveform generation
- Modelling wireless RF Systems
- Reciprocity-based MU-MIMO simulation
- Wireless channel modeling
- Capturing and demodulating real 5G signals using SDR



Come and join us!

Register [here](#)

Wednesday 2<sup>nd</sup> February 2022  
2:00pm - 4:00pm

## Presenters



**Dr. Maria J. Sanchez**



**Dr. Carlos Lopez**

**Software Engineers at MathWorks**

Drs. Maria J. and Carlos are alumni of Heriot-Watt University, Edinburgh. Currently, they develop the LTE, 5G, and WLAN Toolboxes in the Wireless Standards team at MathWorks.

