

Clément MOMMESSIN
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27 years old

EDUCATION:

- Since 2017 – Ph. D. in Computer Sciences: Efficient Management of Resources in the Internet of Things – Univ. Grenoble Alpes, CNRS, INRIA, Grenoble INP, LIG, France.
- 2014 - 2016 – Masters Degree in Informatics (MosIG track), option Parallel, Distributed and Embedded Systems – Univ. Grenoble Alpes and Grenoble INP, France.
- 2011 - 2014 – Bachelors Degree in Maths and Computer Sciences, 1st and 2nd years in International track – Univ. Grenoble Alpes, France.
- 2011 – Baccalauréat Scientifique, equivalent A levels, specialized in Mathematics – Chambéry, France.

PROFESSIONAL EXPERIENCES:

- January - June 2017 – Research aide contract, Argonne National Laboratory, MCS division
~> Development of a feature for automatic data filtering for in situ High Performance Computing workflows
~> Writing and submission of a scientific paper (IEEE Cluster 2017)
- October - December 2016 – Fixed-term contract, INRIA Grenoble, team DATAMOVE
~> Scheduling on heterogeneous platforms for High Performance Computing
~> Writing and submission of a scientific paper (EuroPar 2017)
- End of Masters Internship 2016 – Scheduling on heterogeneous platforms for High Performance Computing, INRIA Grenoble, team DATAMOVE.
~> Study and design of approximation algorithms for scheduling applications on parallel and hybrid platforms.
~> Construction of a benchmark for the comparison of approximation algorithms.

LANGUAGES AND COMPUTER SCIENCES:

French: mother tongue; English: fluent; Spanish: basic knowledge.
Programming languages: C/C++, Python, Nix, R, Java, Matlab, Ada, OCaml.

MISCELLANEOUS:

Reading novels, playing mathematical games, doing and solving puzzles.
Sports: Cycling, hiking, playing tennis.
Dance: Rock, Lindy Hop, Charleston.

TEACHING:

- 2019 - 2020 – IUT 2, Univ. Grenoble Alpes, France (88h)
~> *Computer Architecture and Assembly*, tutorials/practicals, undergraduate, 48h.
~> *Algorithmic and ADA programming*, lectures/tutorials/practicals, undergrad., 40h.
- 2017 - 2019 – IUT 1, Univ. Grenoble Alpes, France (104h)
~> *Algorithmic and Programming*, tutorials/practicals, undergraduate, 60h.
~> *Algorithmic and Web Development*, tutorials/practicals, undergraduate, 44h.

STUDENT SUPERVISION:

- 2019 – Mohammed Almarakby, *Two-Agents Job Scheduling on a Single Machine*, M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
Co-supervision with Vincent Fagnon and Denis Trystram.
- 2019 – Anderson da Silva, *Job Allocation in a Distributed Private Cloud*, M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
Co-supervision with Denis Trystram.
- 2019 – Aleksandr Danilin, *Resource Availability Prediction in a Distributed Private Cloud*, M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
Co-supervision with Denis Trystram.
- 2018 – Ning Tang, *Big Data Driven Temperature Control of Intelligent Heaters*, M.Sc student, MoSIG, Univ. Grenoble Alpes, France.
Co-supervision with Danilo Carastan-Santos, Giorgio Lucarelli and Denis Trystram.

SCIENTIFIC PUBLICATIONS:

- A. Bauskar, A. da Silva, A. Lebre, C. Mommessin, P. Neyron, Y. Ngoko, Y. Ricordel, D. Trystram, A. Van Kempen. “*Investigating Placement Challenges in Edge Infrastructures through a Common Simulator*”. SBAC-PAD, 2020.
- O. Beaumont, L.-C. Canon, L. Eyraud-Dubois, G. Lucarelli, L. Marchal, C. Mommessin, B. Simon, D. Trystram. “*Scheduling on Two Types of Resources: a Survey*”. In ACM Computing Surveys, 53 (3), 2020.
- M. Amaris, G. Lucarelli, C. Mommessin, D. Trystram. “*Generic Algorithms for Scheduling Applications on Heterogeneous Platforms*”. In Concurrency and Computation: Practice and Experience, 31 (15), 2019.
- M. Amaris, G. Lucarelli, C. Mommessin, D. Trystram. “*Generic Algorithms for Scheduling Applications on Hybrid Multi-Core Machines*”. In Euro-Par, pages 220-231, Sept. 2017.
- C. Mommessin, M. Dreher, B. Raffin, T. Peterka. “*Automatic Data Filtering for In Situ Workflows*”. In IEEE Cluster, pages 370-378, Aug. 2017.