

Giorgio Nordo

Researcher and **Aggregate Professor** at Messina University, Italy



- Date of Birth: June 21th, 1968
 MIFT Dept. Messina University Viale F. Stagno D'Alcontres, 31 98166 - Messina, Italy
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- ORCID:0000-0002-9585-9680

Interests

- 🞓 General Topology
- 🞓 Fibrewise Topology
- 🞓 Digital Geometry
- 🞓 Soft Topology
- 🞓 Neutrosophic Topology

Skills -

Programming: Delphi, Lazarus Visual Basic C, C++ Web Development: PHP, MySQL HTML5, JScript, CSS3

Working Experience

Nov, 2005 – Aggregate Professor Messina University, Italy ongoing Teaching the course of *Models and Computational Methods for Geometry* for the Master's degree course in Mathematics (LM-40) at MIFT Department. In the past he also taught courses in Topology, Geometry III, Digital Topology, Institutions of Higher Geometry and Computational Geometry.

- Dec, 2000 -Visiting ResearcherUniversidad del Pais Vasco, Bilbao (Spain)Jan, 2001Conducted seminarial activities at the Departamento de Matemàticas
and joint research with prof. Marta Macho Stadler in the fields of
General Topology and Fibrewise Topology.
- Mar, 1995 Visiting Researcher Kansas University, Lawrence (USA) May, 1995 Conducted joint scientific research in the fields of General Topology and Fibrewise Topology with prof. J.R. Porter and partecipated to seminarial activities of the Mathematics Department of the Kansas University in Lawrence.
- Aug 1995 –Visiting ResearcherLomonosov Moscow State University (Russia)Sep, 1995Conducted joint scientific research in the fields of Fibrewise Topology
with prof. B.A. Pasynkov.
- Feb, 1997 –
ongoingConfirmed Researcher in the scientific disciplinary field MAT/03
(Geometry)Messina University, Italy
Research activities in the fields of General Topology, Fibrewise Topol-
ogy, Digital Geometry, Soft Topology, and Neutrosophic Topology.
- Jun, 1993 –Visiting ResearcherUniversidad del Pais Vasco, Bilbao (Spain)Jul, 1993Conducted scientific research jointly with prof. J. Gutierrez, M.A. De
Prada and held a lecture on \mathcal{P} -functions.
- Sep, 1986 –Computer Science TeacherENIPLA, Regione CalabriaDec, 1992Teaching Computer Science in professional training courses for Analysts/Programmers

Education

1998	Ph.D. in MathematicsMessina UniversityConsorzio Interuniversitario per il Dottorato di Ricerca Catania- Messina-PalermoTitle: Compattificazioni perfette di funzioni.Supervisors: Prof. F. Cammaroto (Messina University) and Prof. J.R. Porter (Kansas University, Lawrence, USA).ISCED 6, 6 th level of the European Union classification 85/368/EEC
	Fibrewise Topology General Topology
1992	Master's Degree in MathematicsMessina UniversityUniversità degli Studi di MessinaTitle: Introduzione alla teoria dei frattaliSupervisor: Prof. F. Cammaroto (Messina University)ISCED 5, 5th level of the European Union classification 85/368/EECGrade: 110/110 cum laudeAlgebraAnalysisComputer ScienceGeometryNumerical AnalysisGeneral Topology

Short Bio

Giorgio has been teaching and researching at the University of Messina for over twenty years, has taught courses in Topology, Digital Geometry and Computational Geometry, has written over forty scientific articles, has been a member of numerous scientific committees of international workshops and conferences, has been a visiting researcher in the United States, Spain and Russia and is accredited as a referee for many scientific journals.

Metrics -



Community Profiles –



Languages

Italian (Mother Tongue)

English (B2)

French (Basic level)

Personal -

Giorgio lives in Reggio Calabria with his partner Paola who works in tourism, has two children: Matteo 15 years old and Alessandro 6 years old. Always passionate about programming and web development, training and scientific dissemination, alternating his academic work with commitment to the non-profit association *Calabria Formazione* and political interests. He loves reading, art, hiking, visiting new countries, playing chess, watching good movies and in the past he has also practised parachuting.

