





Valentin Reis | C.S. PhD Student

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Interests: Machine Learning (online, convex, scalable), High Performance Computing, Software Engineering.

Employment

- **Inria and Grenoble Alpes University (UGA)** **Grenoble, France** 
Computer Science PhD Student *September 2015 – September 2018*
I am exploring how machine-learning can improve the management of supercomputers. During this endeavor, I've written several open-source Ocaml libraries for online convex optimization, bandits, reinforcement learning and monte-carlo tree search.
- **University of Warsaw (MIM-UW)** **Warsaw, Poland** 
Research Intern *2015 - 4 months*
Developed and evaluated a Machine Learning-based approach to scheduling tasks in High Performance Computing platforms. Performed data analysis on commercial data-center traces.
- **Informatics Laboratory of Grenoble (LIG)** **Grenoble, France** 
Research Intern *2014 - 3 months*
Investigated the use of supervised learning approaches for estimating the running times of tasks in High Performance Computing platforms.
- **University of Sao Paulo (USP)** **Sao Paulo, Brazil** 
Research Intern *2013 - 4 months*
Developed a HPC cluster simulator for the purpose of evaluating a fair-share scheduling algorithm.

Education

- **Grenoble Alpes University** **Grenoble, France**
Master of Science in Informatics in Grenoble

Technical and Personal skills

- **Programming Languages:** Proficient in: Ocaml, Python, R, Bash.
Also able with: Matlab, C/C++, Haskell, Java, Matlab, TeX...
- **Technical Skills:** Software engineering (version control, testing, publishing). GNU/Linux use and administration. Use of large-scale platforms for deploying and running complex computational experiments.
- **Languages:** French and English. I've been working in international environments for half a decade and love to learn about other cultures.
- **Hobbies:** I practice yoga and weightlifting.

Publications

Éric Gaussier, David Glesser, Valentin Reis, and Denis Trystram. Improving backfilling by using machine learning to predict running times. In *Proceedings of the International Conference for High Performance Computing, Networking, Storage and Analysis, SC 2015, Austin, TX, USA, November 15-20, 2015*, pages 64:1–64:10, 2015.

Yanik Ngoko, Denis Trystram, Valentin Reis, and Christophe Cerin. An automatic tuning system for solving np-hard problems in clouds. In *2016 IEEE International Parallel and Distributed Processing Symposium Workshops, IPDPS Workshops 2016, Chicago, IL, USA, May 23-27, 2016*, pages 1443–1452, 2016.