

# Alban Quadrat

Alban QUADRAT, born on April 7<sup>th</sup>, 1973, Chesnay (78), French.

**Address:** Inria Paris, Ouragan project-team, Institut de Mathématiques, de Jussieu-Paris Rive Gauche, Sorbonne Université, 4 Place Jussieu, 75252 Paris Cedex 05, France.

**Tel:** 06-72-05-41-06    **Email:** [alban.quadrat@inria.fr](mailto:alban.quadrat@inria.fr).

**Web page:** <https://who.rocq.inria.fr/Alban.Quadrat/>.

**Professional activity:** Senior Researcher, Inria Paris, 2019- –.

**Work Experience:** Senior Researcher at Inria Lille - Nord Europe (2015-2018), scientific head of the GAIA team, Junior Researcher at Inria Saclay - Ile de France (2010-2015), Junior Researcher at Inria Sophia Antipolis - Méditerranée (2001-2010), Postdoctorate at the Department of Pure Mathematics at the University of Leeds (Marie Curie Fellowship, 2000-2001), Military service, Scientifique du contingent, LRBA, DGA, Vernon (1999-2000).

**Education:** Habilitation in Mathematics and their Interactions, University of Nice (2010), PhD thesis in Mathematics, Ecole Nationale des Ponts et Chaussées, CERMICS (1999).

**Research themes:** Mathematical systems theory, control theory, computer algebra, non commutative algebra (module theory, homological algebra). My works are at the interface between control theory, computer algebra and constructive (non) commutative algebra.

**Publications:** 25 papers published in international journals (9 as single author), 10 book chapters and 68 papers in international conferences.

**Invitations:** Austria, Canada, Estonia, France, Germany, Italy, Ireland, Israel, Netherlands, Poland, Spain, South Africa, South Korea, Switzerland, Tunisia, United Kingdom, USA, . . .

- Semi-plenary lecturer at the Colombian Congress of Mathematics, 2013.
- Semi-plenary lecturer at the the Netherlands Congress of Mathematicians, 2009.
- Semi-plenary lecturer at the Eighteenth International Symposium on Mathematical Theory of Networks and Systems, Virginia Tech (USA), 2008.

**Supervision:** G. Younes (PhD), G. Rance (PhD), Y. Bouzidi (Postdoc), G. Regensburger (Postdoc), T. Cluzeau (Postdoc), A. Fabiańska (PhD), D. Robertz (PhD), 6 Master students.

**Software development (Maple, Mathematica, GAP):** OreModules, OreMorphisms, Stafford, QuillenSuslin, PurityFiltration, AbelianSystems, OreAlgebraicAnalysis.

**Collective responsibilities :** Associate editor of *Multidimensional Systems and Signal Processing* (MSSP, Springer) since 2007, member of the Technical Committee Linear Systems of the International Federation of Automatic Control (IFAC), scientific committee of Journées Nationales de Calcul Formel (2010-2015), co-organiser of Journées Nationales de Calcul Formel (2017-2018), local leader of the ANR MSDOS (2014-2017), project leader of a research contract with SAGEM (2013), project leader of a PHC Procope (2006-2007), project leader of a PHC Parrot (2013-2014), co-organiser of 4 mini-workshops (Oberwolfach 2010 and 2013, CIRM 2011 and 2016), co-organiser of invited sessions (MTNS 2016, MTNS 2014, SSSC 2013, nDS 2013, MTNS 2010, MTNS 2006, TDS 2003) and summer schools (Otzenhausen 2003, AACA 2009).