

Laurent BADUEL

French, 34 years old: born on January, 6th 1979

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Objective

Research & Development career in Software Engineering

Skills

Languages: Java, C/C++, FORTRAN, Scheme, Perl, Python, Unix shells – XML, BPEL, BPMN

Development & Collaborative Tools: Eclipse, NetBeans, Visual Studio, CVS, Subversion, GForge, Wiki

Distributed and Grid Technologies: J2EE, RPC/RMI, Message Passing (MPI), Peer-to-peer (Jxta), Reservation and submission tools (OAR, PBS, LSF, Sun Grid Engine), WebSphere Applications Server

Operating Systems: Advanced user of Windows, Unix & Linux

Information dissemination: Redaction (and peer-reviewing) of scientific papers for international journals, conferences, and books, deliverables for European projects, patents, and software manuals.

Experiences

2010 – ... **Project Manager**

Total – Scientific & Technical Center, France

- Geosciences applications
- Project management (estimate, plan, report, control, decide)
- Wide language and technology area (Java, C, FORTRAN, C#, Oracle, PostgreSQL, etc.)

2008 – 09 **Researcher Engineer**

IBM Tokyo Research Laboratory, Japan

- Business Service Research (Global Technology Services, Cloud Computing)
- Prototyping workflow engine extension in Tivoli Asset Management product brand
- Integration with cloud provisioning software

2005 – 08 **Associate Researcher**

Tokyo Institute of Technology, Satoshi Matsuoka's lab, Japan

- Conception, development, and evaluation of a grid monitoring system
- Peer-to-peer networking (Jxta), "Directed" Gossip protocols
- Autonomic Computing

2001 – 04 **Junior Researcher**

University of Nice Sophia-Antipolis / National Institute of Computer Science (INRIA), France

- Development and maintenance of a Java grid middleware: *ProActive*
- Development and evaluation of software solving 3D Maxwell equations: *Jem3D*

Education

- 2001 – 05 **Ph.D in Computer Science: “Typed Groups for the Grid”**
University of Nice Sophia-Antipolis / National Institute of Computer Science (INRIA)
- 2000 – 01 **Master in Computer Science: Networks and Distributed Systems**
University of Nice Sophia-Antipolis

Internships

- 2001 **National Institute of Computer Science (INRIA)**, in Sophia-Antipolis, France
6 months Group Communication for Mobile Active Objects
- 2000 **ALCATEL Space Industries**, in Mandelieu, France
4 months Logs Gathering and Analysis on Multi-Processors Computers

Relevant Publications

- A Peer-to-Peer Infrastructure for Autonomous Grid Monitoring**, Laurent Baduel and Satoshi Matsuoka, *Hot Topics in Peer-to-Peer Systems at International Parallel and Distributed Processing Symposium*, 2007
- Asynchronous Typed Object Groups for Grid Programming**, Laurent Baduel, Françoise Baude, and Denis Caromel, *International Journal of Parallel Programming*, 2007
- Object-Oriented SPMD**, Laurent Baduel, Françoise Baude, and Denis Caromel, *International Symposium on Cluster Computing and the Grid*, 2005
- A Parallel Object-Oriented Application for 3D Electromagnetism**, Laurent Baduel, Françoise Baude, Denis Caromel, Christian Delbé, Saïd El Kasmi, Nicolas Gama, and Stéphane Lanteri, *International Parallel and Distributed Processing Symposium*, 2004
- Typed Groups for the Grid**, Laurent Baduel, *PhD Thesis, University of Nice Sophia-Antipolis*, 2005

Teaching at University of Nice Sophia-Antipolis, Institute of Technology of Nice Côte d'Azur, Temple University

Master degree: Distributed programming and software engineering 16h - Software architecture and distributed computing 10h.

Bachelor degree: Computer architecture & assembler 48h - Operating systems 48h - C language & tools 40h - Java language 52h.

Undergraduate: Unix Systems 33h - Internet 42h - Office automation 27h - Algorithmic and Programming 30h - Computer Science and Information Systems 96h

Supervised student research works:

- Conception of a generic API for reliable multicast protocols - *Master degree*
- Web services systems for geographical information - *Master degree*
- Data bases 'Planet' for studies scheduling - *Master degree*
- 3D engines: state of the art (libraries, algorithms, tools, etc.) - *Bachelor degree*

Languages

French mother tongue

English fluent (redaction of documents for international conferences, journals, books, etc.)

Japanese *speaking:* low, *writing / reading:* hiragana, katakana, 300 kanjis