

Hadrien Croubois

PhD Student and Scientist Consultant

Contact

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<https://github.com/Amxx> 📄

Languages

French native

English fluent

Japanese notions

Spanish notions

Computer Skills

C/C++, Python, OCaml </>

HTML5/CSS, PHP 📄

Javascript (jQuery) 📄

PostgreSQL, SPARQL 📄

Solidity & Blochains 📄

Usage of \LaTeX and GNU/Linux 📄

Hobbies

Trekking, Mountaineering 🌲
Climbing, Skiing

Cinema, Photography 📷

Architecture 🏠

Travelling 🌍

Experience

- Since 2017 **Scientist Consultant** iExec, Lyon, France
Algorithm & Blockchain scientific consultant in charge of the design and evaluation of the Proof-of-Contribution algorithms.
- 2014–2015 **Research scholar** Argonne National Laboratory, Illinois, USA
Soft error detection for resiliency management at workflow level.
- Feb.–Jul. 2014 **Research internship.** LIRIS, Lyon, France
Realistic real time rendering for mobile augmented reality.
- May–Aug. 2013 **Research internship.** JFLI - Tokyo University, Tokyo, Japan
LibGridRPCDM, a GridRPC compliant meta-datamanager for the grid.
- Oct.–Dec. 2012 **Software development.** École Normale Supérieure de Lyon, Lyon, France
Development of “MDMA”, an augmented reality software for gestures based MIDI device and software control. <http://graa1.ens-lyon.fr/mdma>
- Jun.–Jul. 2012 **Research internship.** IXXI, Lyon France
Study of twitter dynamic topology graph in relation with the use of Hashtags.

Diploma and distinctions

- since 2015 **PhD** in Computer Science École Normale Supérieure de Lyon, Lyon, France
Topic: Autonomous workflow management systems on cloud
Laboratory: Laboratoire de l'Informatique du Parallélisme (LIP)
Advisor: Eddy Caron
- 2013–2014 **Master 2** in Computer Science Université Claude Bernard Lyon I, Lyon, France
Speciality: Image
- Mar. 2014 **TOEIC**
955/990, International Professional Proficiency
- 2012–2013 **Master 1** in Computer Science École Normale Supérieure de Lyon, Lyon, France
Speciality: Theoretical Computer Science
- 2011–2012 **Licence** in Computer Science École Normale Supérieure de Lyon, Lyon, France
Speciality: Theoretical Computer Science
- 2009–2011 **“Classes préparatoires”** in Science Lycée St-Louis, Paris, France
Speciality: Mathematics & Computer Science
- Apr. 2010 **Honourable Mention** in the French national selection for IPhO
International Physics Olympiads
- Jun. 2009 **Scientific high school diploma** summa cum laude LFJT, Tokyo, Japan
Speciality: Mathematics

Publications

- A Cloud-aware Autonomous Workflow Engine and Its Application to Gene Regulatory Networks Inference
Bonnaffoux, Arnaud, Eddy Caron, Hadrien Croubois, and Olivier Gandrillon
Proceedings of the 8th International Conference on Cloud Computing and Services Science - Volume 1: CLOSER, 2018
- Communication Aware task Placement for Workflow Scheduling on DaaS-Based Cloud
Croubois, H. and E. Caron
2017 IEEE International Parallel and Distributed Processing Symposium Workshops (IPDPSW), 2017
- Self-Adaptive Density Estimation of Particle Data
Peterka, T., H. Croubois, N. Li, E. Rangel, and F. Cappello
SIAM Journal on Scientific Computing 38.5 (2016) S646–S666. 2016
- Étude pour la conception d'une architecture autonome et collaborative de gestion de workflow sur infrastructure dynamique
Croubois, Hadrien
Compas, poster session, 2016
- Standardized Multi-protocol Data Management for Grid and Cloud GridRPC Frameworks
Caniou, Yves, Hadrien Croubois, and Gaël Le Mahec
Data Management in Cloud, Grid and P2P Systems, 2014, Cham
- Fast Image Based Lighting for Mobile Realistic AR
Croubois, Hadrien, Jean-Philippe Farrugia, and Jean-Claude lehl
Tech. rep., 2014

Teaching

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| 2016–2017 | Teaching Assistant
Image (M1), Distributed systems (M1) | École Normale Supérieure de Lyon, Lyon, France |
| Dec. 2016 | Intern supervision
Supervision of a high school student during his internship. | École Normale Supérieure de Lyon, Lyon, France |
| 2015–2016 | Teaching Assistant
System architecture (L3), Parallel algorithms (M1), Distributed systems (M1) | École Normale Supérieure de Lyon, Lyon, France |
| 2013–2014 | Pascal workclasses in “Classes préparatoires”
Introduction to algorithms for economics students (ECS) | Lycée Saint-Just, Lyon France |
| 2012–2013 | Camlight workclasses for “Classes préparatoires”
Advanced introduction to algorithms for science students (MP) | Lycée du parc, Lyon France |