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	National Institute of Informatics, 2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8430, Japan
	22 <sup>nd</sup> February 1983

## EDUCATION

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- Pre-doctorate grant holder. 2017
  - National Institute of Informatics. Tokyo, Japan.
  - Identification of specific object in video and image.
- Ph.D. Candidate. 2014.
  - Instituto Universitario de Matemática Multidisciplinar (IMM), Universitat Politècnica, Valencia, Spain.
  - Thesis: Building Life Sexual Partners Networks. Application in Studying the Transmission of the Human Papillomavirus (HPV). <http://isp.imm.upv.es/index.html>
- Master of Engineering (M.Eng.) in Engineering of Systems and Control. 2012-2014.
  - University UNED.
  - Best marks: Sensors and Actuators, Instrumentation and Control, Artificial Vision.
  - Final dissertation: Random Networks, Transmission Dynamics of the Meningococcal C.
- Master of Engineering (M.Eng.) in Computer Science. 2005-2008.
  - University Carlos III, Madrid, Spain.
  - Best Marks: Data Base Advanced Design, Computing Systems, Information Engineering.
- Technical Engineering degree in Computer Systems (B.Sc. CS). 2001-2005.
  - University Complutense, Madrid, Spain.

## EMPLOYMENT

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- December 2011: INDRA SYSTEMS Eurofighter Programme. <http://www.indracompany.com/en>.
  - Development engineer for avionics embedded systems.
  - Real time software (Integrity RTOS) development for Eurofighter Programme, documentation following military standards: MIL-STD-498, DOD-STD-2167A, Eurofighter EF SYSTEMS AND SOFTWARE DEVELOPMENT STANDARDS, CAPTOR-E Consortium Engineering Plan.
  - Traceability of requirements through tools (IBM DOORS, IBM Gateway) and design for the aircraft Eurofighter.
- March 2010-December 2011: INDRA SYSTEMS Outsourcing department. Spain.
  - Junior developer.
  - CRM Microsoft Dynamics developer over .Net platform.
- October 2008 - December 2009: IDFA-DAFIL [http://www.dafil.ie/about\\_us.html](http://www.dafil.ie/about_us.html). Ireland.
  - Software developer.
  - Power Basic.
  - Transactional billing and security print (ISO 9000, ISO 27001).

## SKILLS

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- Python: Machine Learning, Deep Learning (Keras, Tensorflow, OpenCV)
- Java, C++.
- ADA95 (Integrity RTOS, embedded avionics SW), IBM Rhapsody, DOORS, Gateway (Design requirements, traceability, top-level design).
- Mathematica, Matlab.
- \*Nix systems and Bash scripting.

## LANGUAGES

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- English: Level C1 CAE Cambridge University. Fluent level both written and spoken.
  - This has been achieved through a 18 months living and working experience in Dublin (Ireland).
- Basic Japanese.

## ARTICLES

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- Javier Díez-Domingo, Víctor Sánchez-Alonso, Rafael-J Villanueva, Luis Acedo, José-Antonio Moraño, Javier Villanueva-Oller. Random Network Models to Predict the Long-Term Impact of HPV Vaccination on Genital Warts, Viruses, Multidisciplinary Digital Publishing Institute, October 2017.
- L. Acedo, C. Burgos, J.I. Hidalgo, V. Sanchez-Alonso, J. Villanueva-Oller and R.-J. Villanueva, Calibrating a large network model describing the transmission dynamics of the human Papillomavirus (HPV) using a Particle Swarm Optimization (PSO) algorithm in a distributed computing environment, The International Journal of High Performance Computing Applications, SAGE Publications, April 2017.

## BOOK CHAPTERS

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- L. Acedo, R. Martí, F. Palmi, V. Sanchez-Alonso, F.J. Santonja, R.J.Villanueva, J. Villanueva-Oller, Building lifetime heterosexual partner networks. In L. Jodar L, E. de la Poza and L. Acedo (eds.) Modeling human behavior. Individuals and organizations, chapter 19. Nova publishers, December 2016. pp. 235–251. ISBN: 978-1-53610-197-3.
- R. J. Villanueva, V. Sanchez-Alonso, L. Acedo, J. A. Moraño, J. Diez-Domingo, HPV transmission and control in lifetime sexual partner networks. In L Jodar, J.C. Cortes and L. Acedo (eds.) Modelling for Engineering & Human Behaviour, chapter 1. July 2016. pp. 1-6. ISBN: 978-84-617-7205-6.

## COMMUNICATIONS IN CONGRESS

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- J. Diez-Domingo, L. Acedo, R. Marti, F. Palmi, V. Sanchez-Alonso, F. Santonja, R.J. Villanueva, J. Villanueva-Oller, Las enfermedades de transmisión sexual: Diseño de redes de contactos sexuales (The sexual transmitted diseases: Design of sexual partners network), 8º Congress of the Spanish Association of Vaccinology, Córdoba, Spain. November 2015.

## TEACHING

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- October 2014-June 2016: English teacher in academy. Madrid, Spain.
  - Elementary and high school.
  - Conversation lesson with adults.
- October 2014: Programming lessons for college students at home (Java, C++, Javascript).

## ADDITIONAL INFORMATION

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- Driving license.
- Easy going person, quick learner, proactive and enthusiastic, I do my best for my team work.
- Raspberry Pi 3, cooking, Crossfit.

## REFEREES

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- Dr. Javier Villanueva Oller, Expert in Systems and aero portable vehicles. Madrid (Spain).
  - 📞 : 🇪🇸 +34 91 894 8942
  - ✉️ : jvillanueva@indra.es
- Dr. Rafael Jacinto Villanueva MicÓ, Full Professor. Dept. of Applied Mathematics. Valencia (Spain).
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