

CURRICULUM VITAE ET STUDIORUM

CATERINA STOPPATO

Personal information

NAME	Caterina Stoppato
DATE AND PLACE OF BIRTH	born on November 14, 1982 in Florence, Italy
NATIONALITY	citizen of Italy and of the United States of America
FAMILY	married since 2010, one daughter born in 2018
E-MAIL	caterina.stoppato@unifi.it
WEBPAGE	https://people.dimai.unifi.it/stoppato/
AFFILIATION	Università di Firenze, DiMaI “U. Dini” Viale Morgagni 67/A, I-50134 Firenze, Italia

Habilitations

FIELD	Geometry and Algebra
VALID	September 18, 2018 to September 18, 2029, in Italy
TO ACCESS THE RANK OF	Full Professor

Current position

INSTITUTION	Università degli Studi di Firenze
POSITION	Associate Professor
SINCE	April 13, 2020

Research projects

PROGETTO UNIFI (CURRENT)	<i>Teoria delle funzioni ipercomplesse e applicazioni</i> Principal Investigator
FOE 2014 - MIUR (CURRENT)	<i>SUNRISE</i> Unit coordinator (P.I.: C. Giannelli)
PRIN 2022 - MIUR (CURRENT)	<i>Real and complex manifolds: geometry and holomorphic dynamics</i> Participant (Coord.: D. Angella, P.I.: F. Bracci)
FIRB 2012 - MIUR	<i>Differential Geometry and Geometric Function Theory</i> Principal Investigator
PRIN 2017 - MIUR	<i>Real and complex manifolds: topology, geometry and holomorphic dynamics</i> Participant (Coord.: D. Angella, P.I.: F. Bracci)
PRIN 2010-11 - MIUR	<i>Varietà reali e complesse: geometria, topologia e analisi armonica</i> Participant (Coord.: M. Peloso, P.I.: F. Ricci)
FIRB 2008 - MIUR	<i>Geometria Differenziale Complessa e Dinamica Olomorfa</i> Participant (Principal Investigator: F. Bracci)
PRIN 2007 - MIUR	<i>Proprietà geometriche delle varietà reali e complesse</i> Participant (P.I.: V. Ancona)
PRIN 2007 - MIUR	<i>Geometria Differenziale e Analisi Globale</i> Participant (Coord.: F. Podestà. P.I.: S. Salamon)

Assistant Professorships

INSTITUTION	POSITION	DATES
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Università degli Studi di Firenze
Assistant Professor (temporary)
February, 2016 - April, 2020

INSTITUTION	POSITION	DATES
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Istituto Nazionale di Alta Matematica “F. Severi”
Research Assistant Professor
May, 2014 - January, 2016

Postdoctoral experience

INSTITUTION	POSITION	DATES
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Istituto Nazionale di Alta Matematica “F. Severi”
postdoctoral research fellow, PI of the aforementioned project
May 2013 - April 2014

INSTITUTION	POSITION	DATES
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Università degli Studi di Milano
postdoctoral research fellow, with research funds
September 2011 - April 2013

INSTITUTION	POSITION	DATES
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Università Politecnica delle Marche
postdoctoral research fellow, adjunct professor
January - August 2011

INSTITUTION	AWARD	YEAR
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Università di Roma “Tor Vergata”
“Cuozzo” prize
2011

INSTITUTION	POSITION	DATES
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Accademia Nazionale dei Lincei
“Mino Bontempelli” research fellow
July - December 2010

INSTITUTION	POSITION	DATES
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Università degli Studi di Firenze
research fellow
March - June 2010

Research awards

INSTITUTION	NAME	YEAR
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Università di Roma “Tor Vergata”
“Cuozzo” prize
2011

Education

INSTITUTION	DEGREE	THESIS	DATES	SUPPORT
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PhD in Mathematics
University of Florence
Regular functions of one quaternionic variable (advisor G. Gentili)
January 1, 2007 - February 25, 2010
Three-year doctoral fellowship

INSTITUTION	DEGREE	GRADE	THESIS	DATES	SUPPORT
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Master’s degree in Mathematics
110 out of 110 cum laude
University of Florence
Funzioni regolari sui numeri di Hamilton (advisor G. Gentili)
September 28, 2004 - October 12, 2006
Scholarship and graduation prize, Istituto Nazionale di Alta Matematica

