

Curriculum vitae et studiorum of Giovanni Coppola (Born in Avellino, ITALY, on 20th Feb.1970)

Titles

- * Attending CEM (corso estivo di matematica) Summer Course in Perugia : August 1992
- * Laurea cum laude in Mathematics from the University of Salerno, on 21st July 1993
- * Participating to CEM (corso estivo di matematica) Summer Course in Perugia : August 1993
- * Contest for “ricercatore”(settore MAT05), in the Università del Sannio (then “sede gemmata”, from University of Salerno), starting service on 13th Jan 1997 (after, transferred to the University of Salerno)
- * Dottore di Ricerca in Matematica (Ph.D.in Math.) - University of Naples *Federico II* on 22nd Feb 2000
- * Corso CIME *Analytic Number Theory*, Cetraro(CS), 10-19 July 2002
- * Visiting Scholar at Rutgers University - New Jersey-USA - Fall 2002 (invited by Prof. Henryk Iwaniec)

Scientific Publications

- 1) Coppola, G. - *On the symmetry of primes in almost all short intervals* - Ric. Mat. **52.1** (2003), 21–29. [MR 2005f : 11209](#)
- 2) Coppola, G. - *On the symmetry of divisor sums functions in almost all short intervals* - Integers **4** (2004), A2, 9 pp. (electronic). [MR 2005b : 11153](#)
- 3) Coppola, G. - *On the symmetry of square-free supported arithmetical functions in short intervals* - JIPAM. J. Inequal. Pure Appl. Math. **5** (2004), no. **2**, Article 33, 11 pp. (electronic). [MR 2005f : 11210](#)
- 4) Coppola, G. - *On the symmetry of square-free numbers in almost all short intervals* - Riv. Math. Univ. Parma (N.S.) (7) **3*** (2004), 205–212. [MR 2005k : 11192](#)
- 5) Coppola, G. - *On the Correlations, Selberg integral and symmetry of sieve functions in short intervals* - J. Comb. Number Theory **2.2** (2010), Article 1, 91–105.
- 6) Coppola, G. - *On the Selberg integral of the k -divisor function and the $2k$ -th moment of the Riemann zeta-function* - Publ. Inst. Math. (Beograd) (N.S.) **88(102)** (2010), 99–110. [MR 2011m : 11173](#)
- 7) Coppola, G. - *On the Correlations, Selberg integral and symmetry of sieve functions in short intervals, II* - Int. J. Pure Appl. Math. **58.3** (2010), 281–298.
- 8) Coppola, G. - *On some lower bounds of some symmetry integrals* - Afr.Mat. **25** issue 1 (2014), 183–195.
- 9) Adhikari, S. D. and Coppola, G. - *On the average of the sum-of-odd-divisors function* - Currents trends in number theory (Allahabad, 2000), 1–15, Hindustan Book Agency, New Delhi, 2002. [MR 2003f : 11143](#)
- 10) Adhikari, S. D., Coppola, G. and Mukhopadhyay, A. - *On the average of the sum-of- p -prime-divisors function* - Acta Arith. **101** (2002), no. **4**, 333–338. [MR 2002k : 11163](#)
- 11) Coppola, G. and Laporta, M. - *A new “weighted” form of the Riemann-von Mangoldt explicit formula* - Note Mat. **14** (1994), no. **2**, 263–275 (1997). [MR 98k : 11118](#) - available online
- 12) Coppola, G. and Laporta, M. - *On the representation of even integers as sum of two almost equal primes* - Number theory, I (Rome, 1995) - Rend. Semin. Mat. Univ. Politec. Torino **53.3** (1995), 245–252. [MR 98h : 11122](#)
- 13) Coppola, G. and Laporta, M. - *Generations of correlation averages* - J. Numbers Volume 2014 (2014), Article ID 140840, 13 pages <http://dx.doi.org/10.1155/2014/140840> (compare [arxiv draft](#))
- 14) Coppola, G. and Laporta, M. - *A generalization of Gallagher’s Lemma for exponential sums* - Šiauliai Math. Semin. **10 (18)** (2015), 29–47.
- 15) Coppola, G. and Laporta, M. - *On the Correlations, Selberg integral and symmetry of sieve functions in short intervals, III* - Moscow J. of Combinatorics and N.T. **6.1** (2016), 3–24.
- 16) Coppola, G. and Laporta, M. - *Sieve functions in arithmetic bands* - Hardy-Ramanujan J. **39** (2016), 21–37.
- 17) Coppola, G. and Laporta, M. - *A note on the exponential sums of the localized divisor functions* - Anal. Probab. Methods Number Theory, 25–28, (Palanga 2016 Conference Proceedings), A. Dubickas et al. (Eds), 2017 Vilnius University
- 18) Coppola, G., Murty, M.R. and Saha, B. - *On the error term in a Parseval type formula in the theory of Ramanujan expansions II* - J. Number Theory **160** (2016), 700–715.
- 19) Coppola, G., Murty, M.R. and Saha, B. - *Finite Ramanujan expansions and shifted convolution sums of arithmetical functions* - J. Number Theory **174** (2017), 78–92.

