

Alejandro REYES AMARO

Curriculum Vitae

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Current position

2016 - up to now **Temporary Adjunct Professor–Researcher**, *Department of Informatics, Laboratory of Numeric Sciences of Nantes (LS2N)*.
University of Nantes

Experience

- 2013 - 2016 **PhD Student**, *LN2N (Inria)*.
Carrier of a three years research project, with the supervision of two master students. Creation of *POSL*, a parallel oriented high level language allowing to build meta-heuristic-based solvers, to solve combinatorial optimization problems.
<https://github.com/alejandro-reyesamaro/POSL>
28 583 lines of code in C++.
- 2010 - 2013 **Researcher - Instructor**, *University of Havana - University of Balearic Islands*.
Member of a research team carrier of divers MAEC-AECID projects (A/023109/09, A/030033/10 et A2/037538/11) to construct serious games able to capture movements of patients with physical disabilities, in order to evaluate the progression of physical rehabilitation.
https://github.com/alejandro-reyesamaro/iKinematic_arm
38 768 lines of code in C# and 4 062 lines of code in MATLAB
- 2006 - 2011 **Freelance**.
 - Update of the data layer and the data access layer of the on-line booking system of *Umbrella Travel* web site. (<https://www.umbrellatravel.com/>).
(not open code)
2 343 lines of code in C# (LinQ, ASP.NET)
 - Leader of a *freelances* team for the creation of:
 - *Neurohipot*: A system to evaluate attention and short-term memory skills in the elderly, to face the senile dementia diagnostic, for the university-hospital Gregorio Marañón, Spain.
<https://github.com/alejandro-reyesamaro/Neurohipot>
29 421 lines of code in C# (Microsoft Access Data Base)
 - On-line store for buying Cuban products from abroad and distribute them in Cuba.
http://git@github.com:alejandro-reyesamaro/vSotre_cuba.git
47 330 lines of code in C# (SQL Server, ASP.NET)
- 2008 - 2010 **IT Developer**, *Software & Consulting Group*.
Member of a developers team to create:
 - A web site for the evaluation of social responsibility levels of small enterprises in Costa Rica (wed design included).
(not open code)
89 193 lines of code in C# (SQL Server, ASP.NET)
 - A plugin for the *back-end* of the internal services management system of the enterprise (CSG).
(not open code)
5 165 lines of code in C# (Microsoft Access Data Base)

Education

2013 - 2016 **PhD in Computer Sciences**, *UFR Sciences et techniques, University of Nantes, France.*

Keywords: Constraint satisfaction problems, meta-heuristics, parallelism, communication strategies.

2007 - 2011 **Master's degree in Mathematical Sciences. Numerical Analysis**, *Faculty of Mathematics and Computer Sciences. University of Havana, Cuba.*

Keywords: Inverse kinematics, path finding, collision detection, particles filtering.

2001 - 2006 **Bachelor of Computer Science**, *Faculty of Mathematics and Computer Sciences. University of Havana, Cuba.*

Keywords: Unfeasible primal-dual interior point method, linear programming, large scale problems.

Computer skills

Programming languages

C#, C/C++, Java/Javascript, MATLAB, R.

Web and data bases

ASP.NET, HTML/CSS, SQL Server, Microsoft Access Database, LinQ, WCF.

Version control systems

Intermediate user of Git.

Other computer and et mathematics skills

- Operating systems:
 - Linux
 - Windows
- Multi-core Technologies
- Combinatorial optimization
- Local search
- Function approximation
- Non-linear programming
- Visualization:
 - VirtualBox
 - VMwarre
- Massively parallel architectures
- Constraint programming
- computer vision
- Kinet cams
- Linear numerical algebra

Languages (Common European Framework of Reference (CEF))

*****	Spanish	Native
****	English	Listening: C1, Reading: C1, Speaking: C1, Writing: C1
****	French	Listening: C1, Reading: C1, Speaking: C1, Writing: C1

Hobbies

- Music:
 - <https://youtu.be/KTkxVKzovOE>
 - https://youtu.be/yZxXxMNTTo_Y
- Latin dance: Salsa, bachata, etc.
- Sports:
 - Volleyball
 - Table tennis
 - Diving
 - Body-building
- Spare time: Horseback riding