INSTITUTION	DEGREE	GRADE	THESIS	DATES	SUPPORT
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Bachelor’s degree in Mathematics
110 out of 110 cum laude
University of Florence
Omologia e applicazioni (advisor G. Gentili)
September 17, 2001 - September 28, 2004
Three-year scholarship, Istituto Nazionale di Alta Matematica

Language skills

ITALIAN
ENGLISH
SPANISH
PORTUGUESE
FRENCH

certificate of level B1, University of Florence
certificate of level B1, University of Florencee
Diplôme d'Études en Langue Française 1er degré

Periods abroad

INSTITUTION

DATES

Massachusetts Institute of Technology
(Cambridge, MA, USA)

August 31 - December 17, 2007

INSTITUTION

DATES

Chapman University (Orange, CA, USA)

January 3 - 20, 2009

INSTITUTION

DATES

Universidad de Sevilla (Spain)

June 14 - 19, 2010

INSTITUTION

DATES

Chapman University (Orange, CA, USA)

July 3 - 21, 2012

INSTITUTION

DATES

University of Arkansas (Fayetteville, AR, USA)

March 16 - 22, 2014

INSTITUTION

DATES

University of California at Davis (USA)

October 14 - 24, 2015

INSTITUTION

DATES

University of California at Davis (USA)

January 4 - 7, 2024

Affiliations

SOCIETY

ROLE

Unione Matematica Italiana (UMI)

Member

INDAM GROUP

ROLE

GNSAGA - section 2

Participant, 2007-2023

RESEARCH CENTER

ROLE

CECHA Chapman University (Orange, CA, USA)

Member

Research interests

- ▷
- ▷
- ▷

Function theory in one (hyper)complex variable and its applications
Bergman spaces
Holomorphic dynamics

Preprints

AUTHORS

TITLE

ARCHIVED ON

R. Ghiloni, C. Stoppato

A unified notion of regularity in one hypercomplex variable
<https://arxiv.org/abs/2309.02891>

Monograph

AUTHORS	G. Gentili, C. Stoppato, and D.C. Struppa
TITLE	<i>Regular functions of a quaternionic variable</i>
SERIES	Springer Monographs in Mathematics
SECOND EDITION	Springer-Verlag Berlin Heidelberg, 2022
FIRST EDITION	Springer-Verlag Berlin Heidelberg, 2013

Journal articles 2017-2024

AUTHORS	R. Ghiloni, C. Stoppato
TITLE	<i>Quaternionic slice regularity beyond slice domains</i>
JOURNAL	<i>Math. Z.</i> , DOI:10.1007/s00209-024-03434-7
AUTHORS	S. G. Krantz, A. Monguzzi, M. M. Peloso, C. Stoppato
TITLE	<i>Irregularity of the Bergman projection on smooth unbounded worm domains</i>
JOURNAL	<i>Mediterr. J. Math.</i> , 2023
AUTHORS	R. Ghiloni, A. Perotti, C. Stoppato
TITLE	<i>Slice regular functions and orthogonal complex structures over \mathbb{R}^8</i>
JOURNAL	<i>J. Noncommut. Geom.</i> , 2022
AUTHORS	G. Gentili, C. Stoppato, and T. Trinci
TITLE	<i>Zeros of slice functions and polynomials over dual quaternions</i>
JOURNAL	<i>Trans. Amer. Math. Soc.</i> , 2021
AUTHORS	G. Gentili, C. Stoppato
TITLE	Geometric function theory over quaternionic slice domains
JOURNAL	<i>J. Math. Anal. Appl.</i> , 2021
AUTHORS	G. Gentili, C. Stoppato
TITLE	A local representation formula for quaternionic slice regular functions
JOURNAL	<i>Proc. Amer. Math. Soc.</i> , 2021
AUTHORS	R. Ghiloni, A. Perotti, and C. Stoppato
TITLE	Division algebras of slice functions
JOURNAL	<i>Proc. Roy. Soc. Edinburgh Sect. A</i> , 2020
AUTHORS	R. T. Farouki, G. Gentili, H. P. Moon, and C. Stoppato
TITLE	Minkowski products of unit quaternion sets
JOURNAL	<i>Adv. Comput. Math.</i> , 2019
AUTHORS	S. G. Krantz, M. Peloso, and C. Stoppato
TITLE	Completeness on the worm domain and the Müntz-Szász problem for the Bergman space
JOURNAL	<i>Math. Res. Lett.</i> , 2019
AUTHORS	C. Bisi and C. Stoppato
TITLE	Landau's theorem for slice regular functions on the quaternionic unit ball
JOURNAL	<i>Internat. J. Math.</i> , 2017
AUTHORS	R. Ghiloni, A. Perotti, and C. Stoppato
TITLE	Singularities of slice regular functions over real alternative *-algebras
JOURNAL	<i>Adv. Math.</i> , 2017

