Hadrien **Croubois**

PhD - Research Engineer

Contact

15 rue Delandine
69002 Lyon, France 🏠

+33 6 24 23 75 53 📱

hadrien.croubois@gmail.com ✉

hadrien@openzeppelin.com ✉

hadriencroubois.com 🖥

https://github.com/Amxx

Languages

French   native

English   fluent

Japanese   notions

Spanish   notions

Computer Skills

Solidity, Yul, Cairo ₿

Node.js, Javascript, Typescript </>
React, C/C++, Rust, Python

Usage of LaTeX and GNU/Linux 🐧

Hobbies

Trekking, Mountaineering 🌲
Climbing, Skiing

Cinema, Photography 📷

Architecture 🏛

Travelling 🌐

Experience

Since 2021	**Smart contract engineer**	OpenZeppelin

Senior developper of smart contracts and tooling library under the product branch of OpenZeppelin.

Since 2021 · **Independant contractor** · Working remotly from Lyon, France

2018–2020 · **Research Engineer** · iExec, Lyon, France
In charge of hybrid on-chain/off-chain consensus for the trustless certification of large scale distributed platforms.

2017–2018 · **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.

Jun.–Jul. 2012 · **Research internship.** · IXXI, Lyon France
Study of twitter dynamic topology graph in relation with the use of Hashtags.

Diploma and distinctions

2015 – 2018 · **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

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

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 autonomique 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 Iehl
Tech. rep., 2014

Teaching

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