Xaime Rivas Rey | RÉSUMÉ

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Education

Drexel University, Philadelphia
Ph.D. in Electrical Engineering, focus on Cognitive Radios, Data Science and Machine Learning.   *2016 → present*
Advisor: Dr. Kapil Dandekar

Drexel University, Philadelphia
Master of Science in Electrical Engineering. GPA 3.79/4, EAGLES Scholarship.   *2015–2016*

Polytechnic University of Madrid
Master of Science in Industrial Engineering with a major in Electrical Engineering.   *2014–2016*
Dual degree exchange program with Drexel University. GPA 8.93/10.

Superior Polytechnic School of Ferrol
*Bachelor Degree in Industrial Technology Engineering, **Valedictorian** - 9.27 out of 10*   *2010–2014*
Academic Award for Excellence at University. University of A Coruña.

Work experience

DREXEL UNIVERSITY   **Philadelphia, PA**
Teaching Assistant - Helped develop materials for multiple courses. Taught recitations and lab sections.   *2016–2018*
2017 & 2018 Best Teaching Assistant Excellence Award winner.

CITEEC   **A Coruña, Spain**
Center for Technological Innovation in Building and Civil Engineering   *2013–2014*
4 months of full time internship. Developed open source data collection device for wave energy analysis.

Skills

Programming Languages: MATLAB, R, C/C++, Python, Java, HTML, CSS and Javascript.

Databases: MySQL and MongoDB.

Tools: Git, Bash, LATEX and Microsoft Office.

Engineering: GRCompanion, ExtendSim, FlexSim, ANSYS, SolidWorks and Solid Edge.

Languages: Native Spanish, fluent English and working proficiency in Portuguese.

Relevant Coursework

Coursera: Neural Networks and Deep Learning by deeplearning.ai. Certificate earned May 15, 2019

Drexel University: Artificial Intelligence, Data Science using R, Pattern Recognition, Machine Learning, Cognitive Radios, Digital Signal Processing and Collaborative Intelligent Radio Networks.

Publications

Cybersecurity Analysis of an 802.15.4 Wireless SN for Smart Grid Power Monitoring on a Ship
Xaime Rivas Rey, Thomas Halpin, Shantanu Hadgekar, Dr. Karen Miu, Dr. Kapil R. Dandekar   *October 2018*
Naval Engineers Journal (NEJ).

Impact of Reconfigurable Antennas on MU-MIMO over measurements in Reverberation Chamber
Simon Begashaw, Xaime Rivas Rey, Kapil R. Dandekar   *August 2018*
IEEE Vehicular Technology Conference (VTC)

Enhanced 5G spectrum sharing using new adaptive NC-OFDM waveform with reconfig antennas
Alex Lackpour, Chase Hamilton, Marko Jacovic, Ilhaan Rasheed, Xaime Rivas Rey, Kapil R. Dandekar   *September 2017*
IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN)

Organizations

IEEE-Eta Kappa Nu honor society (HKN)   **Spring 2016**

Patents

Beam Visualization and STEM Education using Augmented Reality   **62/403,415**
Kapil Dandekar, Cem Sahin, Logan Henderson, Danh Nguyen, James Chacko and Xaime Rivas Rey   *Oct 3 2016*