

# Curriculum Vitae

Mr. José-Luis Vilchis-Medina

➤ **PhD. in Computer Science**<sup>a</sup>

BCRM Brest  
Ecole navale, CC 600  
29240 BREST CEDEX 9

<sup>a</sup>. (Artificial Intelligence & Logic)

Email : [jl.vilchis\\_medina@ecole-navale.fr](mailto:jl.vilchis_medina@ecole-navale.fr)

Website : [jluismv.github.io](https://jluismv.github.io)

Office : 01.038, Building Bougainville

🔄 Updated : March 2023

## ► Current Situation ◀

Oct-2021/today	<b>French Naval Academy</b> <i>French Naval Academy Research Institute (IRENav EA3634), MoTIM group.</i> <b>Assistant Professor of Computer Science.</b>	Brest, France
----------------	--	---------------

## ◀ Employment Situation ▶

Oct-2020/Sep-2021	<b>ONERA-The French Aerospace Lab</b> <i>DTIS – Traitement de l'information et systèmes, Systèmes Embarqués, Autonomes et Sûrs (SEAS) unit.</i> <b>Postdoctoral position</b>	Toulouse, France
Oct-2019/Sep-2020	<b>Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier – LIRMM</b> <i>EXPLORE team.</i> <b>Postdoctoral position</b>	Montpellier, France
Sep-2018/Aug-2019	<b>Aix-Marseille Université</b> CALcul NATurel team <i>Faculty of Sciences, Bachelor in Computer Science.</i> <b>Teaching-Research position (ATER ≈ 192H)</b>	Marseille, France

## ► Subjects of Research ◀

- Knowledge Representation and Reasoning
- Non-monotonic Reasoning
- Non-classical Logics
- Logic Programming
- Decision Theory
- Resilience Theory

## ► Education ◀

Oct-2015/Dec-2018	<p style="text-align: center;"><b>PhD. in Computer Science</b>  Laboratoire d'Informatique et Systèmes (LIS)  CALcul NATurel team</p> <p style="text-align: center;"><b>Title :</b>  <i>Modeling of Resilient System in Default Logic.  Application to Solar Power UAV.</i></p> <p>(Supervisor) PU Pierre Siegel, LIS, Marseille  (co-Supervisor) PU Andrei Doncescu, LAAS, Toulouse  (Rapporteur) PU Lakhdar Saïs, CRIL, Lens  (Rapporteur) PU Jacques Demongeot, Université  Grenoble Alpes  PU Amal El Fallah Seghrouchni, LIP6, Paris  PU Yves Lacroix, Université de Toulon  MCF Vincent Risch, LIS, Marseille</p>	Marseille, France
Sep-2015	<p style="text-align: center;"><b>M.Sc. in Electrical and Automation Engineering</b>  INP-ENSEEIH</p> <p style="text-align: center;"><b>Option :</b>  Control, Decision and Critical Computing Systems</p> <p style="text-align: center;"><b>Title :</b>  <i>Design of a versatile electronic demonstrator for the  measurement of displacements by optical re-injection in a  laser diode, with control of the emitted beam.</i></p> <p style="text-align: center;"><b>Supervisors :</b>  Julien PERCHOUX and Antonio LUNA ARRIAGA</p>	Toulouse, France
Aug-2012	<p style="text-align: center;"><b>B.Sc. in Electronics Engineering</b>  Universidad Autónoma de Baja California</p> <p style="text-align: center;"><b>Option :</b>  Control Systems - <i>with Honors</i></p> <p style="text-align: center;"><b>Final Project :</b>  <i>Design of an embedded system for agricultural  applications.</i></p>	Ensenada, Mexico

## ► Price – Awards ◀

<b>High academic achievement by the National Evaluation Center (CENEVAL)</b> Universidad Autónoma de Baja California, Promotion 2012 B.Sc. in Electronic Engineering.
<b>Mexico-France Exchange Engineers Technology (MEXFITEC)</b> Electronic and Signal Processing, 1-year exchange (BAC+4) at INP-ENSEEIH.

## ► Languages ◀

<b>Spanish</b> Mother tongue	<b>English</b> Advanced level	<b>Français</b> Advanced level	<b>Portugais</b> Basic-Intermediate level
---------------------------------	----------------------------------	-----------------------------------	--

## ► Technical Skills ◀

<b>Text editor :</b> L <sup>A</sup> T <sub>E</sub> X, Vim ; <b>Programming languages :</b> Prolog, C/C++, Python, Bash, HTML/CSS, PHP, MySQL, MATLAB ; <b>Operating System :</b> macOS (mainly), Linux, Windows
---

## ► Publications ◄

- [9] José Luis VILCHIS MEDINA. “Evaluation and Identification of Properties in a Set of Information through Qualitative and Non-monotonic Reasoning”. In : *The 6th International Conference on Computer Science and Artificial Intelligence (CSAI, abstract only)* (2022).
- [8] José-Luis VILCHIS-MEDINA, Karen GODARY-DÉJEAN et Charles LESIRE. “Autonomous Decision-Making With Incomplete Information and Safety Rules Based on Non-Monotonic Reasoning”. In : *IEEE Robotics and Automation Letters* 6.4 (2021), p. 8357-8362.
- [7] José Luis Vilchis MEDINA et al. “A Resilient Behavior Approach Based on Non-monotonic Logic”. In : *Journées d’Intelligence Artificielle Fondamentale* (2020), p. 16.
- [6] José Luis Vilchis MEDINA et al. “A Resilient Behavior Approach Based on Non-monotonic Logic”. In : *Mexican International Conference on Artificial Intelligence*. Springer. 2019, p. 403-413.
- [5] José Luis Vilchis MEDINA et al. “An Implementation of a Nonmonotonic Logic in an Embedded Computer for a Motor-glider”. In : *35th International Conference on Logic Programming (ICLP)*. Accepted. 2019.
- [4] José Luis Vilchis MEDINA, Pierre SIEGEL et Andrei DONCESCU. “Non-monotonie et Resilience : Application au Pilotage d’un Motor-planeur Autonome”. In : *Journées d’Intelligence Artificielle Fondamentale* 12 (2018), p. 6.
- [3] José Luis Vilchis MEDINA et al. “Intelligent and Adaptive System based on a Non-monotonic Logic for an Autonomous Motor-glider”. In : *2018 15th International Conference on Control, Automation, Robotics and Vision (ICARCV)*. IEEE. 2018, p. 442-447.
- [2] José-Luis Vilchis MEDINA, Pierre SIEGEL et Andrei DONCESCU. “Contrôle de Vol d’un Planeur Basé sur une Logique Non-monotone”. In : *Journées Francophones sur la Planification, la Décision et l’Apprentissage pour la conduite de systèmes (JFPDA 2017)*. 2017.
- [1] Vilchis MEDINA, Pierre SIEGEL et Andrei DONCESCU. “Autonomous Aerial Vehicle Based on Non-Monotonic Logic”. In : *3rd International Conference on Vehicle Technology and Intelligent Transport Systems (VE-HITS)*. 2017, 6p.