Journal articles 2008-2017

AUTHORS	TITLE	JOURNAL
R. T. Farouki, G. Gentili, C. Giannelli, A. Sestini, and C. Stoppato	A comprehensive characterization of the set of polynomial curves with rational rotation-minimizing frames	<i>Adv. Comput. Math.</i> , 2017
R. Ghiloni, A. Perotti, and C. Stoppato	The algebra of slice functions	<i>Trans. Amer. Math. Soc.</i> , 2017
		<i>Trans. Amer. Math. Soc.</i> , 2023
S. G. Krantz, M. Peloso, and C. Stoppato	<i>Bergman kernel and projection on the unbounded worm domain</i>	<i>Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)</i> , 2016
R. T. Farouki, G. Gentili, C. Giannelli, A. Sestini, and C. Stoppato	Solution of a quadratic quaternion equation with mixed coefficients	<i>J. Symb. Comput.</i> , 2016
G. Gentili, S. Salamon, and C. Stoppato	Twistor transforms of quaternionic functions and orthogonal complex structure	<i>J. Eur. Math. Soc. (JEMS)</i> , 2014
C. Stoppato	A new series expansion for slice regular functions	<i>Adv. Math.</i> , 2012
G. Gentili and C. Stoppato	Power series and analyticity over the quaternions	<i>Math. Ann.</i> , 2012
C. Bisi and C. Stoppato	The Schwarz-Pick lemma for slice regular functions	<i>Indiana Univ. Math. J.</i> , 2012
C. Stoppato	Singularities of slice regular functions	<i>Math. Nachr.</i> , 2012
C. Stoppato	Regular Moebius transformations of the space of quaternions	<i>Ann. Global Anal. Geom.</i> , 2011
G. Gentili, C. Stoppato, and D.C. Struppa	A Phragmén - Lindelöf principle for slice regular functions	<i>Bull. Belg. Math. Soc. Simon Stevin</i> , 2011
G. Gentili and C. Stoppato	The open mapping theorem for regular quaternionic functions	<i>Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)</i> , 2009
C. Stoppato	Poles of regular quaternionic functions	<i>Complex Var. Elliptic Equ.</i> , 2009
G. Gentili and C. Stoppato	Zeros of regular functions and polynomials of a quaternionic variable	<i>Michigan Math. J.</i> , 2008

Book chapters

AUTHOR	C. Stoppato
TITLE	Some notions of subharmonicity over the quaternions
VOLUME	S. Bernstein, editor, <i>Topics in Clifford Analysis</i> , Trends in Mathematics, pages 75–101. Birkhäuser Verlag, Cham, 2019.
AUTHORS	C. Bisi and C. Stoppato
TITLE	Regular vs. classical Möbius transformations of the quaternionic unit ball
VOLUME	G. Gentili, I. Sabadini, M. Shapiro, F. Sommen, and D.C. Struppa, editors, <i>Advances in Hypercomplex Analysis</i> , Springer INdAM Series, pages 1–13. Springer, Milano, 2013.
AUTHORS	G. Gentili and C. Stoppato
TITLE	The zero sets of slice regular functions and the open mapping theorem
VOLUME	I. Sabadini and F. Sommen, editors, <i>Hypercomplex analysis and applications</i> , Trends in Mathematics, pages 95–107. Birkhäuser Verlag, Basel, 2011.
AUTHORS	G. Gentili, C. Stoppato, D. C. Struppa, and F. Vlacci
TITLE	Recent developments for regular functions of a hypercomplex variable
VOLUME	I. Sabadini, M. Shapiro, and F. Sommen, editors, <i>Hypercomplex analysis</i> , Trends in Mathematics, pages 165–186. Birkhäuser Verlag, Basel, 2009.

