

GONZALO VAZQUEZ VILAR

MS PHD IN ELECTRICAL ENGINEERING

EXPERIENCE

- 10/10 – 12/10 **Cambridge University, Cambridge (UK)**
- Research in finite length source channel coding, in both point-to-point and MAC channels.
- 07/08 – 08/08 **Stanford University, Stanford (USA)**
- Research in interference management.
 - Outdoor to Indoor Measurement Campaign with a MIMO RUSK Channel Sounder.
- 09/06 – 08/07 **University of Vigo, Vigo (Spain)**
09/05 – 10/05
- Study of MIMO gapfiller systems for DVB-T digital television signals. Design and implementation of measurement instrumentation in a FPGA for OFDM signals.
 - Teaching Assistantship of “Signal Processing in Communications” and “Digital Transmission”.
 - Development of embedded systems for noise cancellation and wireless communications.
- 11/05 – 09/06 **Siemens AG, Saarbruecken (Germany)**
- Design and construction of a 20MW photovoltaic power plant.

EDUCATION

- 2006 – 2011 **University of Vigo, Vigo (Spain)**
- Ph.D. Degree in Signal Processing. June 2011.
- 2007 – 2008 **Stanford University, Stanford (USA)**
- M.S. Degree in Electrical Engineering.
- 2004 – 2005 **University of Applied Sciences of Saarland, Saarbruecken (Germany)**
- Socrates Exchange Program focused on electronics. Officially recognized at the University of Vigo.
- 1999 – 2004 **University of Vigo, Vigo (Spain)**
- Five years program in Telecommunications Engineering. Equivalent to BS+Master
 - Highest GPA among 2004 graduates.

SELECTED PUBLICATIONS

- [1] Josep Sala, Gonzalo Vazquez-Vilar, and Roberto López-Valcarce. Multiantenna glr detection in unknown spatially correlated noise using a priori spectral information. *Signal Processing, IEEE Transactions on*, 2011. In review.
- [2] Gonzalo Vazquez-Vilar, Roberto López-Valcarce, and Josep Sala. Multiantenna spectrum sensing exploiting spectral a priori information. *Wireless Communications, IEEE Transactions on*, 2011. In review.
- [3] Gonzalo Vazquez-Vilar and Roberto López-Valcarce. Spectrum sensing exploiting guard bands and weak channels. *Signal Processing, IEEE Transactions on*, 2011. Accepted for publication.
- [4] David Ramírez, Gonzalo Vazquez-Vilar, Roberto López-Valcarce, Javier Vía, and Ignacio Santamaría. Detection of rank- P signals in cognitive radio networks with uncalibrated multiple antennas. *Signal Processing, IEEE Transactions on*, 2011. In press.
- [5] Gonzalo Vazquez-Vilar, Carlos Mosquera, and Sudharman K. Jayaweera. Primary user enters the game: Performance of dynamic spectrum leasing in cognitive radio networks. *Wireless Communications, IEEE Transactions on*, 9(12), 3625, 2010.
- [6] Sudharman K. Jayaweera, Gonzalo Vazquez-Vilar, and Carlos Mosquera. Dynamic spectrum leasing (DSL): A new paradigm for spectrum sharing in cognitive radio networks. *Vehicular Technology, IEEE Transactions on*, 59(5), 2328, 2010.

LANGUAGE SKILLS

ENGLISH	Upper intermediate level.
GERMAN	Upper intermediate level.
SPANISH	Mother tongue.

TECHNICAL SKILLS

ELECTRONICS	Digital design in VHDL (FPGAs)
PROGRAMMING	Java, C, C++, Matlab... Internet technologies: HTML, PHP, JSP, XML/XSL.
OTHER	Signal processing, photovoltaic technology.

INTERESTS

Adventure sports, photography and meeting friends.

Vigo. July 10th, 2011