

# Curriculum Vitae et Studiorum

ANTONIO CIGLIOLA, PHD

## CONTACT INFORMATION

Istituto Comprensivo *Via Bagnera*  
via G. Bagnera, 64  
00146 Rome, ITALY

SBAI, Department of Basic and Applied Sciences for Engineering  
Sapienza, Università di Roma  
via Antonio Scarpa, 10  
00161 Rome, ITALY  
Office RM001 (ex Palazzina A)

E-mail: antonio.cigliola@uniroma1.it  
cigliola@mat.uniroma3.it  
acigliola@luiss.it

Website: <http://ricerca.mat.uniroma3.it/users/cigliola/>

## PRESENT POSITION

- Sept. 2015 - present Teacher (Professore di ruolo) of Mathematics and Natural Sciences at Istituto comprensivo *Via Bagnera*, Rome
- Sept. 2010 - present Lecturer and Instructor professor (Professore a contratto) at Faculty of Engineering, Sapienza, Università di Roma
- Sept. 2010 - present Instructor professor (Professore a contratto) at Dipartimento di Matematica e Fisica, Università Roma Tre
- Sept. 2010 - present Instructor professor (Professore a contratto) at Università LUISS, Roma

## EDUCATION

- Sept. 2014 Concorso a cattedra DDG82/2012, Classe di concorso A059-Scienze Matematiche, Chimiche, Fisiche e Naturali (Teaching qualification for Maths and Natural Sciences in Middle Schools)
- 2010 - 2014 Ph.D. in Mathematics (Dottorato di Ricerca in Matematica), Dipartimento di Matematica e Fisica, Università Roma Tre. Thesis: *Split quaternions, Generalized quaternions and Integer-valued polynomials*, May, 27, 2015. Advisor: Prof. Francesca Tartarone.
- August 2009 SMI - International School of Mathematics, Dipartimento di Matematica, Perugia, Italy
- 2006 - 2009 Graduate studies, Università degli Studi di Bari (Bari, Italy) Laurea Specialistica degree in Pure Mathematics, *Summa cum laude*, March, 13, 2009

RESEARCH INTEREST	<p>Noncommutative algebra: Generalized quaternion algebras, Localizations of non-commutative rings, Noncommutative valuation rings.</p> <p>Integer-valued polynomials: Localization, Module structure, Prime and maximal ideals of noncommutative integer-valued polynomial rings.</p>
PUBLICATIONS	<ul style="list-style-type: none"> <li>- <i>Analisi Matematica I</i> (Textbook of Mathematical Analysis I), Cigliola, La Dotta, 2018 (in Italian).</li> <li>- <i>Geometria</i> (Textbook of Geometry), Cigliola, La Dotta, 2016 (in Italian).</li> <li>- <i>Split quaternions and integer-valued polynomials</i>, A. Cigliola, K.A. Loper, N. Werner, <i>Communications in Algebra</i>, 2015, Vol.43 (1), pp.182-196, Taylor &amp; Francis.</li> <li>- <i>Complementi di Analisi Matematica II</i> (Textbook of Analysis II), Cigliola, de Bonis, De Cicco, La Dotta, 2014 (in Italian).</li> <li>- <i>SOS Matematica</i> (Coursebook for the Introductory Courses of Mathematics), Cigliola, De Cicco et al., La Dotta, 2013 (in Italian).</li> </ul>
INVITED TALKS	<ul style="list-style-type: none"> <li>- <i>Localizations of noncommutative Integer-valued polynomials over split-quaternions</i>, Conference on Commutative Rings, Integer-valued polynomials and Polynomial Functions, December 2012, Graz, Austria.</li> <li>- <i>Integer-valued polynomials over split-quaternions</i>, Commutative Rings and their Modules 2012, June 2012, Bressanone, Italy.</li> <li>- <i>Polynomials over quaternions</i>, Joint meeting Roma Tre-California State University Channel Islands, Rome, March 2011.</li> <li>- Talks for the Commutative Algebra Research Group, Dipartimento di Matematica e Fisica, Università Roma Tre, 2010-2014.</li> </ul>
ACADEMIC VISITS	<ul style="list-style-type: none"> <li>- Research activity with prof. Loper and dr. Werner, Ohio State University, Columbus (OH), USA, Summer 2013.</li> <li>- Research activity with prof. Loper and dr. Werner, Ohio State University, Columbus (OH), USA, Summer 2011.</li> </ul>
CONFERENCES, WORKSHOPS AND SCHOOLS	<ul style="list-style-type: none"> <li>- <i>Quando la Scienza è trasversale</i>, CNR-Centro Nazionale delle Ricerche, Rome, May 14 2018, Progettazione interdisciplinare, Didattica delle scienze matematico-fisiche, Competenze digitali, Educazione alla cultura economica</li> </ul>