Journal abstracts

AUTHOR	C. Stoppato
TITLE	Funzioni regolari di una variabile quaternionica
JOURNAL	<i>Mat. Soc. Cult. Riv. Unione Mat. Ital. (I)</i> , 2011
AUTHORS	G. Gentili and C. Stoppato
TITLE	The zero sets of slice regular functions and the open mapping theorem
JOURNAL	<i>Abstracts Amer. Math. Soc.</i> , 2009

Reviewing activity

- ▷ Reviewer for the AMS *Mathematical Reviews*
- ▷ Reviewer for the EMS *Zentralblatt MATH*
- ▷ Referee for international journals

Thesis supervision

DEGREE PROGRAM
THESIS

GRADUATE PROGRAM
THESIS

Matematica, Università degli Studi di Firenze
Christian Stucchi, *Sviluppo in serie di funzioni quaternioniche*,
2022/2023

Mathematics, Università di Firenze
Tomaso Trinci, *Slice functions over the algebra of dual quaternions:
theory and applications to robotics*, 2016/2017

Organization

EVENT
PLACE
DATE

Incontro Nazionale di Analisi Ipercomplessa
Dipartimento di Matematica e Informatica “U. Dini”, Università degli
Studi di Firenze
December 19, 2022

EVENT
PLACE
DATES

Seminar “Hypercomplex function theory and applications”
Istituto Nazionale di Alta Matematica, Roma (online)
October 5, 2020 - present

EVENT
PLACE
DATES

INdAM Workshop “Complex function theory, its generalizations and
applications”
Istituto Nazionale di Alta Matematica, Roma
September 12-16, 2016

EVENT
PLACE
DATES

Spring 2016 School in Florence
DiMaI “U. Dini”, Università degli Studi di Firenze
May 30 - July 6, 2016

EVENT
PLACE
DATES

INdAM Workshop “New perspectives in differential geometry: special
metrics and quaternionic geometry”
Istituto Nazionale di Alta Matematica, Roma
November 16-20, 2015

EVENT
PLACE
DATE

Incontro Nazionale di Analisi Ipercomplessa
Dipartimento di Matematica e Informatica “U. Dini”, Università degli
Studi di Firenze
January 23, 2015

EVENT
PLACE
DATES

Meeting of FIRB 2012 project “Differential Geometry and Geometric
Function Theory”
Dipartimento di Matematica e Informatica “U. Dini”, Università degli
Studi di Firenze
October 23 - 25, 2013

EVENT
PLACE
DATES

Workshop “Nuove direzioni di ricerca in Geometria e Analisi
Ipercomplessa”
ICTP, Trieste
March 21 - 23, 2013