- 20) Coppola, G. and Salerno, S. - *On the distribution in the arithmetic progressions of reducible quadratic polynomials in short intervals* - *Funct. Approx. Comment. Math.* **28** (2000), 75–81. [MR 2002a:11111](#)
- 21) Coppola, G. and Salerno, S. - *On the distribution in the arithmetic progressions of reducible quadratic polynomials in short intervals, II* - 21st Journées Arithmétiques (Rome, 2001). - *J. Théor. Nombres Bordeaux* **13** (2001), no. **1**, 93–102. [MR 2002e:11126](#) - available online
- 22) Coppola, G. and Salerno, S. - *On the symmetry of the divisor function in almost all short intervals* - *Acta Arith.* **113** (2004), no. **2**, 189–201. [MR 2005a:11144](#)
- 23) Coppola, G. and Salerno, S. - *On the symmetry of arithmetical functions in almost all short intervals* - *C. R. Math. Acad. Sci. Soc. R. Can.* **26** (2004), no. **4**, 118–125. [MR 2005m:11180](#)
- 24) Coppola, G. and Vitolo, A. - *On the distribution of primes in intervals of length $\log^{\Theta} N$* - *Acta Math. Hungar.* **70** (1996), no. **1-2**, 151–166. [MR 96i:11103](#)
- 25) Coppola, G. and Vitolo, A. - *Corrigendum to: "On the distribution of primes in intervals of length $\log^{\Theta} N$ "* [*Acta Math. Hungar.* **70.1-2** (1996), 151–166.] *Acta Math. Hungar.* **78.4** (1998), 359–361. [MR 99c:11115](#)

Preprints

1. Coppola, G. and Laporta, M.B.S. - *Almost equal prime solutions of linear equations in two variables* - Preprint University of Salerno, 1999
2. Coppola, G. and Salerno, S. - *On the distribution in the arithmetic progressions of quadratic reducible polynomials in short intervals, III* - Preprint
3. Coppola, G. and Iwaniec, H. - *On the symmetry of Hecke eigenvalues of modular forms in almost all short intervals* - Preprint n. 19 - July 2005 - University of Salerno
4. Coppola, G. - *On the symmetry of arithmetical functions in almost all short intervals, II* - Preprint n. 13 - July 2006 - University of Salerno
5. Coppola, G. - *On the symmetry of arithmetical functions in almost all short intervals, III* - Preprint n. 14 - July 2006 - University of Salerno
6. Coppola, G. - *On the symmetry of arithmetical functions in almost all short intervals, IV* - available online at <http://arxiv.org/abs/0805.1985v1> - 10 pp. (electronic).
7. Coppola, G. - *On the symmetry of arithmetical functions in almost all short intervals, V* - available online at <http://arxiv.org/abs/0901.4738v2> - 5 pp. (electronic).
8. Coppola, G. - *On the modified Selberg integral* - <http://arxiv.org/abs/1006.1229v1> - 6 pp. (electronic).
9. Coppola, G. - *On the symmetry integral* - <http://arxiv.org/abs/1007.1018v1> - 5 pp. (electronic).
10. Coppola, G. and Laporta, M. - *Generations of correlation averages* - <http://arxiv.org/abs/1205.1706v3> - 24 pp. (electronic). (compare Journal version, which is shorter)
11. Coppola, G. - *On the Selberg integral of the three-divisor function d_3* - <http://arxiv.org/abs/1207.0902v3> - 4 pp. (electronic).
12. Coppola, G. and Laporta, M. - *A modified Gallagher's Lemma* - <http://arxiv.org/abs/1301.0008v1> - 5 pp. (electronic).
13. Coppola, G. and Laporta, M. - *Symmetry and short interval mean-squares* - submitted, see online <http://arxiv.org/abs/1312.5701v3> - 20 pp. (electronic).
14. Coppola, G. and Laporta, M. - *Some optimal links between generations of correlation averages* - available online at <http://arxiv.org/abs/1505.04551v1> - 5 pp. (electronic), submitted.
15. Coppola, G. - *Averages of short correlations: a note* - <http://arxiv.org/abs/1603.04847v1> - 7 pp. (electronic).
16. Coppola, G. - *On the symmetry of distribution of the prime-divisors function in short intervals* - (to appear).