- *Con la mente e con le mani, Il Mago dei Numeri*, Accademia dei Lincei, Auditorio di Villa Farnesina, Rome, September 2016-June 2017, Seminar and Laboratory tutor, in collaboration with Paola Supino (Università degli Studi Roma Tre).

- *Con la mente e con le mani, Il Mago dei Numeri*, Accademia dei Lincei, Auditorio di Villa Farnesina, Rome, September 2015-June 2016, Seminar and Laboratory tutor, in collaboration with Paola Supino (Università degli Studi Roma Tre).

- *Té di Matematica - General seminars of Pure and Applied Mathematics*, Dipartimento di Matematica e Fisica, Università Roma Tre, 2012-2014. Seminar organizer.

- *Conference on Commutative Rings, Integer-valued polynomials and Polynomial Functions*, Institut für Mathematik A, Technische Universität, Graz, Austria, December 2012. Invited speaker.

- *Incontri con la Matematica*, n.26, *La didattica della matematica: insegnamento e apprendimento a confronto*, Castel San Pietro Terme, Bologna, Italy, October 2012. Participant.

- *Commutative Rings and their Modules*, 2012, Bressanone, Italy, June 2012. Speaker and conference organizer.

- *Aspetti dell'Algebra Moderna nel bicentenario della nascita di Evariste Galois*, Naples, October 2011. Participant

- *Joint Meeting Universit degli Studi Roma Tre - California State University, Channel Islands*, Rome, Italy, March 2011. Conference Organizer and Speaker.

- *Third International Meeting on Integer Valued Polynomials and problems in Commutative Algebra*, Marseille, France, November 2010. Participant.

- *Local rings and local study of algebraic varieties*, Trieste, Italy, May 2010. Conference Grant.

- *Commutative Ring Theory Days in Rome*, Università degli Studi Roma Tre, May 2010. Participant.

- *Special Semester on Commutative Algebra*, Università degli Studi Roma Tre, February-May 2010. Participant.

- *SMI, Summer graduate courses in Mathematics*, Perugia, Italy, August 2009. Conference Grant.

UNDERGRADUATE  
TEACHING AND  
SUPERVISIONS

Spring 2018

- Lecturer for *Matematica II corso (Mathematical Analysis I)*, Corso di Laurea in Statistica, Economia e Società, Dipartimento di Scienze Statistiche, Sapienza Università di Roma.

- Lecturer for *Matematica II corso (Mathematical Analysis I)*, Corso di Laurea in Statistica, Economia, Finanza e Assicurazioni, Dipartimento di Scienze Statistiche, Sapienza Università di Roma.

- Lecturer for *Matematica II corso (Mathematical Analysis I)*, Corso di Laurea in Statistica Gestionale, Dipartimento di Scienze Statistiche, Sapienza Università di Roma.
- Fall 2017

  - Lecturer for *Geometria e algebra lineare (Linear Algebra and Geometry)*, Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
  - Teaching assistant and Review session instructor for AL110-Algebra 1 (Basic Abstract Algebra), Dipartimento di Matematica e Fisica, Università Roma Tre.
  - Teaching assistant and Review session instructor for *Mathematics for economists* at LUISS Guido Carli.
- Sept. 2017

  - Instructor professor for *Tutorato Speciale introduttivo di Matematica (Introductory course of Mathematics)* at Dipartimento di Matematica e Fisica, Università Roma Tre.
- Spring 2017

  - Lecturer for *Analisi Matematica II (Mathematical Analysis II)*, Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
  - Teaching assistant and Review session instructor for GE110-Geometria 1 (*Linear Algebra and Affine Geometry*), Dipartimento di Matematica e Fisica, Università Roma Tre.
- Fall 2016

