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POSITIONS **Universidad Carlos III de Madrid** Oct. 2019 - Present

Predoctoral Researcher
Signal Processing Group
Supervisors: Prof. Dr. Antonio Artés Rodríguez
Dr. Pablo Martínez Olmos

University of Cambridge Feb. 2021 - Feb. 2022

Visiting researcher
Machine Learning Group
Supervisor: Dr. José Miguel Hernández-Lobato

Universidad Carlos III de Madrid Feb. 2017 - Sept. 2019

Research associate
Signal Processing Group
Supervisor: Prof. Dr. Antonio Artés Rodríguez

EDUCATION **Universidad Carlos III de Madrid** Oct. 2018 - Present

PhD in Probabilistic Machine Learning
Signal Processing Group
Advisors: Prof. Dr. Antonio Artés Rodríguez
Dr. Pablo Martínez Olmos

Universidad Carlos III de Madrid Sep. 2016 - Jul. 2018

M.Sc. in Multimedia and Communications
M.Sc. in Telecommunications Engineering

Universidad de Granada Sep. 2012 - Jul. 2016

B.Sc. in Telecommunications Engineering

COURSES **Gaussian Process and Uncertainty Quantification** Sep. 2020

Summer School, 2020.

University of Sheffield

Machine Learning Summer School (MLSS) Sep. 2019

Skoltech Institute of Science and Technology, Moscow, Russia

	Machine Learning Frontiers in Precision Medicine (MLFPM) 1st Summer School <i>ETH Zurich, Switzerland</i>	Sep. 2019
	Machine Learning Summer School (MLSS) <i>Universidad Autónoma de Madrid, Spain</i> Volunteer staff	Sep. 2018
	Gaussian Process and Uncertainty Quantification Summer School, 2017. <i>University of Sheffield</i>	Sep. 2017
TALKS	<i>Missing Data Imputation and Acquisition with Deep Hierarchical Models and Hamiltonian Monte Carlo</i>	Jun. 2022
	<i>Deep Sequential Models for Suicidal Ideation from Multiple Source Data</i> Signal Processing Group Universidad Carlos III de Madrid	Jul. 2018
REVIEWING	Journal of Machine Learning Research (JMLR)	2022
	Journal of Biomedical and Health Informatics (JBHI)	2018 - 2022
TEACHING	<i>Advanced Machine Learning and Feature Engineering</i> BBVA, Fundación UC3M	2022
	<i>Machine Learning Fundamentals</i> BBVA, Fundación UC3M	2020-2022
	<i>Machine Learning II</i> Bachelor in Data Science and Engineering Universidad Carlos III de Madrid	2020, 2022
	<i>Neural Networks</i> Bachelor in Data Science and Engineering Universidad Carlos III de Madrid	2022
	<i>Communications Theory</i> Bachelor in Telecommunications Engineering Bachelor in Sound and Image Engineering Universidad Carlos III de Madrid	2022

PUBLICATIONS I. Peis, C. Ma and J. M. Hernández-Lobato. **Missing Data Imputation and Acquisition with Deep Hierarchical Models and Hamiltonian Monte Carlo** . *arXiv preprint arXiv:2202.04599* . 2022.

I. Peis, P. M. Olmos and A. Artés-Rodríguez. **Unsupervised Learning of Global Factors in Deep Generative Models**. *arXiv preprint arXiv:2012.08234* . 2021.

I. Peis, J. D. López-Morínigo, M. M. Pérez-Rodríguez, M. L. Barrigón, M. Ruiz-Gómez, A. Artés-Rodríguez and E. Baca-García. **Actigraphic recording of motor activity in depressed inpatients: a novel computational approach to prediction of clinical course and hospital discharge**. In *Scientific reports*, 10. Nature, 2020.

I. Peis, P. M. Olmos, C. Vera-Varela, M. L. Barrigón, P. Courtet, E. Baca-García and A. Artés Rodríguez. **Deep Sequential Models for Suicidal Ideation from Multiple Source Data**. In *Journal of Biomedical and Health Informatics*, vol. 23, no. 6. IEEE, 2019.

D. Castillo-Barnes, I. Peis, F. J. Martínez-Murcia, F. Segovia, I. A. Illán, J. M. Górriz, J. Ramírez, D. Salas-Gonzalez. **A Heavy Tailed Expectation Maximization Hidden Markov Random Field Model with Applications to Segmentation of MRI**. In *Frontiers in Neuroinformatics*, 11, 66, 2017.

I. Peis, I. A. Illán, F. J. Martínez-Murcia, F. Segovia, J. M. Górriz, J. Ramírez, E. W. Lang & D. Salas-Gonzalez. **MRI brain segmentation using hidden Markov random fields with alpha-stable distributions**. In *IEEE Nuclear Science Symposium, Medical Imaging Conference and Room-Temperature Semiconductor Detector Workshop (NSS/MIC/RTSD)* (pp. 1-3). IEEE, 2016.

DISSERTATIONS I. Peis. **Deep sequential models with attention for psychiatric patients clinical assessment**. *M.Sc. Thesis Dissertation (Multimedia and Communications)*, 2018.

I. Peis. **Activity monitoring in depressed patients in the hospital setting: a pilot study testing new methods of actigraphy data analysis for predicting clinical progress and date of hospital discharge**. *M.Sc. Thesis Dissertation (Telecommunications Engineering)*, 2018.

I. Peis. **Hidden Markov Random Fields with alpha-stable distributions for brain Magnetic Resonance Images**. *B.Sc. Thesis Dissertation (Telecommunications Engineering)*, 2016.

GRANTS FPU granted to fund doctoral studies
Spanish Ministry of Education

2019

LANGUAGES	Spanish	Mothertongue
	English	Advanced
	French	Basic

PROGRAMMING SKILLS	Main Languages	PYTHON, MATLAB, C, JAVA
	Frameworks	PYTORCH, TENSORFLOW, SKLEARN, GPY, STAN
	Others	R, C++, SQL, HTML, JAVASCRIPT, CSS3