

# Julien Pagès

PhD, Computer Science

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🌐 <http://www.julien-pages.com>

🐙 <https://github.com/jpages>

## Main skills

- Software Development
- Compilers
- Research and Development

## Work experience

- 2017-... **Postdoctoral fellow**, *Université de Montréal*, Canada, Research and development on a new just-in-time compiler for Python.  
Compilers, Just-In-Time Compilation, Optimizations, Assembly, Python
- 2016-2017 **Postdoctoral fellow**, *Université de Strasbourg and INRIA*, Strasbourg, France, Research and development on the compilation of JavaScript for multicore architectures.  
Compilers, JavaScript, optimizations, parallelism, LLVM
- Summer 2012 **Internship**, *Naturaliance*, *Montpellier*, France, Development of an enterprise ressources planning software.  
Web development, JavaScript, PHP, HTML, Databases, SQL
- Spring 2010 **Internship**, *Administration*, Avignon, France.  
System and network administration (Linux)

## Education

### PhD

- 2013-2016 **Doctor of Philosophy, computer science**, *Université de Montpellier and CNRS*, A virtual machine for an object-oriented language in multiple inheritance, Prof. Roland Ducournau.  
Compilers, Object-Oriented languages and programming, Optimizations

### Master

- 2011-2013 **Master's degree, software architecture and engineering**, *Université de Montpellier and CNRS*, Study of existing Java Virtual Machines and adaptation to perfect hashing.  
Software Architecture, Compilers, Object-Oriented Programming, Java Virtual Machines

### Bachelor

- 2010-2011 **Bachelor degree, computer science**, *Université de Montpellier*.  
2008-2010 **Two-year technical degree, computer science**, *Université de Grenoble*.

## Skills

- General Software development, compilers, low-level programming, research and development  
Languages Java, C, C++, Python, x86\_64 Assembly, C#, PHP, JavaScript, Ruby, Lisp, SQL

Other skills Systems, Linux, network programming

### Languages

French Mother tongue

English Good, written and spoken

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## University Teaching

Teaching assistant (for 415h) in Universities of Montpellier and Strasbourg

Algorithmic and programming in C and Lisp

Object-Oriented programming in Java and C++

Databases and SQL

Network architecture and network programming

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## Miscellaneous

Hobbies Tennis, running, bike, travels, cinema, photography

2018 Global Game Jam in Montréal, video games development

2018 Qualification MCF section 27: French requirement to be a university professor

2016 Program committee of ECOOP Doctoral Symposium

2013-2017 Supervising undergraduate and master students for some research projects

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## Publications

Roland Ducournau, Julien Pagès, Jean Privat, and Colin Vidal. Genericity and (Co)variance, an Empirical Study. Research report, LIRMM ; Université de Montpellier, 2014.

Roland Ducournau, Julien Pagès, Colin Vidal, and Jean Privat. Preexistence revisited. In *ICOOOLPS workshop 2015, Prague, Czech Republic, ICOOOLPS '15*, pages 1–1. ACM, 2015.

Roland Ducournau, Julien Pagès, and Jean Privat. Preexistence and concrete type analysis in the context of multiple inheritance. In *PPPJ conference 2016, Lugano, Switzerland*, pages 10:1–10:12, 2016.

Julien Pagès. A virtual machine for testing compilation/recompilation protocols in multiple inheritance. In *ECOOP Doctoral Symposium 2015, Prague, Czech Republic*, pages 1–10, 2015.

Julien Pagès. Étude de machines virtuelles java existantes et adaptation au hachage parfait. Mémoire de master 2 recherche, LIRMM - Université de Montpellier, 2013.

Julien Pagès. *Une machine virtuelle en héritage multiple basée sur le hachage parfait*. Thèse de doctorat, LIRMM - Université de Montpellier, 2016.

Julien Pagès and Marc Feeley. Twopy: A just-in-time compiler for python based on code specialization. In *VMIL 2018 workshop, Boston, MA, USA*, page 1, 2018.

Manuel Selva, Julien Pagès, and Philippe Clauss. Polyhedral optimization for javascript: The challenges. In *IMPACT workshop 2018, Manchester, United Kingdom*, pages 1–12, 2018.