Teaching Experience

Postgraduate Courses

2005-2006	Computational Geometry 32 hours course for the XIX cycle of the PhD in Mathematics of the Messina University, Italy
2000-2001	Laboratory of Didactics of Mathematics Course for the first year of SISSIS, Sicilian Inter-University School of Specialization for Secondary Teaching in Physical, Information Technology and Mathematics (competition classes 47/A and 49/A) for graduates organized by Messina University, Italy
1999-2000	Fibrewise General Topology 40 hours course for the XV cycle of the PhD in Mathematics of the Messina University, Italy

Undergraduate Courses

2016 –	Models and Methods for Computational Geometry for the Master's Degree in Mathematics of the Messina University
2011-2013	Geometry III for the Master's Degree in Mathematics of the Messina University
2010-2011	Models and Methods for Graphs Geometry for the Master's Degree in Mathematics of the Messina University
2008-2014	Models and Methods for Graphical Geometry for the Master's Degree in Mathematics of the Messina University
2008-2009	Laboratory of Didactics of Mathematics (Geometry module) for the Master's Degree in Mathematics of the Messina University
2003-2008	Digital Topology for the Master's Degree in Mathematics of the Messina University
2000-2008	Topology for the Master's Degree in Mathematics of the Messina University
2000-2002	Higher Geometry (II module) for the Master's Degree in Mathematics of the Messina University
1998-2000	Practice of Geometry for the Master's Degree in Mathematics of the Messina University
1996-1999	Practice of Higher Geometry for the Master's Degree in Mathematics of the Messina University
1996-1998	Practice of Geometry for the Master's Degree in Physics of the Messina University
1996-1997	Informatics and Statistics for the Master's Degree in Pharmacy of the Messina University

Dissertation Supervision

Jan. 2015	<i>Introduzione ai Frattali mediante Sistemi di Funzioni Iterate</i> Master's Degree Thesis by Carmela Aliberti
Dec.2013	<i>Una introduzione agli Spazi Topologici Digitali</i> Master's Degree Thesis by Angela Santoro
Mar. 2009	<i>Gap e Dimensione negli Spazi Digitali</i> Ph.D. Thesis by Angelo Maimone
Jun.2003	<i>Funzioni Metriche in Topologia Generale per Fibre</i> Master's Degree Thesis by Angelo Maimone
Sept. 2002	<i>Teoria delle Compattificazioni di Funzioni in Topologia per Fibre</i> Master's Degree Thesis by Francesco Raffa

Refereeing Activity –

- Divulgaciones Matemataticas
- Italian Journal of Pure and Applied Mathematics (IJPAM)
- Filomat
- International Journal of Computer Mathematics (IJCM)
- Journal of Mahani Mathematical Research Center (JMMRC)
- Sohag Journal of Mathematics (SJM)
- Journal of Mathematical Extension
- Discussiones Mathematicae General Algebra and Applications (DM-GAA)
- Mathematical Sciences Letters (MSL)
- International Journal of Neutrosophic Science (IJNS)
- Discrete Applied Mathematics
- Soochow Journal of Mathematics
- Glasnik Matematicki

Scientific Cooperations

- Prof. Reneta P. Barneva Fredonia State University of New York, USA
- **Prof. Valentin E. Brimkov** SUNY Buffalo State College, USA
- Prof. Filippo Cammaroto Messina University, Italy
- Prof. Yanxun Chang Beijing Jiaotong University, China
- Prof. Reinhard Klette Auckland University of Technology, New Zealand and Shandong Academy of Sciences, China
- Prof. Arif Mehmood Khattak Riphah International University, Islamabad, Pakistan
- **Prof. Ljubisa D.R. Kočinac** Niš University, Serbia
- Prof. Hovik A. Matevossian Russian Academy of Sciences, Russia
- Marta Macho Stadler Universidad del País Vasco, Bilbao, Spain
- Prof. Boris A. Pasynkov Lomonosov Moscow State University, Russia
- Prof. Jack R. Porter Kansas University, USA

Organizational activities

2018 –	Leader of the Research Unit on Soft and Neutrosophical Topology MIFT Department of Messina University
2009 –	Leader of the Research Unit on Geometry and Digital Topology MIFT Department of Messina University
2007	President of the Organizing Committee of Mamboday 2007 Reggio Calabria, Italy November 22 nd -23 rd , 2007
2005	President of the Scientific and Organizing Committee of the Digital
	Geometry Workshop (DGW2005)Messina, ItalyNovember 21st-24th, 2005Messina, Italy
2004	Member of the Organizing Committee of the Congress Days of Ge-
	ometry Messina, Italy
	November 11^{st} - 12^{nd} , 2004
2003	Member of the Organizing Committee of the International Sympo- sium on Graphs, Designs and Applications (ISGDA 2003) Messina, Italy
	September 30 th - October 4 th , 2003
2002	Member of the Organizing Committee of the 6 th Workshop on Com-
	binatorics Messina, Italy March 25 th -27 th , 2002
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1999	Member of the Organizing Committee of the "Meetings of Mathe- matics", seminar structure of the Department of Mathematics and Computer Science Messina University
1997	Member of the Organizing Committee of the XIV International
	Congress of TopologyMilazzo (ME), ItalySeptember 15th-19th, 1997Milazzo (ME), Italy
	2009 – 2007 2005 2004 2003 2002 1999

