

**PAOLO BRAVI**  
Curriculum Vitae ai fini della pubblicazione

Roma, February 15, 2018

**Part I – General Information**

Full Name	Paolo BRAVI
Date of Birth	December 12, 1974

**Part II – Education**

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	1997	Università di Bologna	110/110 cum laude
PhD	2004	Università La Sapienza	

**Part III – Appointments**

Start	End	Institution	Position
2004	2005	Bergische Universität Wuppertal (Germany)	Marie-Curie RTN Post-Doc
2005	2007	Università di Padova	Borsista post-dottorato
2008	2009	Université Grenoble (France)	Marie-Curie IEF Post-Doc
2009	2012	Università La Sapienza	Assegnista di ricerca
2012	-	Università La Sapienza	Ricercatore universitario

**Part IV – Teaching experience**

Year	Institution	Lecture/Course
2000/01	Università La Sapienza	Geometria, Ing. Telecomunicazioni (tutor)
2001/02	Università La Sapienza	Geometria, Ing. Telecomunicazioni (tutor)
2001/02	Università La Sapienza	Algebra, Matematica (tutor)
2002/03	Università La Sapienza	Geometria, Ing. Telecomunicazioni (tutor)
2002/03	Università La Sapienza	Geo. Analitica, Matematica (tutor)
2003/04	Università La Sapienza	Geometria, Ing. Telecomunicazioni (tutor)
2003/04	Università La Sapienza	Algebra, Matematica (tutor)
2006/07	Università di Padova	Matematica 2, Ingegneria (collaboratore)
2007/08	Università di Camerino	Matematica, Architettura (docente a contratto)
2009/10	Università La Sapienza	Geometria, Fisica (tutor)
2011/12	Università La Sapienza	Algebra Lineare, Matematica (tutor)
2012/13	Università La Sapienza	Geometria, Ing. Energetica (docente)

2013/14	Università La Sapienza	Geometria, Ing. Aerospaziale (docente)
2014/15	Università La Sapienza	Geometria, Ing. Aerospaziale (docente)
2015/16	Università La Sapienza	Geometria, Ing. Aerospaziale (docente)
2016/17	Università La Sapienza	Geometria, Ing. Aerospaziale (docente)
2017/18	Università La Sapienza	Ist. Geometria Sup., Matematica (docente)

## Part V - Society memberships, Awards and Honors

Year	Title
-	-

## Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program
2008/09	Smoothness of the IHS...	Marie-Curie IEF 2007/13 (PI)
2011/13	Teoria di Lie e generalizzazioni...	PRIN 2009 (I)
2013/16	Perspectives in Lie Theory	FIRB 2012 (I)
2013/16	Strutture algebriche e geometriche...	Sapienza ATENEO 2013 (PI)
2014/17	Spazi di Moduli e Teoria di Lie	PRIN 2012 (I)
2014/17	Strutture geometriche e algebriche...	Sapienza ATENEO 2014 (I)
2015/18	Un approccio algebrico...	Sapienza ATENEO 2015 (I)
2016/19	Spazi di moduli e teoria di Lie...	Sapienza ATENEO 2016 (I)
2017/20	Spazi simmetrici...	Sapienza ATENEO 2017 (I)

## Part VII – Research Activities

Keywords	Brief Description
Lie Theory	Algebraic transformation groups: spherical varieties, symmetric spaces, invariants, moduli spaces.
Representation Theory	
Algebraic Groups	
Spherical varieties	
Symmetric spaces	

## Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base
Papers [international]	16	MatSciNet, Scopus, WebOfScience

Total Impact factor	8.333 (11 papers on WebOfScience Core Collection until 2016)
Average Impact factor per Product	0.758 (11 papers on WebOfScience Core Collection until 2016)
Total Citations	131 (14 papers on Scopus)
Average Citations per Product	9.357 (14 papers on Scopus)
Hirsch (H) index	9 (on Scopus)
Normalized H index*	0.643 (9/14)

\*H index divided by the academic seniority.

## Part IX– Selected Publications

List of the publications selected for the evaluation.