  - Lecturer for *Geometria e algebra lineare (Linear Algebra and Geometry)*, Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
  - Teaching assistant and Review session instructor for GE210-Geometria 2 (*Bilinear Algebra, Euclidean and Projective Geometry*), Dipartimento di Matematica e Fisica, Università Roma Tre.
  - Teaching assistant and Review session instructor for AL110-Algebra 1(Basic Abstract Algebra), Dipartimento di Matematica e Fisica, Università Roma Tre.
  - Teaching assistant and Review session instructor for *Mathematics for economists* at LUISS Guido Carli.
- Fall 2015

  - Lecturer for *Geometria e algebra lineare (Linear Algebra and Geometry)*, Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
  - Teaching assistant and Review session instructor for GE210-Geometria 2 (*Euclidean and Projective Geometry*), Dipartimento di Matematica e Fisica, Università Roma Tre.
  - Teaching assistant and Review session instructor for *Mathematics for economists* at LUISS Guido Carli.

- Sept. 2015 - Instructor professor for *Precorso di Matematica (Introductory course of Mathematics for architects)* at Faculty of Architecture, Sapienza Università di Roma.
- Spring 2015 - Teaching assistant and co-lecturer for *Analisi Matematica II (Analysis in several real variables and Complex Analysis)* at Faculty of Engineering, Sapienza Università di Roma.
- Teaching assistant and Review session instructor for GE110-Geometria 1 (*Linear Algebra and Geometry*) at Dipartimento di Matematica e Fisica, Università Roma Tre.
- Fall 2014 - Lecturer for *Geometria e algebra lineare (Linear Algebra and Geometry)*, Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
- Teaching assistant and Review session instructor for *Geometria e algebra lineare (Linear Algebra and Geometry)*, Faculty of Engineering, Università Roma Tre.
- Teaching assistant and Review session instructor for *Mathematics for economists* at LUISS Guido Carli.
- Teaching assistant and Review session instructor at Dipartimento di Matematica e Fisica, Università Roma Tre, for
- o GE210-Geometria 2 (*Euclidean and Projective Geometry*)
  - o AL310-Istituzioni di Algebra Superiore (*Fields and Galois Theory*)
  - o AL210-Algebra 2 (*Groups, Rings and Fields*)
- Sept. 2014 - Instructor professor for *Precorso di Matematica (Introductory course of Mathematics for engineers)* at Faculty of Engineering, Sapienza Università di Roma.
- Instructor professor for *Precorso di Matematica (Introductory course of Mathematics for architects)* at Faculty of Architecture, Sapienza Università di Roma.
- Instructor professor for *Precorso di Matematica (Introductory course of Mathematics for economists)* at LUISS.
- Spring 2014 - Teaching assistant for *Analisi Matematica II (Analysis in several real variables and Complex Analysis)* at Faculty of Engineering, Sapienza Università di Roma.
- Teaching assistant and Review session instructor for GE110-Geometria 1 (*Linear Algebra and Geometry*) at Dipartimento di Matematica e Fisica, Università Roma Tre.

	Fall 2013	- Teaching assistant and Review session instructor for AL310-Istituzioni di Algebra Superiore ( <i>Fields and Galois Theory</i> ) at Dipartimento di Matematica e Fisica, Università Roma Tre.
	Sept. 2013	- Instructor professor for <i>Precorso di Matematica (Introductory course of Mathematics for engineers)</i> at Faculty of Engineering, Sapienza Università di Roma.
	Spring 2013	- Teaching assistant for <i>Analisi Matematica II (Analysis in several real variables and Complex Analysis)</i> at Faculty of Engineering, Sapienza Università di Roma.
	Fall 2012	- Teaching assistant and Review session instructor for AL110-Algebra 1 ( <i>Basic Algebra</i> ) at Dipartimento di Matematica e Fisica, Università Roma Tre.
	Sept. 2012	- Instructor professor for <i>Precorso di Matematica (Introductory course of Mathematics for engineers)</i> at Faculty of Engineering, Sapienza Università di Roma.
	Spring 2012	- Teaching assistant and Review session instructor for CR410-Crittografia ( <i>Cryptography</i> ) at Dipartimento di Matematica e Fisica, Università Roma Tre.
	Fall 2011	- Teaching assistant and Review session instructor for <i>Geometria e algebra lineare (Linear Algebra and Geometry)</i> , Faculty of Civil and Industrial Engineering, Sapienza Università di Roma.
	Spring 2011	- Teaching assistant and Review session instructor for CR410-Crittografia ( <i>Cryptography</i> ) at Dipartimento di Matematica e Fisica, Università Roma Tre.
	Fall 2010	- Teaching assistant and Review session instructor for AL310-Istituzioni di Algebra Superiore ( <i>Fields and Galois Theory</i> ) at Dipartimento di Matematica e Fisica, Università Roma Tre.
MIDDLE SCHOOL TEACHING	from Sept.2015	- Istituto comprensivo <i>Via Bagnera</i> , Roma. Teacher of Maths and Natural Sciences.
		- PON European Course, <i>Matematicamente</i> , Istituto comprensivo <i>Via Bagnera</i> , Roma.
	Spring 2017	- Chemistry Laboratory, Istituto comprensivo <i>Via Bagnera</i> , Roma.
	Apr-Jun 2014	- Istituto comprensivo <i>Via Belforte del Chienti</i> , Roma. Teacher of Maths and Natural Sciences.
HIGH SCHOOL TEACHING	July 2017	- Remedial Maths and Physics courses, Liceo Scientifico Statale <i>Keplero</i> , Roma.
	July 2016	- Remedial Maths and Physics courses, Liceo Scientifico Statale <i>Primo Levi</i> , Roma.