Participation in Research Projects

	2018 –	Research Unit on Soft and Neutrosophical TopologyMessinaUniversity, Italy(coordinator of the research unit)
	2009 –	Research Unit on Geometry and Digital Topology Messina University, Italy (coordinator of the research unit)
	2000 - 2009	PRA 2008 - Teorie Geometriche, Algebriche e loro Applicazioni Messina University, Italy (member of the research unit)
,	2000 - 2009	PRA 2008 - Teorie Geometriche, Algebriche e loro Applicazioni Messina University, Italy (member of the research unit)
	2008	PRIN 2008 - Disegni Combinatorici, Grafi e loro Applicazioni Messina University, Italy (member of the research unit)
	2006	PRIN 2006 - Strutture Geometriche, Combinatoria e loro Appli- cazioni Messina University, Italy (member of the research unit)
	2005	PRA 2005 - Geometria Digitale Messina University, Italy (coordinator of the research unit) Messina University, Italy
	2003	PRIN 2003 - Strutture Geometriche, Combinatoria e loro Appli- cazioni Messina University, Italy (member of the research unit)
,	2001	PRIN 2001 - Strutture Geometriche, Combinatoria e loro Applicazioni Messina University, Italy (member of the research unit)

Workshops and Summer Schools

1996	Scuola Estiva di Geometria Combinatorica San Felice del Benaco, Italy – July 14 th -20 th , 1996
1994	Scuola Estiva di Geometria Combinatorica Eremo di Bienno, Italy – July 17 th -23 rd , 1994
1992	Scuola estiva di Matematica Perugia, Italy – July 26 th - August 29 th , 1992
	Workshop on Topology Vietri sul Mare, Italy – May 25 th -29 th , 1992

Congresses and Conferences

2019	XXI Conferenza Europea della Fondazione De Benedetti Reggio Calabria, Italy – June 15 th , 2019
2018	IC-MSQUARE, International Conference on Mathematical Modeling in Phsical Sciences Moscow, Russia – August 27 th -31 st , 2018
2006	IWCIA 2006, International Workshop on Combinatorial Image Analysis Berlin, Germany – June 19 th -21 st , 2006
2005	ISVC 2005, International Symposium on Visual Computing Lake Tahoe, USA – December 5^{th} - 7^{th} , 2005
	DGW 2005, Digital Geometry Workshop Messina, Italy – November 21 st -24 th , 2005
2004	Convegno 'Giornate di Geometria' Messina, Italy – November 11 st -12 nd , 2004
	Geometry, Topology and Combinatorics Stockholm, Sweden – July 3 th -6 th , 2004
	European Congress of Mathematis (4ECM) Stockholm, Sweden – June 27 th - July 2 nd , 2004
	Webbit 2004 Milano, Italy – June 3 th -4 th , 2004
	Convegno 'Matematica e Cultura' Venezia, Italy – March 26 th -28 th , 2004
2003	DGCI 2003 - Discrete Geometry for Computer Imagery Napoli, Italy – November 19 th -21 st , 2003
	ISGDA 2003, International Symposium on Graphs, Designs and Applications Messina, Italy – September 30^{th} - October 3^{th} , 2003
2002	8 th AHA, Algebraic Hyperstructures and Applications Samothraki, Greece – September 1^{st} -9 th , 2002
	International Congresso of Mathematicians 2002 Beijing, China – August 20 th -28 th , 2002
	6 th Workshop on Combinatorics Messina, Italy – March 25^{th} - 27^{th} , 2002
2001	Sixteenth Summer Conference on Topology and its Applications New York, USA – July 18^{th} - 21^{st} , 2001
	IV Iberoamerican Conference on Topology and its Applications Coimbra, Portugal – April 18^{th} - 21^{st} , 2001
2000	First Turkish International Conference on Topology and Its Applications Istanbul, Turkey – August 2^{nd} - 5^{th} , 2000
1999	5 th Workshop on Combinatorics Messina, Italy – November 8 th -10 th , 1999
	Meeting on Topological Spaces Theory and its Applications Yatsushiro, Japan – August 28^{th} - 29^{th} , 1999
	International Conference on Topology and its Applications Yokohama, Japan – August 23^{th} - 27^{th} , 1999
	7 th International Congress on Algebraic Hyperstructures and Applications Taormina, Italy – June 13^{th} - 19^{th} , 1999
	III Congreso Iberoamericano de Topologia y sus Aplicaciones Gandia, Spain – April 7^{th} - 9^{th} , 1999

