

Curriculum Vitae

Mr. José-Luis Vilchis-Medina

➤ *PhD. in Computer Science*^a

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^a. (Artificial Intelligence & Logic)

► Current Situation ◀

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

Oct-2021/Aug-2023	French Naval Academy <i>French Naval Academy Research Institute (IRENav EA3634), MoTIM group.</i> Assistant Professor of Computer Science.	Brest, France
Oct-2020/Sep-2021	ONERA-The French Aerospace Lab <i>DTIS – Traitement de l'information et systèmes, Systèmes Embarqués, Autonomes et Sûrs (SEAS) unit.</i> Postdoctoral position	Toulouse, France
Oct-2019/Sep-2020	Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier – LIRMM <i>EXPLORE team.</i> Postdoctoral position	Montpellier, France
Sep-2018/Aug-2019	Aix-Marseille Université CALcul NATurel team <i>Faculty of Sciences, Bachelor in Computer Science.</i> Teaching-Research position (ATER ≈ 192H)	Marseille, France

► Subjects of Research ◀

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| • <i>Knowledge Representation and Reasoning</i> | • <i>Logic Programming</i> |
| • <i>Non-monotonic Reasoning</i> | • <i>Decision Theory and Planning</i> |
| • <i>Qualitative and Automated Reasoning</i> | • <i>Autonomous-Intelligent Agents</i> |

► Education ◀

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

► Price – Awards ◀

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

► Languages ◀

<p>Spanish Mother tongue</p>	<p>English Advanced level</p>	<p>Français Advanced level</p>	<p>Portugais Basic-Intermediate level</p>
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► Technical Skills ◀

<p>Text editor : L^AT_EX, Vim ; Programming languages : Prolog, C/C++, Python, Bash, HTML, MATLAB, ROS2 ; Operating System : macOS (mainly), Linux, Windows</p>
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► 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 Ravaut 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.