CURRICULUM VITAE

Name: Paola D'Aquino

Positions:
November 2017-today full professor at Dipartimento di Matematica e Fisica, Università della Campania – "L. Vanvitelli"
March 2002 – October 2017 associate professor at Dipartimento di Matematica e Fisica, Seconda Università di Napoli
January 1996 –February 2002 researcher at Dipartimento di Matematica, Seconda Università di Napoli

Education:
• Ph.D. in Mathematics at University of Oxford
• Master in Mathematical Logic (2 years) at Università di Siena
• Laurea in Mathematics at Università di Siena

Recent Visiting positions awarded:
• MSRI, Berkeley, USA during the semester *Decidability, definability and computability in number theory* for six weeks from August 17 to December 18, 20*20* (online due to Covid)
• UFR Mathématiques – Université Paris Diderot from 10 January to 10 February 2019
• MSRI, Berkeley, USA, two months in 2014, during the semester *Model Theory, Arithmetic Geometry and Number Theory.*

Recent Committees membership:
• Member of Scientific committee of XXVII Incontro AILA, Caserta September 2020 (postponed due to Covid)
• Member of Scientific committee of Model Theory and Applications 2020, Cetraro, June 2020 (postponed due to Covid)
• Member of Scientific committee of Special session in Mathematical Logic at Congresso Unione Matematica Italiana, Pavia, September 2019
• Member of Scientific committee of Special session in Mathematical Logic at *1st Joint Meeting Brazil-Italy in Mathematics*, Rio de Janeiro (Brasil), August 2016
• Member of the Executive Committee of the Associationfor Symbolic Logic since 1/01/2020
• Member of the Executive Committee of the Italian Association for Logica and Applications (AILA)

Editorial activity:
• editor of The Bulletin of Symbolic Logic since January 2017
• co-editor of "Model theory and Applications", Quaderni di Matematica vol. 11 (2003), Seconda Università di Napoli
• co-editor dei Proceedings Logic Colloquium 2012, in Annals of Pure and Applied Logic, 167 (10), 2016.
• editor of the series Quaderni di Matematica published by Seconda Università di Napoli, from 2000 to today

Invited speaker in many international conferences in Europe and US

Teaching:
Undergraduate
Mathematical Logic, Commutative Algebra, Advanced algebra, Galois Theory, Model Theory, Algebra 2
*Graduate course***:**
•Weak fragments of Peano Arithmetic, graduate course, at Universidad de Concepción, January 2018
• Model Theory , Dottorato in Scienze Matematiche e Informatiche, Università di Napoli "Federico II" , 2013/2014
• Model Theory, Summer School in Mathematica Logic, Gargnano August 2012
•Weak fragments of Peano Arithmetic, graduate course, at Notre Dame University, Autumn 2000
•Graduate course at 11th European Summer School in Logic, Language and Information, Utrecht 9-15 August 1999.
•Peano Arithmetic, Dottorato in Logica matematica dell' Università di Siena, February 1994

Graduate students
• Angela Borrata (Università della Campania "L. Vanvitelli") 3nd year
• Anna De Mase (Università della Campania "L. Vanvitelli") 2st year
• Martina Liccardo (Università di Napoli "Federico II") 3nd year

Past Graduate students
G. Terzo
M. Bovenzi

Institutional duties:
• Rector delegate of Librariesof Università della Campania "L. Vanvitelli"
• Erasmus coordinator for the Department of Mathematics and Physics
• Scientific coordinator of the Library of the Department of Mathematics and Physics at (first) Seconda Università di Napoli and (then) Università della Campania "L. Vanvitelli"

Publications

[1] "Generic solutions of equations with iterated exponentials" (in collaborazione con A. Fornasiero and G. Terzo) in Transactions of the American Mathematical Society, 370, (2018), 1393-1407.

[2] "Model theory of some local rings" (in collaboration with A. Macintyre), in IfCoLog Journal of Logics and their Applications, vol 4, N. 4, (2017), College Publications, 885-899.

[3] "On the value group of a model of Peano Arithmetic", (in collaborazione con M. Carl and S.Kuhlmann), in Forum Mathematicum, vol. 29, n. 4, (2017), 951-958.