1998	IV Workshop on Domain Rolandseck, Germany – October 2 nd -4 th , 1998
	VIII Convegno di Analisi Reale e Teoria della Misura (with a special session on Topology) Maiori, Italy – September 22^{nd} - 26^{th} , 1998
	27 th Workshop of the International School of Mathematics on Convergence and Topology Erice, Italy – June 27^{th} - July 2^{nd} , 1998:
1997	XIV International Congress of Topology Milazzo, Italy – September 15 th -19 th , 1997
1996	VIII Prague Topological Symposium Prague, Czech Republic – August 19 th -23 rd , 1996
1995	Meeting of Topology and Geometry Fermo, Italy – May 26 th -27 th , 1995
1994	XII National Congress of Topology Perugia, Italy – May 13 rd -14 th , 1994
1993	XI International Congress of Topology Trieste, Italy – September 6 th -11 st , 1993

List of Publications

- [1] Mehmood A., Nadeem F., Nordo G., Zamir M., Park C., and Ainhum M.A. Soft s-open sets in soft bi-topological structure concerning crisp points. *Bulletin of the Korean Mathematical Society*, 2020.
- [2] Mehmood A., Saleem A., and Nordo G. Soft α -open set in neutrosophic soft topological spaces. *Journal of Mahani Mathematical Research Center*, 2020.
- [3] Mehmood A., Park C., Nordo G., and Saleem A. Applications of neutrosophic soft β -open set to neutrosophic soft topological spaces. *Communications in Mahtematics and Applications*, 2020.
- [4] Mehmood A., Jamal M., Nordo G., Khan M.Y., , and Zamir M. Parameter density in soft topological spaces. *preprint*, 2020.
- [5] Mehmood A., Nadeem F., Nordo G., Zamir M., Park C., Kalsoom H., Jabeen S., and Khan M.Y. Generalized neutrosophic separation axioms in neutrosophic soft topological spaces. *Neutrosophic Sets and Systems*, 32(1):38–51, 2020.
- [6] Matevossian H.A., Nordo G., and Sako T. Biharmonic problems and their application in engineering and medicine. In Proceedings of II International Forum Ädvances in Composite Science and Technologies- Bauman Moscow State Technical University, pages 12–13, 2020.
- [7] Matevossian H.A., Nordo G., and Vestyak V.A. Behavior of solutions of the cauchy problem and the mixed initial boundary value problem for an inhomogeneous hyperbolic equation with periodic coefficients. *To appera in: Advanced Structured Materials, Springer Nature Switzerland AG*, 2020.
- [8] Nordo G. A soft embedding theorem for soft topological spaces. In *Proceedings of ICoNSoM 2019 International Conference on Nonlinear Solid Mechanics*, 2019.
- [9] Matevossian H.A. and Nordo G. Homogenization of semi-linear elliptic and parabolic operators in perforated domains. In *Book of Abstracts of the International Scientific Workshop "Related Problems of Continuum Mechanics"*, page 19, 2019.
- [10] Khattak A.M., Nadeem F., Zamir M., Nordo G., Park C., and Gul M. Other separation axioms in soft bi-topological space. *Malaya Journal of Matematik*, 07:724–734, 2019.
- [11] Khattak A.M., Nordo G., Zamir M., Park C., Nazia H., Nadeem F., and Shamona J. Soft b-separation axioms in neutrosophic soft topological structures. *Annals of Fuzzy Mathematics and Informatics*, 18:93–105, 2019.
- [12] Nordo G. An embedding lemma in soft topological spaces. In *Proceedings of the International Scientific Conference on Related Problems of Continuum Mechanics*, 2018.
- [13] Nordo G. Soft *n*-topological spaces. In Hovik Matevossian, editor, *Proceedings of the 7th IC-MSQUARE, Internaonal Conference on Mathemacal Modeling in Physical Sciences*, volume 20. MMSE Journal: Mechanics, Materials Science & Engineering, 2018.
- [14] Nordo G. and Maimone A. A note on dimension and gaps in digital geometry. *Filomat*, 31:1215–1227, 2017.
- [15] Nordo G. and Maimone A. 0-gaps on 3d digital curves. *Prikladnaja Matematika I Matematicheskaja Fizika*, 1:119–128, 2015.
- [16] Nordo G. and Maimone A. A formula for the number of (n-2)-gap in digital n-objects. *Filomat*, 27, 2013.
- [17] Nordo G. and Maimone A. On 1-gaps in 3d digital objects. Filomat, 25:85–91, 2011.