Talks 2020-2024

CONFERENCE TITLE OF THE TALK DATE	Joint Mathematics Meetings - San Francisco, CA (USA) <i>A new approach to regularity in one hypercomplex variable</i> 3 gennaio 2024
CONFERENCE TITLE OF THE TALK DATE	13th ICCA - Holon (Israel) <i>The extension phenomenon for slice regular quaternionic functions</i> June 6th, 2023
CONFERENCE TITLE OF THE TALK DATE	Workshop “A Complex Differential Geometry Meeting at UniTo” - Torino <i>Orthogonal complex structures and regularity over division algebras</i> May 19th, 2023
INSTITUTION SEMINAR TITLE OF THE TALK DATE	Università di Firenze Seminar of the PhD School Mathematics, Computer Science, Statistics <i>Hypercomplex function theory</i> May 4th, 2023
CONFERENCE TITLE OF THE TALK DATE	Workshop INdAM “New trends in complex and Fourier analysis and operator theory” - Roma <i>Variants on the Diederich–Fornaess worm domain</i> September 14th, 2022
CONFERENCE TITLE OF THE TALK DATE	New Trends in Quaternions and Octonions - Vila Real (Portugal) - online <i>Slice regularity on slice domains without symmetry</i> November 26th, 2021
CONFERENCE TITLE OF THE TALK DATE	Quaternioni sul Conero III - Ancona <i>Zeros of regular functions on non-symmetric slice domains</i> September 9th, 2021
CONFERENCE TITLE OF THE TALK DATE	Real and complex manifolds: the mathematical heritage of Edoardo Vesentini - Pisa - online <i>Function theory over quaternionic slice domains</i> June 29th, 2021
CONFERENCE TITLE OF THE TALK DATE	8th European Congress in Mathematics - Portorož (Slovenia) - online <i>Slice regular functions and orthogonal complex structures in eight dimensions</i> June 22nd, 2021
INSTITUTION SEMINAR TITLE OF THE TALK DATE	Università di Firenze - online Differential Geometry and Complex Analysis seminar <i>Dual quaternions and slice functions: theory and applications</i> March 25th, 2021
INSTITUTION SEMINAR TITLE OF THE TALK DATE	University College London - online Complex Analysis video seminars <i>Regularity in one hypercomplex variable</i> March 9th, 2021
INSTITUTION SEMINAR TITLES OF THE TALKS DATES	Istituto Nazionale di Alta Matematica - online Hypercomplex function theory and applications <i>The extension theorem for quaternionic slice regular functions I and II</i> November 23rd and 30th, 2020
CONFERENCE TITLE OF THE TALK DATE	12th ICCA - Hefei (China) - online <i>Local representation of slice regular functions over quaternionic slice domains</i> August 6th, 2020
CONFERENCE TITLE OF THE TALK DATE	HAMS 2020 - Weimar (Germany) <i>Recent results on slice regular octonionic functions</i> February 21st, 2020

Talks 2014-2019

CONFERENCE TITLE OF THE TALK DATE	
INSTITUTION TITLE OF THE TALK DATE	<p>12th ISAAC Congress - Aveiro (Portugal) <i>Zeros of slice functions over dual quaternions: theory and applications</i> August 1, 2019</p> <p>Universitetet i Stavanger, Department of Mathematics and Physics <i>Slice regular functions of a hypercomplex variable</i> May 25, 2018</p>
CONFERENCE TITLE OF THE TALK DATE	<p>Quaternioni sul Conero - Ancona <i>Slice functions in a non associative setting</i> September 8, 2017</p>
CONFERENCE TITLE OF THE TALK DATE	<p>11th ICCA - Gent (Belgium) <i>Polynomial curves with rational rotation-minimizing frames: a quaternionic approach</i> August 10, 2017</p>
CONFERENCE TITLE OF THE TALK DATE	<p>The First Joint IMU-INdAM Conference in Analysis - Tel Aviv (Israel) <i>Recent results in geometric function theory over alternative *-algebras</i> June 1, 2017</p>
CONFERENCE TITLE OF THE TALK DATE	<p>ICNPAA - La Rochelle (France) <i>Zeros and singularities of slice regular functions over alternative *-algebras</i> July 8, 2016</p>
CONFERENCE TITLE OF THE TALK DATE	<p>Complex Geometry BiDay - Parma (Italy) <i>Twistor lifts of quaternionic functions and orthogonal complex structures</i> February 26, 2016</p>
CONFERENCE TITLE OF THE TALK DATE	<p>Hypercomplex Analysis and Geometry Day - Ferrara <i>The algebra of slice functions: properties of the zeros over alternative *-algebras</i> December 1, 2015</p>
CONFERENCE TITLE OF THE TALK DATE	<p>XX Congresso dell'UMI - Siena <i>Nuovi risultati sulla palla unitaria quaternionica</i> September 10, 2015</p>
CONFERENCE TITLE OF THE TALK DATE	<p>6th AGACSE Conference - Barcelona (Spain) <i>Quaternion polynomial problems for the construction of Pythagorean-hodograph curves</i> July 31, 2015</p>
CONFERENCE TITLE OF THE TALK DATE	<p>Noncommutative Algebras and Applications - Goslar (Germany) <i>Zeros of polynomials and slice regular functions over alternative *-algebras</i> June 16, 2015</p>
INSTITUTION TITLE OF THE TALK DATE	<p>University of Arkansas, Department of Mathematics <i>Regular functions over the quaternions</i> March 20, 2014</p>
CONFERENCE TITLE OF THE TALK DATE	<p>Workshop 2014 “Varietà reali e complesse: geometria, topologia e analisi armonica” - Scuola Normale Superiore di Pisa <i>Nucleo e proiezione di Bergman sul dominio di Diederich–Fornæss illimitato</i> February 21, 2014</p>

