

Jose M. Rivera-Rubio

Curriculum Vitae

Education

- 2011–Present **Ph.D. candidate in Bioengineering, Imperial College London.**
Supervisor: Dr. Anil A. Bharath
- 2010–2011 **MSc Biomedical Bioengineering, Imperial College London,** Overall mark of 71% awarded the top mark (A) in 7/11 subjects.
Dissertation: Features for the visual biopsy of polyps
Awarded 'A' mark and accomplished in collaboration with medical image processing company Medicsight and NHS expert colonoscopists. This thesis applied image processing and computer vision techniques to endoscopic images, with the purpose of improving the characterisation and classification of large bowel polyps in real-time during colonoscopy. I've improved the classification accuracy by 2-5% by adding four new features to the existing five. I also designed and implemented different approaches to narrow the margin of classification error by producing measurements of feature stability such as feature variability across the surface of polyps.
Supervisor: Dr. Anil A. Bharath
- 2003–2009 **MEng Telecommunications Engineering, University of Seville, Spain, 1st class.** Specialised in Signal Processing and Radiocommunications.
Dissertation: IP Multimedia Subsystem (IMS), the network convergence enabler
Awarded with 1st class with honours (10/10) in July 2009. Developed and tested IMS service deployment. Conducted a study of IMS future viability. Project accomplished whilst working within the Minerva Project. Built foundations for three scientific articles.
Supervisor: Dr. Alejandro Carballar *Examiners:* Dr. Antonio Estepa, Dr. Rafael Bachiller
- 2009 **Mobile Communications Expert Course — Technologies and Mobile Applications: GPRS/UMTS,** University of Seville and Vodafone Spain Foundation, Researched on IP Multimedia Subsystem. Developed and simulated Java code for IMS service deployment on Ericsson SDS simulator.

Research Positions

- October 2011 **PhD student, Imperial College London,** Dr. Anil A. Bharath.
– Present Designed core algorithms for sparse representation of visual and sensory input. SHORT dataset, WiFi + INS project

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Publications

Refereed conference papers

References

- [1] Jose Rivera-Rubio et al. "Mobile Visual Assistive Apps : Benchmarks of Vision Algorithm Performance". In: *Lecture Notes in Computer Science (in Press)*. 2013. Springer-Verlag, 2013.

Other Publications

References

- [1] Jose Rivera-Rubio (translator). *The peculiar memories of Thomas Penman*. By Bruce Robinson. Ed. by Miguel Lazaro Garcia and Jose Miguel Pomares. 1st ed. Barcelona: Cabaret Voltaire, 2010.

Awards

- 2011–2014 **Imperial College London Department of Bioengineering PhD studentship**, *Awarded one of three studentships among more than 120 candidates.*
- 2011 **'La Caixa' Foundation: Welfare projects 2011 – International Grants**, *Selected for an interview on the 25th May 2011 to obtain a studentship for a PhD in Bioengineering Research at Imperial College. Shortlisted within the best 70 candidates among 19000+ applicants to compete for 25 grants. Could not attend the interview due to Imperial College exam clash.*
- 2007–2008 **SICUE/SENECA Scholarship**, *Scholarship and bursary to spend my MEng 5th and final year in Carlos III University of Madrid, Spanish top university in Computing.*
- 2003 **Andalousian Regional Government – Best performance award**, *Awarded with a best performance prize at college level and granted funding of first year tuition fees at University.*

Computer skills

- Basic JAVA, Adobe Illustrator
- Intermediate PYTHON, HTML, \LaTeX , OpenOffice, Linux, Microsoft Windows
- Advanced Computer Hardware and Support

Communication Skills

- 2010 Oral Presentation at the California Business Conference
- 2009 Poster at the Annual Business Conference in Oregon

Languages

- English **Mothertongue**
- Spanish **Intermediate** *Conversationally fluent*
- Dutch **Basic** *Basic words and phrases only*




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Interests

- Piano
- Cooking
- Running
- Chess
- Dancing

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