

# JAVIER SÁEZ MALDONADO

## PERSONAL DATA

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## EDUCATION

2021-CURRENT	MASTERS DEGREE IN DATA SCIENCE Universidad Autónoma Madrid, Spain	Developed work can be found at <a href="https://github.com/fjsaezm/mcd">https://github.com/fjsaezm/mcd</a>
2015-2021	BACHELOR DEGREE IN COMPUTER SCIENCE University of Granada, Spain Specialized in Machine Learning.	BACHELOR DEGREE IN MATHEMATICS University of Granada, Spain

## 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. <a href="https://github.com/fjsaezm/Mutual-Information-in-Unsupervised-Machine-Learning">https://github.com/fjsaezm/Mutual-Information-in-Unsupervised-Machine-Learning</a> .
FUNCTIONAL METHODS	THE EXPONENTIAL KERNEL : MASTER'S TEST Theoretically and empirically studied the exponential kernel and how to approximate it using Nystroem Random Features. Adapted Mask R-CNN in python to obtain instance segmentation in own database. <a href="#">Github Repository</a>
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. <a href="https://github.com/libreim">https://github.com/libreim</a>
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.

## WORK EXPERIENCE

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.
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## LANGUAGES

SPANISH: Native  
ENGLISH: Fluent - Cambridge Certificate in Advanced English (CAE) - October 2020  
FRENCH: Basic knowledge

## COMPUTER SKILLS

Advanced Knowledge : PYTHON,  $\text{\LaTeX}$ , GIT, OPENCV  
Intermediate Knowledge: C++, LINUX, KERAS, R, MATLAB  
Basic Knowledge: RUBY, C/C#, SQL, HTML, JAVA, ANDROID

## INTERESTS

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