

CV Profile

1 *Nathalie Marcela Cerón Hurtado*

Research interests

The broad objective of my research agenda is to contribute to the development of multidisciplinary projects based on the potential of technological transfer.

My research interests include:

- Data analysis and visualization,
- Sensor design and simulation for biomedical applications and biomonitoring,
- Innovative applications in health/wellness
- Passive-RF for wireless communication systems,
- Gas sensors and materials for gas storage (oxides and Intermetallic compounds)

Education

Ph.D. in Microelectronics and Electronic Systems (08/02/2013 - 05/09/2017)

MSc. In Micro and Nanoelectronics Engineering (02/10/2011- 21/09/2012)

MSc. in Engineering (25/07/2008- 18/11/2010)

BSc. in Engineering Physics (11/11/2001 - 12/11/2007)

Experience

- **Research member** (February 2019 to September 2020): Data and Signal Processing (TDS) Group, Universitat de Vic, Universitat Central de Catalunya (Spain). Field: Data and Signal Processing and Analysis

- **Associate Lecturer**

> *Universitat de Vic (February 2018 to September 2020)*. Biomedical Instrumentation and Biomaterials

> *Universitat Autònoma de Barcelona (September 2018 to August 2020)*: Physics for life sciences and Matter structure and Thermodynamics.

> *Universitat Pompeu Fabra (April to May 2019 and 2020)*: Biomaterials - Metals and Composites.

- **Research Stay** (February to May 2017): Instituto de Telecomunicações (IT)/ Universidade de Aveiro (Portugal). Field: Analytical and Theoretical studies of Wireless Communication Systems.

- **Research Fellow** (October 2015 to March 2016): Universitat Autònoma de Barcelona (Spain). Field: Interdigitated Capacitive Sensors for Biomedical Applications

- **Trainee Research Staff (PIF)** (October 2011 to September 2015): Biomonitoring Group (GBIO), Centro de Investigación Biomédica en Red, Bioingeniería, Biomateriales y Nanomedicina (CIBER-BBN) – Spain. Field: Flexible and Zero Power Sensors for Biomedical Application

- **Research Stay** (May to August 2015): University of Alberta (Canada). Field: RF, Electronic Systems for biomedical and environmental applications
- **Lab Instructor** (March 2011 to May 2015): Universitat Autònoma de Barcelona (Spain). Subjects: Electronic Systems and Applications, Fundamentals of Computers, and Digital Systems and Hardware Description Languages.
- **Research Fellow** (June 2008 to December 2010): Comisión Nacional de Energía Atómica (Argentina). Field: Intermetallics AB5 type for hydrogen compression.
- **Internship Research** (February 2008): RA6 Research Reactor, Centro Atómico Bariloche (Argentina). Project: Development of a system for pressure drop measuring in core of RA6 nuclear reactor.
- **Internship Research** (May to July 2007): LIEC, Laboratório Interdisciplinar de Eletroquímica e Cerâmica. Universidade de São Paulo "Julio de Mesquita Filho" (Brazil). Field: Characterization of ceramics powders and thick films based on SnO₂-TiO₂ system to applications in gas sensors.

Contact information

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