

## CURRICULUM VITAE OF RAQUEL CRUZ DA CONCEIÇÃO

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### • SUMMARY

Award winning post-doctoral researcher with a significant record of peer-reviewed publications and funded grants. I currently am a Post-Doctoral researcher at the Institute of Biomedical Engineering at the University of Oxford, UK, and Invited Assistant Professor at the University of Lisbon, Portugal, developing microwave imaging techniques to detect and classify breast cancer. I am the chair for COST Action TD1301 (Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging). I hold a Ph.D. in Electrical and Electronic Engineering (2011), and an Integrated Master in Biomedical Engineering (2007), from the National University of Ireland Galway (NUIG) and Faculdade de Ciências e Tecnologia – Universidade Nova de Lisboa (FCTUNL), respectively.

As well as all these interests and achievements, dance, music and sport have been a huge part of my life.

### • EDUCATION

- 2011 PhD in Electrical & Electronic Engineering – Electrical & Electronic Engineering, College of Engineering and Informatics, National University of Ireland – Galway (NUIG), Ireland
- 2007 MSc in Biomedical Engineering – Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, FCTUNL (Faculty of Science and Technology, New University of Lisbon), Portugal

### • CURRENT POSITIONS

- 2012 – Post-Doctoral Researcher/Investigator – Instituto de Biofísica e Engenharia Biomédica, IBEB (Institute of Biophysics and Biomedical Engineering), FCUL, Portugal
- 2013 – Chair of COST Action TD1301: Development of a Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging
- 2013 – Invited Assistant Professor – Faculdade de Ciências, Universidade de Lisboa, FCUL (Faculty of Science, University of Lisbon), Portugal: lecturer, and MSc and PhD students' supervisor

### • PREVIOUS POSITIONS

- 2014 Post-Doctoral Researcher – Institute of Biomedical Engineering, University of Oxford, UK: researcher in the project *Medical Imaging and Image Analysis: Hybrid UWB Radar/Inverse Scattering for Breast Cancer Imaging* in close collaboration with the University of Bristol
- 2012 – 2014 Post-Doctoral Researcher/Investigator – Instituto de Biofísica e Engenharia Biomédica, IBEB (Institute of Biophysics and Biomedical Engineering), FCUL, Portugal
- 2011 – 2011 Automation and Control Engineer in the automotive industry – IASYS, Portugal
- 2007 – 2010 Teaching Assistant – Electrical & Electronic Engineering, College of Engineering and Informatics, NUIG, Ireland
- 2006 – 2007 Teaching Assistant – Research Technician – Departamento de Física (Department of Physics), FCTUNL, Portugal
- 2005 – 2006 Lecturer – Departamento de Engenharia Electrotécnica (Department of Electronic Engineering), FCTUNL, Portugal

### • FELLOWSHIPS

- 2013 – Intra-European Fellowship, Marie Curie 7<sup>th</sup> FP, 301269, FCUL, Portugal
- 2012 – 2012 Post-doctoral scholarship, funded by Fundação para a Ciência e a Tecnologia (Foundation for Science and Technology), SFRH/BPD/79735/2011, FCUL, Portugal
- 2007 – 2010 PhD scholarship, Science Foundation Ireland, “The Development of Ultra Wide Band (UWB) Scanning Techniques for Early Detection of Cancer”, 07/RFP/ENEF420, NUIG, Ireland
- 2005 – 2006 Erasmus scholarship, Universidade Nova de Lisboa (New University of Lisbon), Portugal

• **PRIZES AND AWARDS**

- 2015 Students, Young Researchers and Innovators - ICT 2015 award to attend the ICT 2015 Innovate, Connect, Transform event, Lisbon, Portugal
- 2014 Young Scientist Award 2014, awarded at the 31<sup>st</sup> URSI General Assembly and Scientific Symposium (GASS), Beijing, China
- 2014 Marie Curie Alumni Association (MCAA) Micro Travel Grant 2014 to attend the 8<sup>th</sup> European Conference on Antennas and Propagation (EuCAP), The Hague, The Netherlands, April 2014
- 2013 Prize ANACOM - URSI Portugal for the best scientific work in the area of radioelectricity, Portugal
- 2013 NSS/MIC/RTSD 2013 Trainee Award for IEEE Medical Imaging Conference, South Korea
- 2013 Best paper award at the 8<sup>th</sup> International Conference on Systems (ICONS), Spain
- 2012 NSS/MIC/RTSD 2012 Trainee Award for IEEE Medical Imaging Conference, USA
- 2010 Best presentation with Economical Potential at Research Day for College of Engineering, NUIG, Ireland
- 2008 2<sup>nd</sup> best poster at Research Day for College of Engineering, NUIG, Ireland

• **COMMISSIONS OF TRUST**

- 2013 – Associate Editor for the journal Medical Physics
- 2013 – Scientific Evaluator for: COST Actions
- 2012 – Co-responsible for the research area “Multimodal Imaging Techniques” at IBEB, FCUL, Portugal
- 2009 – Reviewer for 8 journal papers and 4 peer-reviewed conferences

• **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

- 2012 – Institute of Electrical and Electronics Engineers (IEEE) member, 92364987

• **LANGUAGES**

Portuguese – Mother tongue; English – Proficiency user (C2); Spanish – Proficiency user (C1); French – Independent user (B2); German – Basic user (A1)

• **HARD SKILLS**

Very good knowledge: Machine Learning algorithms, programming languages for Matlab, Windows Operating Systems, Microsoft Office tools such as Word, Excel, PowerPoint and Visio

Good knowledge: GATE (Geant4 Application of Tomographic Emission) for Monte Carlo simulation, HTML, C/C++, Fortran, Assembly, Visual Basic and language for LaTeX, Linux Operating System

Basic knowledge: IDL, Python, image processing with Paint Shop Pro 8, Image Pro-Plus 6, DicomWorks and ISeg

• **SOFT SKILLS**

Teamwork skills gained through writing/applying for multidisciplinary grants with several international researchers, and group research (collaborated/co-authored with up to 43 international researchers)

Good communication and organisational skills gained through my experience as lecturer, expert speaker, project management experience, as well as writing and reviewing for grants, peer-reviewed journal and conference papers, and applying for several individual and group research grants

Self-focused, goal-oriented and very rigorous researcher, which is reflected on the fact that my Ph.D. duration was only 3 years and also on the record of publications and awarded funding schemes

Good ability to adapt to multicultural environments gained through several academic experiences abroad, number of foreign languages spoken, volunteering abroad and travelling

• **ARTISTIC SKILLS AND COMPETENCES**

Tango dancing from 2008 until present; started Salsa dancing in 2015

Sports including swimming (1997-2009, 2013), hip-hop dance (2006-2009), Display Gymnastics (1996-2004), Rhythmic Gymnastics Competition (1991-1996)

Music lessons including classical guitar (2003-2005) and flute (1993-1995)