Talks 2010-2013

CONFERENCE TITLE OF THE TALK DATE	9th ISAAC Congress - Kraków (Poland) <i>Quaternionic functions as tools for the classification of orthogonal complex structures</i> August 5, 2013
CONFERENCE TITLE OF THE TALK DATE	CIRM conference “Complex Analysis and Geometry - XXI” - Levico Terme, Trento (Italy) <i>Orthogonal complex structures and regular quaternionic functions</i> June 3, 2013
CONFERENCE TITLE OF THE TALK DATE	Workshop on “New Approaches to Hypercomplex Analysis and Geometry” - ICTP, Trieste <i>Il lemma di Schwarz-Pick per funzioni quaternioniche regolari</i> March 22, 2013
INSTITUTION TITLE OF THE TALK DATE	Università di Torino, Department of Mathematics <i>Orthogonal complex structures and twistor lifts of regular quaternionic functions</i> March 15, 2013
CONFERENCE TITLE OF THE TALK DATE	CIRM conference “Progressi Recenti in Geometria Reale e Complessa” - Levico Terme (Trento) <i>Orthogonal complex structures induced by regular quaternionic functions</i> October 14, 2012
CONFERENCE TITLE OF THE TALK DATE	Workshop di Analisi Ipercomplessa - Trento <i>Alcune nozioni di subarmonicità quaternionica</i> December 16, 2011
CONFERENCE TITLE OF THE TALK DATE	Congresso dell’UMI - Bologna <i>Nuovi sviluppi in serie per funzioni quaternioniche regolari</i> September 14, 2011
CONFERENCE TITLE OF THE TALK DATE	9th ICCA - Weimar (Germany) <i>A new series expansion for slice regular functions</i> July 19, 2011
INSTITUTION TITLE OF THE TALK DATE	Università di Roma “Tor Vergata”, Department of Mathematics <i>Trasformazioni fratte regolari sui quaternioni</i> January 25, 2011
CONFERENCE TITLE OF THE TALK DATE	Workshop “New entries at Tor Vergata” - Roma <i>Funzioni regolari sui numeri di Hamilton</i> December 16, 2010
CONFERENCE TITLE OF THE TALK DATE	CIRM conference “Progressi Recenti in Geometria Reale e Complessa” - Levico Terme (Trento) <i>Serie di potenze e analiticità sui quaternioni</i> October 19, 2010
CONFERENCE TITLE OF THE TALK DATE	INDAM Workshop “Different notions of regularity for functions of quaternionic variable” - Roma (Italy) <i>Slice regular Laurent series and classification of singularities</i> September 14, 2010
CONFERENCE TITLE OF THE TALK DATE	30th Winter School “Geometry and Physics” - Srní (Czech Republic) <i>Poles and essential singularities of slice regular functions</i> January 19, 2010

Talks 2008-2009

CONFERENCE	
TITLE OF THE TALK	
DATE	
CONFERENCE	
TITLE OF THE TALK	
DATE	
INSTITUTION	
TITLE OF THE TALK	
DATE	
CONFERENCE	
TITLE OF THE TALK	
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INSTITUTION	
TITLE OF THE TALK	
DATE	

AMS 2009 Fall Southeastern Meeting, Florida Atlantic University (USA)
The zero sets of slice regular functions and the open mapping theorem
October 31, 2009

7th ISAAC Congress, Imperial College London (UK)
Regular Moebius transformations over the quaternions
July 17, 2009

Politecnico di Milano, Department of Mathematics
Singolarità di funzioni quaternioniche regolari
March 6, 2009

CIRM conference “Progressi Recenti in Geometria Reale e Complessa”
- Levico Terme (Trento)
Sviluppi recenti nella teoria delle funzioni quaternioniche regolari
October 24, 2008

Università di Firenze, Department of Mathematics
Il teorema dell'applicazione aperta per funzioni quaternioniche regolari
March 10, 2008

