

Experience

9DWLAB

Co-founder & Chief Operating Officer

Tokyo, Japan

Dec. 2018 - Present

- Architect of IYO, A Smart Peer-to-Peer Distributed Intelligence - (PATENT IN PROGRESS)
- Design and implement business strategies, plans and procedures.
- Establish policies that promote company vision and mission.
- Product design and negotiation with the clients.

9DW

Chief Artificial Intelligence Officer

Tokyo, Japan

April. 2017 - Present

- Apply machine learning and AI methods into client work spanning a range of use cases including exploratory insights, predictive modeling reporting, and optimization.
- Develop innovative solutions for client work built into standardized methods.
- Supervision of 15 engineers (project management, axis of research, code review...).

9DW

Principal AI engineer

Tokyo, Japan

Feb. 2016 - Present

- Speech recognition system developer, data analyst and model architect.
- Earthquake prediction based on EMD/IMF and LSTM neural network.
- Development of patented solution for the generation of dental mesh.
- Brain anomaly detection based on KL divergence using VAE.
- Building reconstruction based on genetic algorithms.
- Setup of server Linux and services AWS/GCP/AZURE.

WASEDA UNIVERSITY

Research Assistant / Data Analyst

Tokyo, Japan

Oct. 2015 - Mar. 2017

- Matlab developer using NARX (nonlinear autoregressive with exogenous input) for causality detection.
- Signal processing and causality quantification from CMS using Matlab Neural Nets toolbox.
- Improvement of pre-processing methods for causality detection using KNN/FKNN.

TOKYO UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

Research Assistant / AI Architect

Tokyo, Japan

Oct. 2015 - Feb. 2016

- Software architect of a new hybrid architecture HREP-3 for multi-modal analysis of interaction in HRI.
- Software development in C# for head tracking with KinectV2 from Microsoft.
- Android developer for an application of data visualization under Unity3D in C#.
- Unity3D interactive game «Magic Trick» using Pepper from Aldebaran Robotics.
- Modules developed: NLP (ALICE - Java), Vision (Anaconda -Python), Multi-threading for Client/Server (Python).

ISIR/CNRS

Research Intern / Data Analyst

Paris, France

Jun. 2014 - Nov. 2014

- Developer C++ of OpenSmile for large-scale feature extractor from multimedia files.
- SVM technique used for detection of social commitment with voice signal in the first universe age with 75 % accuracy.
- Cluster of computers for data analysis.

LIP6/CNRS

Research Intern / Software Developer

Paris, France

Jan. 2014 - May. 2014

- Developer of WEKA OpenSource library for Data Mining in JAVA.
- Development and integration of semi-supervised module.
- Proposal and optimization for cluster detection.
- Contribution for cluster detection with linear complexity $O(n)$ in time and memory.

LIRMM/CNRS/EUROMOV

Research Intern / Robot Vision

Montpellier, France

Jun. 2013 - Sept. 2013

- Developer C++ of tracking system with OpenCV on mobile robots.
- Creation of detailed test plans and test cases.
- Test and demonstration for EUROMOV (European Center for Research on Human Movement) inauguration.

Education

PhD. candidate in Artificial Intelligence and Robotics

Tokyo University of Agriculture and Technology

Tokyo, Japan

Sept. 2015 - Sept. 2016

M.Sc. in Artificial Intelligence

Sorbonne University / Telecom ParisTech

Paris, France

Sept. 2013 - Sept. 2015

B.S. in Mathematics

UM2, (University Montpellier 2)

Montpellier, France

Sept. 2010 - Sept. 2013

B.A. in Anthropology and Sociology

UM3, (University Montpellier 3)

Montpellier, France

Sept. 2010 - Sept. 2013

Grants

Scholarship French Ministry of Higher Education and Research for mobility to Japan.

Feb. - Aug. 2015

Publications

White Paper	IYO: A Smart Peer-to-Peer Distributed Intelligence J-M. Cadic	Dec. 2019
Journ.	The emotional component of Infant Directed-Speech: a cross-cultural study using machine learning, Neuropsychiatrie de l'enfance et de l'adolescence, Elsevier J-M. Cadic	Oct. 2019
Rev.	Imaginary and Artificial Intelligence through a transversal approach J-M. Cadic, Societes N 131	Jan. 2016
Journ.	Towards an affordable mobile analysis platform for pathological walking assessment. V.Bonnet, C. Azevedo Coste, L. Lapierre, J-M. Cadic, P. Fraisse, R. Zapata and C.Geny, Robotics and Autonomous Systems, Volume 66, Pages 116-128	Apr. 2015
Conf.	The universality of motherese prosodic characteristics. Erika Parlato, Catherine Saint-Georges, M. Chetouani, J-M. Cadic, Conference, 3 IPC in RIO, Domain Specificity in Language Acquisition & Processing	Apr. 2015

Patents

JP	A RECOMMENDATION SYSTEM FOR COMPOSITE ASSEMBLING PROBLEMS J-M. Cadic	Ongoing
JP	8048. (WO2018230303) THREE-DIMENSIONAL PROSTHESIS MODEL GENERATING DEVICE, PROSTHESIS FABRICATION SYSTEM, THREE-DIMENSIONAL PROSTHESIS MODEL GENERATING METHOD, AND THREE-DIMENSIONAL PROSTHESIS MODEL GENERATING PROGRAM J-M. Cadic	Oct. 2019

Languages

French	Native Speaker
English	Professional proficiency
Spanish	Conversant
Japanese	Basic