

# Millian Poquet

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## Resume

### Research Experience

- 2014 – 2017 **PhD: Simulation approach for resource management**, *Grenoble Informatics Laboratory (LIG)*, advised by Denis Trystram and Pierre-François Dutot.
- 2014 (6 mths) **Master's internship: Meta-algorithm design about the multicriteria optimization of a pipeline network**, Géo-Hyd Antea Group, Orléans.
- 2010 – 2014 **Research engineering on two ANR projects about modular and distributed scientific visualization**, Laboratoire d'Informatique Fondamentale d'Orléans.

### Teaching Experience

- 2017 **Advanced Algorithms: practical work**, ENSIMAG, Univ. Grenoble Alpes.
- 2015 – 2016 **Introduction to programming and algorithms: Lecture, directed exercises and practical work**, IM<sup>2</sup>AG, Univ. Grenoble Alpes.
- 2014 **Office automation**, Pharmacy Faculty, Univ. Grenoble Alpes.
- 2012 – 2014 **Information technology tutoring**, University Institute of Technology of Orléans.

### Miscellaneous Experience

- 2014, 2016 **AI contest organization: Topic, network server and client library design**, University Institute of Technology of Orléans.

### Educational Background

- 2012 – 2014 **Master's degree in computer science**, *University of Orléans*.
- 2011 – 2012 **Bachelor of Science in computer science**, *Université d'Orléans*.
- 2009 – 2011 **Two-year university degree in information technology**, *University Institute of Technology of Orléans*.

### Scientific Publications

- 2017 Pierre-François Dutot, Yiannis Georgiou, David Glessner, Laurent Lefèvre, Millian Poquet, and Issam Rais, **Towards Energy Budget Control in HPC**, In *17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid'2017)*.
- 2016 Pierre-François Dutot, Michael Mercier, Millian Poquet, and Olivier Richard, **Batsim: a Realistic Language-Independent Resources and Jobs Management Systems Simulator**, In *20th Workshop on Job Scheduling Strategies for Parallel Processing (JSSPP'2016)*.
- 2015 Pierre-François Dutot, Millian Poquet, and Denis Trystram, **Communication models insights meet simulations**, In *13th International Workshop on Algorithms, Models and Tools for Parallel Computing on Heterogeneous Platforms (HeteroPar'2015)*.
- 2014 Sébastien Limet, Millian Poquet, and Sophie Robert, **Modulight: A framework for efficient dynamic interactive scientific visualization**, In *Proceedings of the International Conference on Computational Science (ICCS'2014)*.

### Specific IT Skills

- Languages Advanced C++, Python, C, D, bash, Java, Prolog, Erlang, Go...
- Reproducibility Kameleon, Jupyter/R notebooks, SimGrid, R, workflow descriptions...
- Parallel Prog. MPI, OpenMP, CUDA, AVX