

# Curriculum Vitae

## Personal Data

Name	Fernando Tarín Morales
Nationality	Spanish
E-mail	tarin.f@gmail.com

## Higher Education

2004 - 2010	<b>Technical University of Valencia</b> <i>Computer Engineering, Specialization in Software Engineering</i>
2010 - 2011	<b>Technical University of Valencia</b> <i>Master in Software Engineering, Formal Methods and Information Systems</i>
2013 - now	<b>The University of Tokyo</b> <i>PhD Student at the Computer Science Department</i>

## Knowledge

### Programming Languages:

C/C++, Python and Shell Scripting.  
Knowledge of Java, Clojure, Prolog and x86 assembler (as).

### Databases:

SQL, Deductive Databases (Datalog).

### Web Development:

Python + Html

## Experience

2013 - now	<b>National Institute of Informatics at the National Center of Sciences of Japan</b> <i>Research assistant at professor Honiden's laboratory</i> <a href="http://www.honiden.nii.ac.jp/">http://www.honiden.nii.ac.jp/</a> Since April. Research assistant at professor Honiden's laboratory. Working on internal research groups and my own research thesis based on logic resolvers and logical computable languages.
2011 - 2012	<b>National Institute of Informatics at the National Center of Sciences of Japan</b> <i>Internship at professor Honiden's laboratory</i> <a href="http://www.honiden.nii.ac.jp/">http://www.honiden.nii.ac.jp/</a>

Since October to March. Intern at professor Honiden's laboratory under the supervision of professor Ishikawa working on the development of formal tools, specifically, developing a tool to translate source code between several programming languages.

2010 - 2011

**Technical University of Valencia**

*Researcher at ELP*

<http://users.dsic.upv.es/grupos/elp/index.html>

Since August to September. Research Fellow in the ELP group working on the use of Datalog for static analysis of Java programs and working in efficient ways to solve such logic specifications. Currently working on ways to improve the efficiency of Datalog.

2009 - 2010

**Technical University of Valencia**

*Researcher at ELP*

<http://users.dsic.upv.es/grupos/elp/index.html>

From November to July. Fellow of the ministry working in my thesis project: "STRATEGIES FOR THE BOTTOM-UP EVALUATION OF DATALOG PROGRAMS WITH COST WARRANTIES OF TIME AND MEMORY."

The thesis establishes a computational model to create the solver with less cost both in time and memory for the logical language Datalog than the state of the art solvers. Part of this time was also used in the creation and administration of a web application.

[http://safe-tools.dsic.upv.es/datalog\\_solve/](http://safe-tools.dsic.upv.es/datalog_solve/)

## Publications

Presentation of some parts of my bachelor thesis at the workshop Datalog 2.0 <http://datalog20.org/>

**Fernando Tarín**, Christophe Joubert, Marco A. Feliú. PROLE 2010.

"Efficient BES-based Bottom-Up Evaluation of Datalog Programs"

**Fernando Tarín**, Christophe Joubert, Marco A. Feliú. AVOCS 2010.

"Evaluation Strategies for Datalog-based Points-To Analyses"

**Fernando Tarín**, Christophe Joubert, Marco A. Feliú. *Electronic Communications of the EASST*:35, 2010.

"Evaluation Strategies for Datalog-based Points-To Analyses"

**Fernando Tarín**, Fuyuki Ishikawa, Shinichi Honiden. DBPL 2015.  
"Abstract Rewriting Approach to Solve Datalog Programs"

## Projects

### **Lince - Main Developer**

<http://lincetorrent.sourceforge.net/>

Bittorrent client developed in C++ and Python

### **Wepdecrypt - Main Developer**

<http://wepdecrypt.sourceforge.net/>

Program to audit the security of wireless networks developed in C.

### **DD-WRT - Patch Contributor**

<http://www.dd-wrt.com>

Linux-based firmware for a wide variety of wireless routers. I worked on a series of patches to customize and improve the *ADSLPPPoE* tool included with the firmware.

## GitHub

### **Sudoku-tools**

<https://github.com/Nan-Do/sudoku-tools>

Tool designed to generate, solve and validate high quality sudokus developed in Python.

### **Wspy**

<https://github.com/Nan-Do/wspy>

Wireless intrusion detection system developed in Python.

### **Other Repositories**

<https://github.com/Nan-Do/>

Mainly side projects to explore interesting ideas and repositories with my solutions to some web coding challenges like *Project Euler* (top 2%), *4clojure.com* (all solved), or *codewars* (3 kyu).

## Honors and Awards

2013                      Japanese Government (Monbukagakusho) Scholarship.

2010                      Spanish Ministry of Education Scholarship.

## Skills and Interests

Languages                Spanish (Native), Catalan/Valencian (Native), English (Fluent Toefl: 92), Japanese (Conversational)

Interests                 Cooking, reading, computers and discrete math.  
Taking part on online courses (Coursera, Udacity, etc...).  
Practicing a healthy life style including nutrition and fitness.

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