- [18] Brimkov V.E., Nordo G., Barneva R.P., and Maimone A. Genus and dimension of digital images and their time and space-efficient computation. *International Journal of Shape Modeling*, 14:147–168, 2008.
- [19] Brimkov V.E., Maimone A., and Nordo G. On the notion of dimension in digital spaces. *Lecture Notes in Computer Science*, 4040:241–252, 2006.
- [20] Brimkov V.E., Maimone A., and Nordo G. Counting gaps in binary pictures. *Lecture Notes in Computer Science*, 4040:16–24, 2006.
- [21] Chang Y.X., Lo Faro G., and Nordo G. The fine structures of three latin squares. *Journal of Combinatorial Designs*, 14:85–110, 2005.
- [22] Brimkov V.E., Maimone A., Nordo G., Barneva R.P., and Klette R. The number of gaps in binary pictures. *Lecture Notes in Computer Science*, 3804:35–42, 2005.
- [23] Brimkov V.E., Maimone A., and Nordo G. http://arxiv.org/abs/cs.dm/0505084.
- [24] Cammaroto F., Kocinac L., and Nordo G. F-hurewicz spaces. *Questions and Answers in General Topology*, 22:23–32, 2004.
- [25] Cammaroto F., Nordo G., and Pasynkov B.A. On magill-type theorems for k-absolute spaces. *International Journal of Mathematics and Mathematical Sciences*, pages 1–10, 2003.
- [26] Lo Faro G., Nordo G., and Porter J.R. On minimal α -spaces. *Commentationes Mathematicae Universitatis Carolinae*, 44(4):727–740, 2003.
- [27] Nordo G. On completion of metric mappings. *Questions and Answers in General Topology*, 21:65–73, 2003.
- [28] Cammaroto F., Nordo G., and Pasynkov B.A. On trivially semi-metrizable and d-completely regular mappings. *Bollettino dell'Unione Matematica Italiana B*, 5-B:197–203, 2002.
- [29] Nordo G. and Pasynkov B.A. Characterizing continuity. *Questions and Answers in General Topology*, 20:39–43, 2002.
- [30] Nordo G., Bludova I.V., and Pasynkov B.A. On the homeomorphism of spaces and magill-type theorems. *Questions and Answers in General Topology*, 19(1):95–105, 2001.
- [31] Nordo G. and Pasynkov B.A. On trivially metrizable mappings. *Questions and Answers in General Topology*, 18(1):117–119, 2000.
- [32] Nordo G. and Pasynkov B.A. Perfect compactifications of functions. Commentationes Mathematicae Universitatis Carolinae, 41(3):619–629, 2000.
- [33] Nordo G. and Cubiotti P. On generalized games in h-spaces. *Commentationes Mathematicae Universitatis Carolinae*, 40(1):175–180, 1999.
- [34] Nordo G. and Bludova I.V. On the posets of all the hausdorff and all the tychonoff compactifications of continuous mappings. *Questions and Answers in General Topology*, 17:47–55, 1999.
- [35] Nordo G. A brief survey on fibrewise general topology. In -, pages 39–49, 28-29 / 08 / 1999. Yatsushiro (Japan).
- [36] Nordo G. The semilattice of compactifications of a tychonoff function. *Filomat*, 12:9–19, 1998.
- [37] Nordo G. Compattificazioni perfette di funzioni, 1998. Ph.D. Dissertation (VIII ciclo).
- [38] Nordo G. An algorithm on number of isomorphisms classes of hypergroups of order 3. *Italian Journal of Pure and Applied Mathematics*, 2:37–42, 1997.
- [39] Nordo G. A basic approach to the perfect extensions of spaces. Commentationes Mathematicae Universitatis Carolinae, 38(3):571–580, 1997.
- [40] Nordo G. A note on perfectification of mappings. *Questions and Answers in General Topology*, 14:107–110, 1996.
- [41] Nordo G., Cammaroto F., Gutierrez J., and De Prada M.A. Introduccion a los espacios h-cerrados principales contribuciones a las formas debiles de compacidad - problemas abiertos. *Mathematicae Notae*, 38:47–77, 1995.
- [42] Nordo G. and Cammaroto F. On product of p-functions. *Atti dell'Accademia Peloritana dei Pericolanti, Classe di Scienze Fisiche Matematiche e Naturali*, LXXII:465–478, 1994.
- [43] Nordo G. and Cammaroto F. On urysohn, almost regular and semiregular functions. *Filomat*, 8:71–80, 1994.

Books

Fazio R. and Nordo G. Introduzione al LaTeX. Apogeo, Milano, 2003. ISBN: 9788850310272.