1. with J. Gandini, Regular functions on spherical nilpotent orbits in complex symmetric pairs: classical Hermitian cases, *Kyoto Journal of Mathematics*, accepted for publication on October 30, 2017. arxiv:1612.01300 .
2. with R. Chirivì, J. Gandini, Regular functions on spherical nilpotent orbits in complex symmetric pairs: classical non-Hermitian cases, *Kyoto Journal of Mathematics* 57 (2017), 717-787. Citations: 1 on WebOfScience.
3. with R. Chirivì, J. Gandini, A. Maffei, Standard monomial theory for wonderful varieties, *Algebras and Representation Theory* 19 (2016), 489-509. Journal IF: 0.621.
4. with B. Van Steirteghem, The moduli scheme of affine spherical varieties with a free weight monoid, *International Mathematics Research Notices* 2016 (2016), 4544-4587. Journal IF: 0.924. Citations: 2 on Scopus.
5. with J. Gandini, A. Maffei, Projective normality of model varieties and related results, *Representation Theory* 20 (2016), 39-93. Journal IF: 0.731. Citations: 2 on Scopus.
6. with G. Pezzini, The spherical systems of the wonderful reductive subgroups, *Journal of Lie Theory* 25 (2015), 105-123. Journal IF: 0.440. Citations: 11 on Scopus.
7. with G. Pezzini, Primitive wonderful varieties, *Mathematische Zeitschrift* 282 (2016), 1067-1096. Journal IF: 0.738. Citations: 11 on WebOfScience. *“Highly Cited Paper” on WebOfScience.*
8. with G. Pezzini, Wonderful subgroups of reductive groups and spherical systems, *Journal of Algebra* 409 (2014), 101-147. Journal IF: 0.599. Citations: 12 on WebOfScience.
9. Primitive spherical systems, *Transactions of the American Mathematical Society* 365 (2013), 361-407. Journal IF: 1.095. Citations: 10 on Scopus.

## Part X– Further Data

Other publication/pre-publications (not selected for the evaluation).

- with J. Gandini, Regular functions on spherical nilpotent orbits in complex symmetric pairs: exceptional cases, arxiv:1710.11468.
- with J. Gandini, A. Maffei, A. Ruzzi, Normality and non-normality of group compactifications in simple projective spaces, *Ann. Inst. Fourier (Grenoble)* 61 (2011), 2435-2461.
- Classification of spherical varieties, *Les cours du CIRM*, 1 no. 1: Actions hamiltoniennes : invariants et classification (2010), 99-111.
- with D. Luna, An introduction to wonderful varieties with many examples of type F4, *J. Algebra* 329 (2011), 4-51.
- with S. Cupit-Foutou, Classification of strict wonderful varieties, *Ann. Inst. Fourier (Grenoble)* 60 (2010), 641-681.
- with S. Cupit-Foutou, Equivariant deformations of the affine multicone over a flag variety, *Adv. Math.* 217 (2008), 2800-2821.
- Wonderful varieties of type E, *Represent. Theory* 11 (2007), 174-191.
- with G. Pezzini, Wonderful varieties of type D, *Represent. Theory* 9 (2005), 578-637.

- with A. Brini, Remarks on Invariant Geometric Calculus. Cayley-Grassmann Algebras and Geometric Clifford Algebras, Crapo, H. and Senato, D. (Eds), Algebraic Combinatorics and Computer Science. A Tribute to Gian-Carlo Rota, 129-150, Springer Italia, Milan, 2001.

Organizational activities.

- 2016, Nilpotent Orbits and Representation Theory, workshop, Scuola Normale Superiore, Pisa.
- 2015, Aspects of Lie theory, INdAM workshop, Rome.

Some invited talks/lectures.

- 2015, Combinatoria dei sistemi di radici sferiche, Terzo incontro di Combinatoria dei Sistemi di Radici, Cortona.
- 2014, The moduli scheme of affine spherical varieties with a free weight monoid, Institut C. Jordan Lyon.
- 2014, The real model orbit of type E8, Dipartimento di Matematica, Università di Bologna.
- 2013, The real model orbit of type E8, Emmy Noether Zentrum, Universitaet Erlangen-Nuernberg.
- 2013, La classificazione delle varietà sferiche, Dipartimento di Matematica, Università di Pisa.
- 2013, Luna's combinatorics, MFO Oberwolfach.
- 2011, La classificazione delle varietà magnifiche, Congresso UMI, Bologna.
- 2011, Some examples of invariant Hilbert schemes, colloque "Journée solstice d'été", Paris.
- 2010, Spherical systems and quotients, conference "Symmetric spaces and their generalizations", Levico Terme.
- 2010, Sulla normalità delle compattificazioni semplici di un gruppo aggiunto e oltre, Incontro nazionale di algebra moderna, INdAM Roma.
- 2009, Wonderful varieties and spherical orbits in simple projective spaces, "Invariant Hilbert schemes and wonderful varieties" workshop, Mathematisches Institut Basel.
- 2009, Wonderful varieties and spherical orbits in simple projective spaces, ETH Zurich.
- 2009, Classification of spherical varieties, lectures, "Actions hamiltoniennes : invariants et classification" Cours de formation doctorale CIRM (Luminy).
- 2009, Spherical orbits in simple projective spaces, Institut Camille Jordan Lyon.
- 2007, Equivariant deformations of the affine multicone over a flag variety, Mathematisches Institut Basel.
- 2005, Wonderful varieties, Mathematisches Institut, Universitaet Tuebingen.