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POSITIONS	**Universidad Carlos III de Madrid** *Predoctoral Researcher* Signal Processing Group Supervisors: Prof. Dr. Antonio Artés Rodríguez Dr. Pablo Martínez Olmos	Oct. 2019 - Present
	University of Cambridge *Visiting researcher* Machine Learning Group Supervisor: Dr. José Miguel Hernández-Lobato	Feb. 2021 - Feb. 2022
	Universidad Carlos III de Madrid *Research associate* Signal Processing Group Supervisor: Prof. Dr. Antonio Artés Rodríguez	Feb. 2017 - Sept. 2019
EDUCATION	**Universidad Carlos III de Madrid** *PhD in Probabilistic Machine Learning* Signal Processing Group *Advisors*: Prof. Dr. Antonio Artés Rodríguez Dr. Pablo Martínez Olmos	Oct. 2018 - Present
	Universidad Carlos III de Madrid *M.Sc. in Multimedia and Communications* *M.Sc. in Telecommunications Engineering*	Sep. 2016 - Jul. 2018
	Universidad de Granada *B.Sc. in Telecommunications Engineering*	Sep. 2012 - Jul. 2016
TEACHING	*Advanced Machine Learning and Feature Engineering* **BBVA, Fundación UC3M**	2022 - Present
	Machine Learning Fundamentals **BBVA, Fundación UC3M**	2020-Present
	Machine Learning II Bachelor in Data Science and Engineering **Universidad Carlos III de Madrid**	2020, 2022

Neural Networks   2022
Bachelor in Data Science and Engineering
Universidad Carlos III de Madrid

Communications Theory   2022
Bachelor in Telecommunications Engineering
Bachelor in Sound and Image Engineering
Universidad Carlos III de Madrid

REVIEWING   **Artificial Intelligence and Statistics (AISTATS)**   2022
Selected as **Top-10% Reviewer**

Journal of Machine Learning Research (JMLR)   2022

Journal of Biomedical and Health Informatics (JBHI)   2018 - Present

PUBLICATIONS

2023   B. Koyuncu, P. Sánchez, **I. Peis**, P. M. Olmos and I. Valera. **Variational Mixture of HyperGenerators for Learning Distributions Over Functions**. *Preprint arXiv:2302.06223*, 2023. [pdf]

2022   **I. Peis**, P. M. Olmos and A. Artés-Rodríguez. **Unsupervised Learning of Global Factors in Deep Generative Models**. In *Pattern Recognition, vol. 134, p. 109130*, 2022. [pdf]

     I. Peis, C. Ma and J. M. Hernández-Lobato. **Missing Data Imputation and Acquisition with Deep Hierarchical Models and Hamiltonian Monte Carlo** . In *Advances in Neural Information Processing Systems 35 (NeurIPS)*, 2022. [pdf]

2020   **I. Peis**, J. D. López-Moríñigo, 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. [pdf]

2019   **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. [pdf] [html]

2017   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. [pdf]

2016   **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. [html]

TALKS   *Missing Data Imputation and Acquisition with Deep Hierarchical Models and Hamiltonian Monte Carlo*   Jun. 2022
Signal Processing Group
Universidad Carlos III de Madrid

Deep Sequential Models for Suicidal Ideation from Multiple Source Data   Jul. 2018
Signal Processing Group
Universidad Carlos III de Madrid

COURSES   **AI and Machine Learning in Healthcare Summer School**   Sep. 2022
Cambridge Centre for AI in Medicine
University of Cambridge, UK

Gaussian Process and Uncertainty Quantification Summer School, 2020.   Sep. 2020
University of Sheffield, UK

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   Sep. 2019
ETH Zurich, Switzerland

Machine Learning Summer School (MLSS)   Sep. 2018
Universidad Autónoma de Madrid, Spain
Volunteer staff

Gaussian Process and Uncertainty Quantification Summer School, 2017.   Sep. 2017
University of Sheffield, UK

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, STAN
	Others	R, C++, SQL, HTML, JAVASCRIPT, CSS3