

Jose Javier Gonzalez

Education

- 2015–2016 **University of Michigan, Ann Arbor**, *Computer Engineering - Exchange*, 3.94/4.00.
- Introduction to Machine Learning
 - Cryptography and Network Security – Elliptic Curve Cryptosystem
 - Parallel Computing – Parallel Implementation of Interdependent Lindenmayer Systems
 - Information Retrieval - Diagnostic Classification of Prevalent Cardiovascular Diseases
- 2012–2016 **Universidad Pontificia Comillas**, *Bachelor in Telematics Engineering*, Madrid, 9.95/10 – Dean's list – 1st of my major.
- **Bachelor Thesis** – A Simple Power Attack in the TwoFish Key Schedule
 - Microprocessors – Three dimensional 8x8x8 Cube LED Display
 - Operations Research – Optimal Placement of Cellular Communication Antennas

Work Experience

- 2016 **Research Assistant**, *University of Michigan*, Ann Arbor, MI, USA.
- Part of the *Machine Learning for Data Driven Decisions Laboratory*
 - Developed a Heart Sound Classification algorithm based on Temporal Alignment Techniques and MFCC frequency analysis, achieving a 82.4% accuracy in the hidden data.
 - Worked in the Physionet Challenge 2016 for the *Computing in Cardiology Conference* and went to Vancouver to present the research.
- 2014–2015 **Research Assistant**, *Institute for Research in Technology*, Madrid, Spain.
- Development of applications with Google Glass using Android, Java and the Mirror API.
 - Design of a QR-Based system for people with different disabilities using Google Glass as a platform to interact. The system achieved a 87% precision capturing gestures.
 - The application is now being used by children with special needs at a Spanish institution.
- 2014 **Software Engineer**, *Extreme Networks*, New Hampshire, USA.
- Service Architecture Development member, responsible for 2 firewall projects.
 - Integration of several third-party modules to the *NetSight* network monitor using Java.
 - Production software filters for the Paloalto Firewall, reducing unwanted requests by 68%.
- 2013 **Intern**, *Enterasys*, Newbury, United Kingdom.
- Introduction to computer networks and distributed systems.
 - Lab experience for the Data Link and Network layers.

Research

- 2016 **Heart Sound Classification based on Temporal Alignment Techniques**.
Jose Javier Gonzalez, Cheng Perng Phoo, Jenna Wiens, *Computing in Cardiology 2016*
- 2016 **A Simple Power Attack in the TwoFish Key Schedule**, *arXiv:1611.07109*.
Jose Javier Gonzalez Ortiz, Kevin J. Compton – To be submitted at CHES2017

Awards

- 2016 **Award for Excellence in the Bachelor's Degree**, *Universidad Pontificia Comillas*.

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- 2012–2016 **Excellence Scholarship**, *County of Madrid*, Awarded 4 years.
- 2015–2016 **University Honors**, *University of Michigan*.
- 2013 **IMC 2013** , Bronze Medal.
International Mathematics Competition (Blagoevgrad, Bulgaria)
- 2012 **OEF 2012** , Honorific Mention.
Spanish Physics Olympiad

Languages

Spanish	Native	German	A2 Basic
English	C1 Proficient - TOEFL 110/120	French	A2 Basic

Technical Skills

Advanced	C, Python, Java, \LaTeX , MATLAB, sklearn
Intermediate	C++, Git, Bash, Verilog, Assembly, PBS, Linux/UNIX, SQL, Excel
Basic	Haskell, R, Tensorflow, Javascript, GAMS, Spice, PBS

Diplomas

- 2012–Present **Massive Online Open Courses**, *edX, Coursera*.
- Neural Networks for Machine Learning, *University of Toronto*
 - Computation Structures, *MIT*
 - Algorithms: Design and Analysis, *Stanford*
 - Cryptography I, *Stanford*
 - Introduction to functional programming, *TU Delft*
 - Circuits & Electronics, *MIT*
 - Autonomous Navigation for Flying Robots, *TUM*
 - Quantum Mechanics and Quantum Computation, *UC Berkeley*
- 2012–2016 **Diploma in Professional Skills**, *Universidad Pontificia Comillas*.
Diploma covering topics in public speaking, teamwork, and effective technical communication

Activities

- Data Science Member of **Michigan Data Science Team**, a student association that competes against data scientists from around the world in online prediction challenges.
- Open Source Ex-President **Comillas Linux Association**
- Robotics Member of the **Aerospace Robot Club Aerobot**