

Sorbonnes Universités
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Christoph Dürr

senior researcher

Research areas

- algorithms scheduling, algorithmic game theory, online algorithms, mathematical programming
- former areas cellular automata, discrete tomography, quantum computing

Education

- 2005 **Habilitation**, *University Paris-Sud, Orsay*.
Title: Discrete tomography, quantum computation and scheduling
Jury: Philippe Jorrand, Jacques Mazoyer, Jiri Sgall, Peter Brucker, Pierre Fraigniaud, Pascal Koiran, Christophe Picouleau.
- 1994–1997 **Doctor in Computer Science**, *University Paris-Sud, Orsay*.
Title: Quantum cellular automata
Advisor: Miklos Santha
Jury: Tom Toffoli, Claire Kenyon, Jean-Pierre Jouannaud, Artur Ekert.
- 1993–1994 **Master in Computer Science**, *University Paris-Sud*.
Title: "Three marriages and no burial"
Advisor: Michel de Rougemont
- 1991–1994 **Undergraduate in Computer Science**, *University Paris-Sud*.
- 1987–1990 **State-certified Computer Scientist**, *Akademie für Datenverarbeitung, Böblingen, Germany*.

Awards

- 2007–now **participates regularly in programming contests such as Google Code Jam.**
- 2010 **senior price at EURO/ROADEF challenge**, *I contributed at the beginning, but the price is mainly due to D. Savourey, V. Jost and N. Touati.*
- 2009 **best paper award in ESA.**
- 2004 **best paper award in ICALP track A.**

Professional experience

- 2011–now **senior researcher at the CNRS**, *Université Pierre et Marie Curie*.

- 2007–2014 **Part time teaching assistant at the Ecole Polytechnique**, *Ecole Polytechnique*.
- 2005–2011 **junior researcher at the CNRS**, *Ecole Polytechnique, Palaiseau*.
- 2004–2005 **Sabbatical at the CNRS**, *Univ. Paris-Sud*.
- 1999–2004 **Assistant professor at IUT d’Orsay**, *Univ. Paris-Sud*.
- 1998–1999 **Postdoc**, *Hebrew University of Jerusalem*.
- 1997–1998 **Postdoc**, *International Computer Science Institute, Berkeley*.
- 1994–1997 **Teaching assistant at IUT d’Orsay**, *Univ. Paris-Sud*.
- 1987–1993 **Software development and hotline**, *several places*, including 2 years fulltime.

Teaching

- 2016–now **Master**, *Dynamic Programming, local search*, Université Pierre et Marie Curie.
- 2016–now **Master**, *Optimization*, Ecole Centrale.
- since 2002 **Master course**, *on quantum computation, then on scheduling and today on local search*, MPRI 2-24-2.
- 2010–2015 **Constraint programming and mathematical programming**, *INF580*, Ecole Polytechnique, course and exercises.
- since 2007 **preparation to programming contests**, Ecole Polytechnique, ENS Cachan, Ecole Centrale.
- 2006–2007 **TA in Java programming**, *INF421*.
- 1999–2004 **course on networking, TA in C++, Java, Human-Interfaces**, *IUT d’Orsay*.
- 1994–1997 **TA in Cobol, programming projects in C++ and OSF/Motif**, *IUT d’Orsay*.

Invited Talks

- 2014 **Gestion de tampon en ligne: techniques centrales en algorithmique en ligne**, *congrès annuel de la Société française de recherche opérationnelle et d’aide à la décision*, (ROADEF).
- 2014 **A survey on discrete tomography**, *Conference of the European Chapter on Combinatorial Optimization*, (ECCO).

Students

- 2016–now **Finn Völkel**, *PhD*, Optimization and testing, with Michel Habib.
- 2016–now **Jin Shendan**, *PhD*, Online Algorithms with recourse, with Spyros Angelopoulos.
- 2014 **Mathieu Schmitt**, *M2*, Lift and project applied on LP models for scheduling problems.
- 2011–2014 **Oscar Vasquez**, *PhD*, Job scheduling to balance energy minimization with quality of serviceL optimization and game theory.
- 2006–2009 **Nguyen Kim Thang**, *PhD*, Pure Equilibria: Existence, Inefficiency and Online Auction.
- 2007 **Adriana Lopez**, *MIT undergraduate*, on scheduling to minimize energy.

- 2005–2008 **Mathilde Hurand**, *PhD*, A contribution to optimization for Scheduling and some other problems.
- 2005 **Do Phan Thuan**, *Master*, Quantum algorithms for flow problems.
- 2004 **Thibault Lafaye**, *DEA*.
- 2004 **Raghav Kulkarni**, undergraduate *du Chennai Mathematical Institute et Abhinav Bahadir (IIT, Bombay)*, on the quantum query complexity of computational geometry problems.
- 2003 **Thomas Ravary**, *magistère de Maths*, on a scheduling algorithm.

Scientific duties

organization committee for QIP'06, MISTA'07, CTW'09, STACS'12, SEA'15.

program committee for STACS'06, Renpar'07, WAOA'09, MAPSP'11, STACS'11, ESA'15.

guest editor for three special editions in Theory of Computing Systems (selected papers from STACS)

participation in many PhD and habilitation jurys

PhD referee for Nina Runge (2008), Marc Kaplan (2009), Antonios Antoniadis (2012), Christian Konrad (2013), Xavier Zeitoun (2013), Giorgios Stamoulis (2013), Thomas Pradeau (2014), Marc Renault (2014) habilitation of Julia Kempe (2010), Fethi Jarray (2014).

Administrative duties

- 2013 manager of a grant on quantum information and communication PEPS ICQ
- every year serving in 1 or 2 recruiting committees
- since 2011 Head of the Operation Research team