

# Curriculum Vitae

Mr. José-Luis Vilchis-Medina

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

ENSTA Bretagne  
2, Rue François Verny  
29200, Brest, France

Office : Building M-113

Email : jose.vilchis@ensta-bretagne.fr

Website : jluisvim.github.io

🔄 Updated : September 2023

*a.* (based-logic Artificial Intelligence)

## ► Current Situation ◀

Sep-2023/today	<b>ENSTA Bretagne</b> <i>Lab-STICC (UMR 6285), ROBEX team.</i> <b>Researcher of Computer Science.</b>	<b>Brest, France</b>
----------------	---	----------------------

## ◀ Employment Situation ▶

Oct-2021/Aug-2023	<b>French Naval Academy</b> <i>French Naval Academy Research Institute (IRENav EA3634), MoTIM group.</i> <b>Assistant Professor of Computer Science.</b>	<b>Brest, France</b>
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>	<b>Toulouse, France</b>
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>	<b>Montpellier, France</b>
Sep-2018/Aug-2019	<b>Aix-Marseille Université</b> <i>CALcul NATurel team</i> <i>Faculty of Sciences, Bachelor in Computer Science.</i> <b>Teaching-Research position (ATER ≈ 192H)</b>	<b>Marseille, France</b>

## ► Subjects of Research ◀

- *Knowledge Representation and Reasoning*
- *Non-monotonic Reasoning*
- *Qualitative and Automated Reasoning*
- *Declarative Programming*
- *Planning and Decision Theory*
- *Autonomous-Intelligent Agents*

## ► Education ◀

<b>Oct-2015/Dec-2018</b>	<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) PR Pierre Siegel, LIS, Marseille (co-Supervisor) PR Andrei Doncescu, LAAS, Toulouse (Rapporteur) PR Lakhdar Saïs, CRIL, Lens (Rapporteur) PR Jacques Demongeot, Université Grenoble Alpes PR Amal El Fallah Seghrouchni, LIP6, Paris PR Yves Lacroix, Université de Toulon MCF Vincent Risch, LIS, Marseille</p>	<p style="text-align: right;"><b>Marseille, France</b></p>
<b>Sep-2015</b>	<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>	<p style="text-align: right;"><b>Toulouse, France</b></p>
<b>Aug-2012</b>	<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>	<p style="text-align: right;"><b>Ensenada, Mexico</b></p>

## ► Price – Awards ◀

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

## ► 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, MATLAB, ROS2; <b>Operating System :</b> macOS (mainly), Linux, Windows
---

## ► Supervision ◀

### — 2023

— Post-doctoral Students :

- Youcef Belkhier co-supervised with Jean-Frédéric Charpentier and Florent Becker (18 months). Working on “Multisource energy management system in a naval environment”, École navale.

### — 2022

— Master Students :

- Tom Ravaud from ParisTech, Master 1, research internship (6 months). Working on “Automatic docking of a drone on a mobile platform using ROS2”.
- Maelys Lupin from ENIB, Master 1, mentored projet (4 months). Working on “Modeling of a hexapod robot using ROS2.”

## ► 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.