Participations to National and International Conferences

- * *La matematica per una nuova industria* (organized by CNR, Fondazione IBM Italia and University of Naples Federico II); Naples, 3-4 Mar 1994
- * *Primo Incontro Italiano di Teoria dei Numeri*; Rome, 3-5 Jan 1995
- * *Convegno in onore di Carlo Ciliberto*; Naples, 25-26 May 1995
- * *Cardiff Symposium on Sieve Methods, Exponential Sums and their applications in Number Theory*; Cardiff, Wales, 16-21 July 1995

- * *Analytic and Elementary Number Theory*, A Satellite-Conference of The European Congress on Mathematics 1996, In Honour of Edmund Hlawka's 80th birthday; Wien, Austria, 18-20 July 1996
- * *International Number Theory Conference*, dedicated to Prof. Andrzej Schinzel in occasion of His 60th birthday; Zakopane-Koscielisko, Poland, 30 June-9 July 1997
- * *Convegno in memoria di Resia Del Vecchio Trombetti*; Neaples, 31 Oct 1997
- * *Diophantine approximation and Analytic Number Theory*; Pisa, 28 June-10 July 1999
- * *Journées Arithmétiques, XXI*, Università Lateranense; Rome, 12-16 July 1999
- * *XVI Convegno U.M.I.*; Neaples, 13-18 Sep 1999
- * Workshop *Unusual applications of Number Theory*, DIMACS, Rutgers University; Piscataway, New Jersey-USA, 10-14 Jan 2000
- * *Première Journées du Nord sur les nombres premiers*, Université des Sciences et Technologies de Lille; Lille, France, 25-29 June 2001
- * *Journées Arithmétiques, XXII*, Université des Sciences et Technologies de Lille, France, 2-6 July 2001
- * Workshop *Special Activity in Analytic Number Theory and Diophantine equations*, Max Planck Institute for Mathematics; Bonn, Germany, 24-28 June 2002
- * *Journées Arithmétiques, XXIII*, Karl-Franzens Universität, Graz; Graz, Austria, 6-12 July 2003
- * *Secondo Incontro Italiano di Teoria dei Numeri*, Università di Parma; Parma, 13-15 Nov 2003
- * *Gauss-Dirichlet Conference*, Mathematisches Institut Georg-August-Universität, Göttingen, Germany, 20-24 June 2005
- * *Journées Arithmétiques, XXIV*, organisées par CNRS, Université de Provence (UP) et Université de la Méditerranée (UM), Marseille, France, 4-8 July 2005
- * *XXV International Seminar on stability Problems for Stochastic Models*; Maiori, Salerno, 20-24 Sep 2005
- * Special Session no.14: "Number Theory" (4th July) at *Mathematics and its applications* - a joint SIMAI - SMAI - SMF - UMI meeting; Torino, 3-7 July 2006
- * *Journées Arithmétiques, XXV*, University of Edinburgh, Scotland UK, 2-6 July 2007
- * *Journées Arithmétiques, XXVI*, Université Jean Monnet, Saint Etienne, France, 6-10 July 2009
- * *Italy-India Conference on Diophantine and Analytic Number Theory*, Centro di ricerca Matematica Ennio De Giorgi; Pisa, 8-14 Mar 2010
- * *Workshop on Analytic Number Theory*, Institute for Advanced Study, www.math.ias.edu; Princeton, New Jersey (USA), 15-19 Mar 2010
- * *Conference in honor of the 70th birthday of Endre Szemerédi*, Alfréd Rényi Institute of Mathematics; Budapest, Hungary, 2-7 Aug 2010
- * *Number Theory and its Applications*, An International Conference Dedicated to Kálmán Győry, Attila Pethő, János Pintz, András Sárközy; Debrecen, Hungary, 4-8 Oct 2010
- * *Journées Arithmétiques, XXVII*, Faculty of Mathematics and Informatics, Vilnius University; Vilnius, Lithuania, 27 June - 1 July 2011
- * *XIX Congresso UMI*, Dipartimento di Matematica della Università di Bologna; Bologna, 12-17 Sep 2011
- * *CAPARIS - Combinatoire Additive à Paris*, Institut Henri Poincaré, Paris, France, 9-13 July 2012
- * *ELAZ - Elementare und Analytische Zahlentheorie*, at Schloss Schney, organized by Würzburg University; Würzburg, Germany, 13-17 Aug 2012
- * *SAVANT - Synergies and Vistas in Analytic Number Theory*, Conference in Honor of Roger Heath-Brown, athematical Institute, Oxford UK, 3-7 Sep 2012
- * *Journées Arithmétiques, XXVIII*, Université de Grenoble I, CNRS - Institut Fourier, St-Martin d'Hères Cedex, Grenoble, France, 1-5 July 2013
- * Workshop: *Analytic Number Theory*, Mathematik-Zentrum, Bonn, Germany, 11-18 July; pre-Workshop *Exciting New Faces in Analytic Number Theory (ENFANT)*: 11-12/7/2014 AND Main sessions *Emerging Leaders and Evolving Frontiers in Analytic Number Theory (ELEFANT)*: 14-18/7/2014
- * *Journées Arithmétiques, XXIX*, University of Debrecen, Debrecen, Hungary, 6-10 July 2015
- * *Győry 75*, a symposium in honor of the 75th birthday of Professor Kálmán Győry, University of Debrecen, Debrecen, Hungary, 10-11 July 2015
- * *Third Italian NUMBER THEORY Meeting*, Terzo Incontro italiano di Teoria dei Numeri, Centro De Giorgi, Pisa; Pisa, Italy, 21-24 Sep 2015

