

FLÁVIO CRUZ

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EDUCATION

Faculdade de Engenharia da Universidade do Porto
Integrated Masters in Informatics and Computer Engineering (2005-2010)
Grade average of 18 out of 20 (top 2%)

PhD in Computer Science in the MAP-i Doctoral Programme at the Universities of Minho, Aveiro and Porto
Currently a 1st year student (2010-...)

INTERESTS

- Implementation of Programming Languages
- Parallel Programming
- Logic and Functional Programming
- Artificial Intelligence

SKILLS

Programming Languages

- C, C++, Common Lisp, PHP, StandardML
- Haskell, Prolog, SQL, Javascript, Python

Technologies

- Subversion, git, PostgreSQL, MySQL, Vim, TextMate
- Linux, Windows, MacOSX, GNU Hurd

Others

- Web Development: HTML, CSS, jQuery, JSON, XML

EXPERIENCE

- | | |
|---|-------------------------------------|
| Google Inc. - Google Summer of Code 2008 | Summer of 2008 |
| Design and implementation of a filesystem library written in Common Lisp for easy development of filesystem servers. Library developed for the GNU Hurd project. | |
| Scholarship at IBMC | From November 2008 to November 2009 |
| Design and implementation of a flexible biological database. Supervised by Nuno Fonseca. | |
| Faculdade de Engenharia UP | From March 2009 to June 2009 |
| Undergraduate Teaching Assistant for the Programming 2 course (Master in Electrical and Computers Engineering). Supported students in the development of a small project written in C++, with a focus on object oriented programming. | |
| Faculdade de Engenharia UP | From October 2009 to December 2009 |
| Undergraduate Teaching Assistant for the Graphical Applications Laboratory course (Integrated Master in Informatics and Computer Engineering). Supported students during the development of various OpenGL/C++ projects. | |
| Scholarship at CRACS/FCUP | From February 2010 to June 2010 |
| Implementation of a tabling engine based on <i>call-subsumption</i> semantics for Yap Prolog. Supervised by Ricardo Rocha. | |
| Summer Internship at CMU / Intel Research Labs | From July 2010 to October 2010 |
| Extending the Meld language and runtime to program parallel systems. Work supervised by Seth Copen Goldstein. | |

OTHERS

Merit Scholarship "Ribas de Sousa 2002/2003", awarded by Escola Secundária Emídio Navarro to the best student on the 10^o grade.

"Prémio Incentivo", awarded by University of Porto to the best students finishing the first year of its courses.

Participation on CPUP 2007 (Programming Contest) with Miguel Oliveira and João Azevedo. 2nd place among 8 teams.

PUBLICATIONS

- On the Evaluation of Retroactive Tabled Evaluation. Flávio Cruz and Ricardo Rocha. 27th International Conference on Logic Programming (ICLP 2011). Lexington, Kentucky, USA. (In Progress).
- Efficient Instance Retrieval of Subgoals for Subsumptive Tabled Evaluation of Logic Programs. Flávio Cruz and Ricardo Rocha. Practical Aspects of Declarative Languages 2012. (In Progress).
- BioSeD: A Biological Sequences Database. Flavio Cruz, Cristina Vieira, Jorge Vieira, Nuno A. Fonseca. Oxford Journal of Bioinformatics. (In Progress).
- Call Subsumption Mechanisms for Tabled Logic Programs. Flávio Cruz. MSc in Informatics and Computing Engineering, Department of Informatics Engineering, Faculty of Engineering, University of Porto. Portugal, June 2010.
- Retroactive Subsumption-Based Tabled Evaluation of Logic Programs. Flávio Cruz and Ricardo Rocha. 12th European Conference on Logics in Artificial Intelligence (JELIA 2010), Springer-Verlag. Helsinki, Finland, September 2010.
- Efficient Retrieval of Subsumed Subgoals in Tabled Logic Programs. Flávio Cruz and Ricardo Rocha. 4th International Conference on Compilers, Programming Languages, Related Technologies and Applications (CoRTA 2010). Braga, Portugal, September 2010.

LANGUAGES

- Portuguese: native speaker.
- English: experienced in reading, writing and speaking.

PERSONAL INTERESTS

- Philosophy of Mind
- Evolutionary Biology
- Evolutionary Psychology
- Logics
- Mathematics