

Jose Javier Gonzalez Ortiz

Curriculum Vitae

Massachusetts Institute of Technology,
Computer Science and Artificial Intelligence Laboratory

josejg.com
josejg@mit.edu

EDUCATION

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| Massachusetts Institute of Technology | 2017-Present |
| Ph.D. Electrical Engineering and Computer Science Advisor: John Guttag | |
| Massachusetts Institute of Technology | 2017-2019 |
| M.Sc. Electrical Engineering and Computer Science (GPA: 5.00/5.00) Thesis: Learning from Few Subjects with Large Amounts of Voice Monitoring Data Courses: Machine Learning, Computer Vision, Distributed Systems, Computer Systems Security | |
| Universidad Pontificia Comillas | 2012-2016 |
| B.Sc. Telematics Engineering, (GPA: 9.95/10.00, <i>Summa Cum Laude</i>) Thesis: A Simple Power Analysis Attack on the TwoFish Key Schedule | |
| University of Michigan, Ann Arbor | 2015-2016 |
| Exchange program in Computer Science (GPA: 3.94/4.00) Key Courses: Cryptography, Parallel Computing, Entrepreneurship, Information Retrieval | |

RESEARCH AND WORK EXPERIENCE

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| CERN Openlab, Geneva , Software Engineering Intern | 2017 |
| Developed C++ software to store and access genomic data using ROOT big data framework. | |
| University of Michigan, Ann Arbor , Research Assistant | 2016 |
| Developed a machine learning model based on temporal alignment techniques for the Physionet Challenge. | |
| Institute for Research in Technology, Madrid , Research Assistant | 2014-2015 |
| Development of applications with Google Glass for people with motor disabilities. | |
| Extreme Networks, New Hampshire , Software Engineering Intern | 2014 |
| Integrated several third-party modules into the NetSight network monitor. | |

PUBLICATIONS

(*) equal contribution

CONFERENCES AND PEER REVIEWED WORKSHOPS

Jose Javier Gonzalez Ortiz*, Davis Blalock*, Jonatham Frankle, and John Guttag
“What is the State of Neural Network Pruning?”
Third Conference on Machine Learning and Systems (2020).

Jose Javier Gonzalez Ortiz, Davis Blalock, and John Guttag
“Standardizing Evaluation of Neural Network Pruning”
AI Systems Workshop at SOSP 2019 (2019).

Jose Javier Gonzalez Ortiz, Daryush D Mehta, Jarrad H Van Stan, Robert Hillman, John V Guttag, and Marzyeh Ghassemi
“Learning from Few Subjects with Large Amounts of Voice Monitoring Data”
2019 Machine Learning for Healthcare Conference (2019).

Ava Soleimany, Harini Suresh, **Jose Javier Gonzalez Ortiz**, Divya Shanmugam, Nil Gural, John Guttag, and Sangeeta Bhatia

“Image Segmentation of Liver Stage Malaria Infection”

ICML 2019 Workshop on Computational Biology. 2019.

Jose Javier Gonzalez Ortiz, Cheng Perng Phoo, and Jenna Wiens

“Heart Sound Classification based on Temporal Alignment Techniques”

2016 Computing in Cardiology Conference (CinC). IEEE. 2016, pp. 589–592.

THESES

Jose Javier Gonzalez Ortiz

“Learning from Few Subjects with Large Amounts of Voice Monitoring Data”

S.M. Thesis. Massachusetts Institute of Technology, June 2019.

Jose Javier Gonzalez Ortiz

“A simple power analysis attack on the TwoFish key schedule”

Bachelor Thesis. Universidad Pontificia Comillas ICAI, July 2016.

AWARDS

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| Qualcomm Innovation Fellowship | 2018 |
| la Caixa Foundation Fellowship | 2017 |
| Fulbright Scholarship (<i>declined in favor of la Caixa</i>) | 2017 |
| Undergraduate Excellence Award U.P.Comillas ICAI | 2016 |
| Excellence Scholarship for County of Madrid | 2012-2016 |
| International Mathematics Competition, Bronze Medal | 2013 |
| Spanish Physics Olympiad, Honoric Mention | 2012 |

ACADEMIC SERVICE

TEACHING

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| Co-organizer, instructor , The Missing Semester of Your CS Education, MIT | 2020 |
| Co-organizer, instructor , 6.HT: Hacker Tools, MIT | 2019 |
| Teaching Assistant , 6.S191: Introduction to Deep Learning, MIT | 2018 |

SKILLS

Languages: Spanish (native), English (fluent)

Machine Learning: PyTorch, TensorFlow, Keras, sklearn

Python: NumPy, SciPy, Pandas, OpenCV

Software: Python, Go, C, Java, SQL

Misc: Assembly, Verilog, Coq, HTML/CSS/JS