- * *Leuca 2016 - Celebrating Michel Waldschmidt's 70th birthday*, Marina di San Gregorio, Patù; Patù (Lecce), Italy, 13-17 June 2016
- * *CNTA 2016 - 14th Meeting of the Canadian Number Theory Association (CNTA XIV)*, University of Calgary; Calgary, CANADA, June 20-24, 2016
- * *QUÉBEC-MAINE NUMBER THEORY Conference*, Université Laval; Québec, CANADA, Oct 8-9, 2016

Seminars

- * “Distribuzione asintotica dei numeri primi in intervalli corti”, within the cycle of seminars “InWork!”, given at the Department of Mathematics “Renato Caccioppoli”, University of Naples “Federico II”, on 18th Apr 1997
- * “On the distribution in the arithmetic progressions of reducible quadratic polynomials in short intervals, I-II”, given in the (quoted) “Journées Arithmétiques, XXI”, on 12th July 1999
- * “Symmetry of arithmetical functions over short intervals”, given in the (quoted) “Première Journées du Nord sur les nombres premiers”, on 28th June 2001
- * “On the symmetry of the divisor function in almost all short intervals”, given in the (quoted) “Journées Arithmétiques, XXII”, on 5th July 2001
- * “Simmetria di funzioni aritmetiche in quasi tutti gli intervalli corti”, given in the (quoted) “Secondo Incontro Italiano di TEORIA DEI NUMERI”, on 13th Nov 2003
- * “On the symmetry of some classes of arithmetical functions in short intervals”, given in the (quoted) “Journées Arithmétiques, XXIV”, on 8th July 2005
- * “Crivello Largo e Simmetria in Intervalli Corti”, given at DIMA, Department of Mathematics, University of Genova, on 19th Sep 2006
- * “On the Selberg integral of the k -divisor function and the $2k$ -th moment of the Riemann zeta function”, given in the (quoted) “Journées Arithmétiques, XXVI”, on 8th July 2009
- * “On some lower bounds of some symmetry integrals”, given in the (quoted) “Italy-India Conference”, on 9th Mar 2010
- * “New results on symmetry integrals”, given in the (quoted) “Number Theory and its Applications”, on 4th Oct 2010
- * “Aspetti elementari del metodo della Dispersione e del Crivello Largo”, during XIX UMI Congress in Bologna, on 15th Sep 2011
- * “Selberg integral of d_k , its correlations sum and moments of Riemann ζ on the line”, given in the (quoted) “ELAZ”, on 17th Aug 2012
- * “Introducing weighted Selberg integrals”, given in the (quoted) “Journées Arithmétiques, XXVIII”, on the 1st of July 2013
- * “Arithmetic bands and weighted Selberg integrals”, given in the (quoted) “Journées Arithmétiques, XXIX”, on the 6th July 2015
- * “Sieve functions in almost all short intervals”, given in the (quoted) Third Italian Number Theory meeting, on the 21st Sep 2015
- * “Elementary considerations on correlation averages”, given in the 14th meeting of the Canadian Number Theory Association (CNTA XIV), on the 20th June 2016
- * “Finite Ramanujan expansions and shifted convolution sums”, given in the (quoted) QUÉBEC-MAINE NUMBER THEORY Conference, on the 8th Oct 2016
- * the invited *colloquium talk* “Sieve functions and Finite Ramanujan expansions”, at the Department of Mathematics of Queen's University, on the 14th Oct 2016