[4] "A note on $\aleph_{\alpha}$-saturated o-minimal expansions of real closed fields", (in collaboration with S. Kuhlmann), in Algebra and Logic, vol. 54, n. 6, (2016), 502-506

[5] "Comparing $\mathbb C$ and Zilber's Exponential fields: zero sets of exponential polynomials " (in collaboration with A. Macintyre and G. Terzo) in Journal of the Institute of Mathematics Jussieu, vol. 15, (1), (2016), 71-84

[6] "A valuation theoretic characterization of recursively saturated real closed fields" (in collaboration with S. Kuhlmann and K. Lange), in The Journal of Symbolic Logic, 80, (2015), 194-206

[7] "From Schanuel's Conjecture to Shapiro's Conjecture" (in collaboration with A. Macintyre and G. Terzo) in Commentarii Mathematici Helvetici, 89, (2014), 597-616

[8] "Primes in models of $I\Delta_0+\Omega_1$ ", (in collaboration with A. Macintyre), in Studies in Weak Arithmetic (Cégielski P, Cornaros C, Dimitracopoulos C,ed.) CSLI Publications, Journées sur les Arithmétiques Faibles 31, (2013), 85-92

[9] "Real closed exponential fields", (in collaboration with J. Knight, S. Kuhlmann and K. Lange), in Fundamenta Mathematicae, 219, (2012), 163-190.

[10] "Limit computable integer part", (in collaboration with J. Knight and K. Lange), in Archive of Mathematical Logic vol. 50, (2011), 681-695.

[11] "Quadratic forms over models of $I\Delta_0+\Omega_1$, II", (in collaboration with A. Macintyre), in Annals of Pure and Applied Logic. 162, (2011), 447-456.

[12] "Schanuel Nullstellensatz for Zilber fields" (in collaboration with A. Macintyre and   G. Terzo) in Fundamenta Mathematicae, 207, (2010), 123-143.

[13] "Real closed fields and models of Peano Arithmetic" (in collaboration with J. Knight and S. Starchenko), in The Journal of Symbolic Logic, vol.75, N. 1, 1-11.

[14] "A note on the decidability of exponential terms" (in collaboration with G. Terzo), in Mathematical Logic Quarterly, 53, N. 3 (2007), 306-310.

[15] "Strong initial segments of models of $I\Delta_0$" (in collaboration with J. Knight) in Fundamenta Mathematicae, 195, N. 2, (2007), 155-176.

[16] "Quadratic forms over models of $I\Delta_0+\Omega_1$, I", (in collaboration with A. Macintyre), in Annals of Pure and Applied Logic, 148 (2007), 31-48

[17] "Weak Fragments of Arithmetic", in The Notre Dame Lectures, Association for Symbolic Logic 18, A K Peters, 2005, 149-184.

[18] "Coding in $I\Delta_0$", (in collaboration with J. Knight) in Contemporary Mathematics vol.361, (2004), 23-36

[19] "Quotient fields of models of $I\Delta_0+\Omega_1$", in Mathematical Logic Quarterly 47 (2001) 3, 305-314.

[20] "Non standard finite fields over $I\Delta_0+\Omega_1$", (in collaboration with A. Macintyre), Israel Journal of Mathematics 117 (2000), 311-333

[21] "Solving Pell equations locally in models of $I\Delta_0$", Journal of Symbolic Logic, vol 63, 1998, 402-410

[22] "Towards the limits to the Tennenbaum phenomenon", Notre Dame Journal of Formal Logic, 38, 1997, 81-92

[23] "Pell equations and exponentiation in fragments of arithmetic", Annals of Pure and Applied Logic 77, 1996, 1-34

[24] "Δ_0-complexity of the relation $y=\Pi_{i<n}F(i)$", (in collaboration with A. Berarducci) Annals of Pure and Applied Logic, 75, 1995, 49-56

[25] "A sharpened version of McAloon theorem", Annals of Pure and Applied Logic 61, 1993, 49-62

[26] "Local behaviour of Chebyshev theorem in models of $I\Delta_0$", Journal of Symbolic Logic, vol 57, (1), 1992, 12-27

[27] "The structure of countable recursively saturated models", in Bollettino Unione Matematici Italiani, (7), 5B, 1991, 815-838

[28] "Topological duality for diagonalizable algebras", (joint with C. Bernardi) Notre Dame Journal of Formal Logic, vol. 29, (3) 1988, 345-364

[29] "A weak version of the strong exponential closure", (joint with A. Fornasiero and G. Terzo) to appear in Israel Journal of Mathemtics

[30] "Truncations of ordered abelian groups", (joint with J. Derakhshan and A. Macintyre) to appear in Algebra Universalis