Summer schools

SCHOOL	
COURSES	
DATES AND PLACE	
INSTITUTION	
COURSE	
DATES AND PLACE	
INSTITUTION	
COURSE	
DATES AND PLACE	
INSTITUTION	
COURSES	
DATES AND PLACE	

Spring 2016 School in Florence
Complex structures, spinors and projective geometry
*Slice regular functions on real alternative *-algebras*
Quaternions, Pythagorean-hodographs, and rotation-minimizing frames
Quaternionic linear operators and their functional calculus
University of Florence, May 30 - July 6, 2016

Scuola Matematica Interuniversitaria
Loewner's theory from the deterministic and stochastic point of view
Cortona, Arezzo, August 15 - 27, 2010

CIME
Holomorphic Dynamical Systems
Cetraro, Cosenza, July 7 - 12, 2008

Scuola Matematica Interuniversitaria
Differential Geometry and Algebraic geometry
Perugia, August 1 - September 2, 2005

University teaching

PHD PROGRAM COURSES

Mathematics, Computer Science and Statistics, Firenze-Perugia-INdAM
Funzioni di variabile complessa e ipercomplessa, 2020/2021
Functions of complex and hypercomplex variable, 2019/2020
Funzioni di variabile ipercomplessa, 2016/2017
Funzioni di variabile complessa e ipercomplessa, 2014/2015
Funzioni di variabile complessa e ipercomplessa, 2013/2014

DEPARTMENT MINICOURSE

Mathematics, Università di Milano
Introduzione alla teoria delle funzioni quaternioniche regolari,
January - February, 2013

UNDERGRADUATE PROGRAM COURSES

Chemistry of Conservation and Restoration, Università di Firenze
Matematica, 2023/2024
Matematica, 2022/2023
Matematica, 2021/2022
Matematica, 2020/2021
Matematica, 2019/2020
Matematica, 2015/2016

UNDERGRADUATE PROGRAM COURSE

Computer Engineering, Università di Firenze
Geometria e Algebra Lineare, 2023/2024
Geometria e Algebra Lineare, 2022/2023
Geometria e Algebra Lineare, 2021/2022

UNDERGRADUATE PROGRAM COURSE

Physics and Astrophysics, Università di Firenze
Geometria, 2020/2021

UNDERGRADUATE PROGRAM COURSES

Mathematics, Università di Firenze
Geometria I, 2017/2018
TA for the course *Istituzioni di Geometria Superiore I, 2009/2010*
TA for the course *Istituzioni di Geometria Superiore I, 2008/2009*

GRADUATE PROGRAM COURSES

Architecture, Università di Firenze
Istituzioni di Matematiche, 2017/2018
Istituzioni di Matematiche, 2016/2017

UNDERGRADUATE PROGRAM COURSE

Computer Engineering, Università Politecnica delle Marche
Algebra e Logica, 2010/2011

Further teaching

CONTEXT	Accademia Toscana di Scienze e Lettere “La Colombaria”
ACTIVITY	Colloquium on <i>Algebra e carte di credito - Usiamo antichi teoremi di algebra per ogni acquisto online</i>
ACADEMIC YEAR	April 5th, 2022
CONTEXT	Università di Firenze
ACTIVITY	Sarò matricola
ACADEMIC YEAR	2021/2022
CONTEXT	Università di Firenze
ACTIVITY	Settimana Matematica Fiorentina
ACADEMIC YEAR	2019/2020
CONTEXT	Università di Firenze
ACTIVITY	Progetto Alternanza Scuola-Università
ACADEMIC YEAR	2016/2017
	2015/2016
CONTEXT	Università di Firenze, <i>Settimana dell’Università</i>
ACTIVITY	Colloquium on <i>Algebra e carte di credito</i>
DATE	April 17, 2015
CONTEXT	PhD Program in Mathematics, Computer Science and Statistics,
ACTIVITY	Firenze-Perugia-INdAM
DATE	Presentation of FIRB projects
	December 3, 2014
CONTEXT	INdAM, Roma, training of INdAM-COFUND fellows
ACTIVITY	Minicourse <i>Research projects: applying for funding</i>
DATE	July 21, 2014
CONTEXT	Università Politecnica delle Marche, <i>Progetto Ponte</i>
ACTIVITY	Laboratorio di Eccellenza Certificato - Informatica e Telecomunicazioni
DATE	April 20, 2011