Didactic Experience

- * Exercise Session for “Istituzioni di Matematiche I”, 1996/1997 (Prof. Di Gironimo - Univ.Sannio)
- * Exercise Session for “Istituzioni di Matematiche II”, 96/97 (Prof. Casolaro - Univ.Sannio)
- * Exercise Session for “Istituzioni di Matematiche I”, 97/98 (Prof. Spallicci - Univ.Sannio)
- * Exercise Session for “Istituzioni di Matematiche II”, 97/98 (Prof. D' Anna - Univ.Sannio)
- * Exercise Session for “Matematica I”, 1999/2000 (Prof. Scarpetta - Univ.Salerno)
- * Exercise Session for “Matematica III/IV”, 99/00 (Prof. Piccoli - Univ.Salerno)

- * Exercise Session for “Analisi Matematica II”, 99/00 (titolare : Prof. Ciarletta - Univ.Salerno)
- * Exercise Session for “Analisi Matematica II”, 2000/2001 (titolare : Prof. Ciarletta - Univ.Salerno)
- * Course “Matematica I”, 00/01-I semester (Calculus I - Univ.Salerno, for Civil Engineers)
- * Course “Matematica II”, 00/01-II semester (Calculus II - Univ.Salerno, for Mechanic Engineers)
- * Course “Matematica I”, 01/02-I sem. (Calculus I - Univ.Salerno, for Mechanic Engineers)
- * Course “Matematica II/III”, 01/02-II sem. (Advanced Calculus - Univ.Salerno, for Electronic Engineers)
- * Course “Matematica II/III”, 02/03-II sem. (Advanced Calculus - Univ.Salerno, for Electronic Engineers)
- * Course “Matematica V”, 02/03-II sem. (Introduction to Probability - Univ.Salerno, for Electron. Eng.s)
- * Course “Matematica I”, 03/04-I sem. (Calculus I - Univ.di Salerno, for Electronic Engineers)
- * Course “Matematica III”, 03/04-II sem. (Advanced Calculus - Univ.di Salerno, for Electronic Engineers)
- * Course “Matematica IV”, 03/04-II sem. (Math Methods - Univ.di Salerno, for Electronic Engineers)
- * Course “Matematica I”, 04/05-I sem. (exercises in Calculus I - Univ.di Salerno, for Civil Engineers)
- * Course “Matematica I”, 05/06-I sem. (Calculus I - Univ.di Salerno, for Civil Engineers)
- * Course “Software Matematico”, 06/07-I sem. (Math Software - Univ.di Salerno, for Electronic Eng.s)
- * Course “Applicazioni di Calcolo Numerico”, 06/07-II sem. (Univ.di Salerno, for Mechanic Engineers)
- * Course “Matematica I”, 07/08-I sem. (Calculus I - Univ.di Salerno, for Civil Engineers)
- * Course “Matematica II”, 07/08-II sem. (Calculus II - Univ.di Salerno, for Civil Engineers)

Collaborations with Journals

- * Reviewer for *Mathematical Reviews*
- * Reviewer for *Zentralblatt MATH*

Avellino, 27 March 2017

Signature