

# JEAN CADIC | DATA SCIENTIST

»» Everything must be made as simple as possible. But not simpler. ««



- › **Education:** M.Sc. Artificial Intelligence, B.Sc Mathematics, B.A Anthropology
- › **Fields:** Machine Learning, Distributed Systems, Software Development
- › **Dev/DB:** Python, C++, Java, Go, Rust / SQL, HBase, MongoDB, Redis
- › **Stack:** Pytorch/Tensorflow, GCP/AZURE/AWS, Docker, Kubernetes, Git
- › **Activities:** Photography, Hicking, Reading

## Senior Applied Scientist / Project Manager @ Synspective

Apr. 2020 - now

- › Design and develop a geo-spatial solution as a service (SaaS) ensuring scalability for space program.
- › Deep learning applications for SAR images analysis for segmentation (Unet) and prediction (PredRNN++).
- › Architect of Synskit an internal framework to improve project stability and scalability.
- › Manage engineers projects through weekly code review.

## Principal AI engineer / CAIO @ 9DW

Feb. 2016 - Apr. 2020

- › Architect of IYO, A Smart Peer-to-Peer Distributed Artificial Intelligence.
- › ETL/DevOps and products dev. for anomaly detection, object detection, speech recognition, recommendation system.
- › Developed innovative online training strategies in machine learning for scalability and stability.
- › Worked on a wide span of architectures: CNN+RNN, Transformers, BERT, EMD/IMF+LSTM, KL+VAE, ResNet.
- › Managed 15 engineers (KPI, code review..), white papers, business strategy and negotiations with the clients.

## Research Assistant @ Waseda University

Oct. 2015 - Feb. 2016

- › Causality detection from attractors and deep learning approach based on NARX architecture.
- › Statistical analysis and modeling. Hyperparameters estimations, development from CMS toolbox in Matlab.

## Data Scientist @ ISIR/CNRS

Jun. 2014 - Nov. 2014

- › Developer C++ of OpenSmile for large-scale feature extractor from multimedia files.
- › SVM for detection of social commitment from voice signal in the first universe age.

## Software Engineer @ LIP6/CNRS

Jan. 2014 - May. 2014

- › Developer Java of the Weka open source machine learning library.
- › Development and integration of semi-supervised module for GKNN/KNN.

## Software Engineer @ Dassault Aviation

Jun. 2012 - Sept. 2012

- › Responsible of software and database development for Armament department.
- › Frontend/Backend Implementation of database MySQL with VBA .Net

## Patent

- › Dec. 2018 - Inventor of a solution to generate 3d prosthesis with an innovative neural network architecture. WO/2018/230303

## Conference / Journals

- › Oct. 2019 - The emotional component of Infant Directed-Speech: a cross-cultural study using machine learning, J-M Cadic et al., Neuropsychiatrie de l'enfance et de l'adolescence, Elsevier
- › Jan. 2016 - Imaginary and Artificial Intelligence through a transversal approach. J-M. Cadic, Societes N 131.
- › Apr. 2015 - Towards an affordable mobile analysis platform for pathological walking assessment. J-M Cadic et al., Robotics and Autonomous Systems, Volume 66, Pages 116-128.