

Giovanni Capellini is Full Professor of Condensed Matter Physics at the Dept. of Sciences of Roma Tre University since 2018.

He graduated in Physics from the University of Rome La Sapienza (1994) and obtained his Ph.D. in Physics from the University of Rome Tor Vergata (1998). In 2002 he joined Luxtera Inc.- the world leader in integrated nanophotonics (Carlsbad CA, USA)- and the California Institute of Technology in Pasadena (CA, USA) as Visiting Associate Professor. In 2005 he joined the University of Roma Tre as Assistant Professor at the Department of Physics. Among others, he was Senior Visiting Academic at the Atomic Fabrication Facility of the University of New South Wales at (Sydney, Australia 2007-2013) and Visiting Professor at the University of California Los Angeles. (Los Angeles CA, USA, 2022). Since 2012 he is a scientist at the Leibniz Institute Innovations for High Performance Microelectronics (Frankfurt Oder, Germany), where he heads the "Roma Tre- IHP. International Joint-Lab".

His main field of interest is the development of innovative nanostructured materials with potential applications in silicon-based optoelectronics, nanophotonics, and biosensing devices. In particular, he is interested in the morphological, structural and electronic properties of nanometric heterostructures based on germanium, silicon and tin.

Giovanni Capellini is co-author of more than 250 scientific publications in international journals and international patents, and he has presented his work in more than 70 conference talks. He has co-organized several international conferences, such as the "International Conference on Silicon Epitaxy and Heterostructures/ International SiGe Technology and device meeting", the "International SiGe, Ge, & Related Compounds Symposium at the Electrochemical Society Meeting", and the "European Material Research Society Fall Meeting".

He was awarded the "2011 W. Mehr IHP-Leibniz Award" and the "2022 Boelter Chair in Engineering" by the University of California Los Angeles.