

Gauthier VORON

Postdoctoral Research Associate

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My research interests revolve around performance and design of distributed or concurrent systems. More specifically, my research focuses on *High performance distributed consensus*, *Low overhead system virtualization* and *Memory topology and NUMA architectures*. My aim is to address lacks of efficiency in complete systems by scrutinizing them at every level of abstraction from algorithms to hardware.

Formation

2018-	Postdoc	High Performance BFT Consensus for Blockchains University of Sydney
2014-2018	Ph.D.	Efficient Virtualization of NUMA Architectures LIP6, Sorbonne Univeristé & Télécom SudParis
2012-2014	Master	Operating Systems and Distributed Software Sorbonne Université

Research

PUBLICATIONS

- 2019 **Using differential execution analysis to identify thread interference**
Mohamed Said Mosli Bouksiaa, François Trahay, Alexis Lescouet, Gauthier Voron, Rémi Dulong
Amina Guermouche, Élisabeth Brunet, Gaël Thomas
In *IEEE Transactions on Parallel and Distributed Systems*
30.12 (2019): 2866-2878
- 2018 **Efficient Virtualization of NUMA Architectures**
Gauthier Voron
PhD Thesis advised by by Gaël Thomas and Pierre Sens
- 2017 **An interface to implement NUMA policies in the Xen hypervisor**
Gauthier Voron, Gaël Thomas, Vivien Quéma, Pierre Sens
In *Proceedings of the EuroSys European Conference on Computer Systems, EuroSys'17*
page 14, Belgrade, Serbia, 2017
- 2015 **Optimisation mémoire dans une architecture NUMA : comparaison des gains entre natif et virtualisé**
Gauthier Voron, Gaël Thomas, Pierre Sens, Vivien Quéma
In *Proceedings of the Conférence en Parallélisme, Architecture et Système, COMPAS'15*
page 10, Lille, France, 2015, **Best paper award**

REVIEWING

- 2019 Member of the ICDCS 2019 program commitee
- 2016 Member of the Eurosys 2016 shadow program commitee

Teaching

2017-2019	Multicore Kernels and Virtualization
2015-2017	Introduction to Operating Systems
2016	C programming and data structures
2015	Introduction to Relational Databases

Reference List

Vincent Gramoli	Postdoc supervisor	<code>vincent.gramoli@sydney.edu.au</code>
Gaël Thomas	PhD advisor	<code>gael.thomas@telecom-sudparis.eu</code>
Julien Sopena	Unit coordinator	<code>julien.sopena@lip6.fr</code>