

JAVIER SÁEZ MALDONADO

PERSONAL DATA

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EDUCATION

2021-NOW	MASTER'S DEGREE IN DATA SCIENCE Universidad Autónoma Madrid, Spain CURRENT GPA: 8.86/10	Developed work can be found at github.com/fjsaezm/mcd
2015-2021	BACHELOR DEGREE IN COMPUTER SCIENCE University of Granada, Spain Specialized in Machine Learning.	BACHELOR DEGREE IN MATHEMATICS University of Granada, Spain

WORK EXPERIENCE

NOV 2022 - NOW	PROJECT RESEARCHER AT UNIVERSIDAD DE GRANADA I worked with the Visual Information Processing group helping to formulate and develop Bayesian models based on Gaussian processes for cancer detection in histopathological images.
JUN 2020-DEC 2020	MACHINE LEARNING INTERNSHIP AT INPUT FOR YOU I used OpenCV for image preprocessing and tested different YOLO versions for object detection in images.

PROJECTS AND MEMBERSHIPS

BACHELOR'S THESIS	REPRESENTATION LEARNING USING CONTRASTIVE LEARNING Reviewed the state-of-art frameworks in computer vision that use contrastive learning to learn good representations for downstream tasks. Also reviewed mutual information lower bounds for machine learning. Github Repository .
FUNCTIONAL METHODS	THE EXPONENTIAL KERNEL : MASTER'S DEGREE TEST Theoretically and empirically studied the exponential kernel and how to approximate it using Nystroem Random Features Github Repository .
BAYESIAN LEARNING	VARIATIONAL AUTOENCODER : MASTER'S DEGREE ASSIGNMENT Implemented a variational autoencoder, studying the variational inference problem and experimented with the dataset MNIST. Github Repository .
LIBREIM	Nonprofit student organization dedicated to creating notes for several Comp-Sci and Maths subjects. I've collaborated taking notes on Algebra, Geometry and Statistics. https://github.com/libreim
COMPETITIONS	HASH CODE 2020 Team based competition. Ranked 1422 globally. TUENTI CHALLENGE 2020 Individual challenge in which you must solve as many problems as you can in one week. Ranked 211.

SKILLS

Languages :	SPANISH (NATIVE), FRENCH (Basic) ENGLISH (FLUENT, Cambridge Certificate in Advanced English)
Advanced Knowledge :	PYTHON, \LaTeX , GIT, OPENCV
Intermediate Knowledge :	C++, LINUX, KERAS, R, MATLAB
Basic Knowledge :	RUBY, C/C#, SQL, HTML, JAVA, ANDROID

INTERESTS

Gaussian Processes, Variational Inference, Representation Learning, Contrastive Learning, Functional Methods, Statistics, Open Source, Unsupervised Learning