Xaime Rivas Rey | RÉSUMÉ

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Education

Drexel University, Philadelphia
Ph.D. Candidate 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 and taught recitation and labs. *2016–2020*
Software Defined Radios, Introduction to Programming, Linear Algebra, Pattern Recognition, Cell and Tissue Image Analysis, Wireless Systems, Computing and Control Systems
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 IoT sensor for wave energy analysis.

Skills

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

Databases: MySQL and MongoDB.

Tools: Git, Bash, LaTeX and Office.

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

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

Relevant Coursework

Coursera - deeplearning.ai: Neural Networks and Deep Learning (May 15, 2019). Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization (August 2019). Structuring Machine Learning Projects (March 2020).

Drexel University: Artificial Intelligence, Machine Learning, Probability, Data Science using R, Pattern Recognition, Cognitive Radios, Digital Signal Processing, Optimization Methods, Control Systems, Principles of Computer Networking.

Recent Publications

Real-Time Online Learning for Pattern Reconfigurable Antenna State Selection
X Rivas Rey, G Mainland, K. Dandekar *2020*
2020 7th NAFOSTED Conference on Information and Computer Science (NICS)

Greedy Channel Selection for Dynamic Spectrum Access Radios
A Lackpour, X Rivas Rey, G. Mainland, K. Dandekar *2020*
2020 IEEE International Symposium on Circuits and Systems (ISCAS)

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*