	July 2015	- Remedial Maths and Physics courses, Liceo Scientifico Statale <i>Primo Levi</i> , Roma.
	Apr-Jun 2015	- Liceo Scientifico Statale <i>Primo Levi</i> , Roma. Support Teacher of Mathematics and Physics (Docente di sostegno).
	March 2015	- Liceo Scientifico Statale <i>Aristotele</i> , Roma. Teacher of Mathematics and Physics.
	Mar-Apr 2014	- Liceo Classico Statale <i>Aristofane</i> , Roma. Teacher of Mathematics and Physics.
	Nov 2013	- Istituto Tecnico Aeronautico <i>F. de Pinedo</i> , Roma. Teacher of Computer Sciences.
	April 2013	- Istituto Tecnico del Turismo <i>Livia Bottardi</i> , Roma. Teacher of Mathematics and Physics.
E-TEACHING	Summer 2015	- Instructor professor for <i>Elearning: Precorso di Matematica (Introductory course of Mathematics for engineers)</i> at Faculty of Engineering, Sapienza Università di Roma.
ACADEMIC SERVICES		<ul style="list-style-type: none"> <li>- Instructor for the EU-funded PON course, <i>Matematicamente, la Matematica di tutti i giorni</i>, at Istituto comprensivo <i>via Bagnera</i>, Rome, 2018</li> <li>- Advisor for the Master degree thesis in Mathematics <i>Query: a way to connect Boolean Algebras and databases</i>, dr. Angelica Molignano, Dipartimento di Matematica e Fisica, Università degli studi Roma Tre, Summer 2017</li> <li>- Member of the Italian Research Group GNSAGA (Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni.), 2009-2016.</li> <li>- Member of the Grant Selection Committee of INDAM (Istituto Nazionale di Alta Matematica "F. Severi"), since 2012.</li> <li>- Member of the Evaluating Committee for OCSE-PISA (Programme for International Student Assessment) at INVALSI (Istituto nazionale per la valutazione del sistema educativo di istruzione e di formazione), 2012.</li> </ul>
AWARDS		<ul style="list-style-type: none"> <li>- INDAM Grant (Istituto Nazionale di Alta Matematica "F. Severi"), 2003-2006.</li> <li>- Scholarship Circolo Vaccarella, Fondazione Del Vivere Solidale ONLUS, 1998-2009.</li> </ul>
VARIOUS		<ul style="list-style-type: none"> <li>- Piano accompanist at Istituto comprensivo <i>via Bagnera</i>, Rome</li> <li>- Abilitazione all'insegnamento CL-A059, (Teaching qualification for Maths and Natural Sciences in Middle Schools), September 2014.</li> <li>- Licenza di Teoria, Solfeggio e Dettato Musicale (Diploma of music theory and solfeggio), Liceo Musicale Statale "G. Paisiello", Taranto (Italy), 2007.</li> </ul>

- ECDL-European Computer Driving License, 2003.
- Languages: Italian (native), English (fluent), French (basic).