

DOMENICO GAUDIO
Curriculum Vitae ai fini della pubblicazione

Rome, Italy
15/02/2024

Part II – Education

Type	Year	Institution	Notes
PhD in Structural and Geotechnical Engineering (29° ciclo)	2017	Dipartimento di Ingegneria Strutturale e Geotecnica, Sapienza Università di Roma	Geotechnical Engineering Curriculum Dissertation: <i>Dynamic soil-structure interaction of bridge piers on caisson foundations</i> Grade: Ottimo cum laude Supervisor: Prof. S. Rampello
Master of Science (Laurea Magistrale LM-23 – Ordin. 2011 Ingegneria Civile)	2013	Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma	Civil Engineering - Geotechnical Engineering Curriculum Dissertation: <i>A performance-based approach to design reinforced-earth retaining walls</i> Grade: Top grade with honors (110/110 cum laude) Supervisor: Prof. S. Rampello
Bachelor Degree (Laurea Triennale L-509 - Ordin. 2000 Ingegneria Civile)	2010	Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma	Civil Engineering Grade: Top grade (110/110)

Part III – Appointments

III A – Academic Appointments

Start	End	Institution	Position
Feb. 2023	Feb. 2034	Ministero dell'Università e della Ricerca (MUR)	<i>Italian Qualification as Associate Professor in Geotechnical Engineering</i> (Abilitazione Scientifica Nazionale alle funzioni di professore universitario di Seconda Fascia nel Settore Concorsuale 08/B1 - GEOTECNICA)
Jan. 2023	July 2023	Department of Engineering, University of Cambridge, United Kingdom	<i>Academic Visitor</i> Research topic: Dynamic centrifuge testing of Offshore Wind Turbines on liquefiable soils
Dec. 2021	Dec. 2024	Dipartimento di Ingegneria Strutturale e Geotecnica, Sapienza Università di Roma	<i>Assistant Professor (Untenured) – Ricercatore a Tempo Determinato RTD-A</i> Research topic: Foundations of offshore wind turbine with a low environmental impact: dynamic centrifuge testing and 3D FE modelling
Mar. 2021	Dec. 2021	Dipartimento di Ingegneria Strutturale e Geotecnica, Sapienza Università di Roma	<i>Research Fellow (Assegnista di Ricerca)</i> Research topic: Seismic performance of slopes
Mar. 2019	Nov. 2020	Department of Engineering, University of Cambridge, United Kingdom	<i>Research Associate</i> Research topic: Seismic behaviour of embedded foundations
May 2018	June 2018	Dipartimento di Ingegneria Civile e Ambientale, Politecnico di Milano	<i>Self-employed Researcher</i> Research topic: Modelling of flow-like landslides propagation and runout
Mar. 2017	Feb. 2019	Dipartimento di Ingegneria Strutturale e Geotecnica, Sapienza Università di Roma	<i>Research Collaborator</i> Research topic: Nonlinear dynamic SSI of caisson foundations

III B – Other Appointments

Start	End	Institution	Position
Jan. 2024	Jan. 2027	International Geosynthetics Society (IGS) Young Member Committee	<i>Chair of Europe</i>
Sept. 2023	ongoing	Italian Geotechnical Society (Associazione Geotecnica Italiana, AGI)	<i>Single author of the chapter “Caisson foundations” for the latest version of “Guidelines on the Geotechnical Aspects of the design in seismic areas” (Linee Guida - Aspetti geotecnici della progettazione in zona sismica)</i>
Jan. 2023	Jan. 2026	Ordine degli Ingegneri (Italian Institution of Civil Engineers) della Provincia di Roma	<i>Vice-President for the Geotechnical Committee</i>
Jan. 2023	July 2023	Gavin & Doherty Geosolutions (GDG) Ltd., Dublin, Ireland	<i>Researcher Consultant</i>

III C – Organisation of Conferences and Symposia

Jan. 2024	June 2024	Incontro Annuale Giovani Ingegneri Geotecnici 2024 (IAGIG) (Annual Meeting of Young Geotechnical Engineers) Turin, Italy, 7-8 June	<i>Member of the Scientific Committee</i>
Jan. 2023	Sept. 2023	12 th International Conference on Geosynthetics (12ICG), Rome, Italy, 17-21 September	<i>Member of the Young Member Committee (YMC)</i>
Jan. 2023	June 2023	Incontro Annuale Giovani Ingegneri Geotecnici 2023 (IAGIG) (Annual Meeting of Young Geotechnical Engineers) Padua, Italy, 31 May-1 June	<i>Member of the Scientific Committee</i>
Jan. 2022	July 2022	Incontro Annuale Giovani Ingegneri Geotecnici 2022 (IAGIG) (Annual Meeting of Young Geotechnical Engineers) Reggio di Calabria, Italy, 11 July	<i>Member of the Scientific Committee</i>
Jan. 2021	Sept. 2021	Incontro Annuale Giovani Ingegneri Geotecnici 2021 (IAGIG) (Annual Meeting of Young Geotechnical Engineers) Pisa, Italy, 3-4 September	<i>Member of the Scientific Committee</i>

Part IV – Teaching experience

IV A – Master of Engineering (Laurea Magistrale) Courses and Lectures

Year	Institution	Course
2023-2024	Sapienza Università di Roma – Latina (Laurea Magistrale LM-35)	<i>Geotecnica (Soil Mechanics)</i> (6 CFU, 60 hours, code 1018582)
2022-2023	Sapienza Università di Roma – Latina (Laurea Magistrale LM-35)	<i>Geotecnica (Soil Mechanics)</i> (6 CFU, 60 hours, code 1018582)

Year	Institution	Lecture
2021-2022	Sapienza Università di Roma – Latina (on behalf of Dr. L. Masini) (Laurea Magistrale LM-35)	<i>Fondazioni e opere di sostegno (Foundations Engineering and Earth-Retaining Structures)</i> (0.6 CFU, 6 hours in total)
2019-2022	Politecnico di Milano (on behalf of Prof. G. Della Vecchia) (Laurea Magistrale ord. 270 - MI (488) Ingegneria Civile)	<i>Finite Element Analysis in Geotechnical Earthquake Engineering</i> (2 CFU, 20 hours in total)

IV B – PhD Courses

Year	Institution	Course
2021-2022	Università degli Studi di Messina and Mediterranea Reggio Calabria PhD in Geotechnical Engineering	<i>Dynamic Soil-Structure Interaction: from limit analysis to advanced dynamic computation</i> (1.67 CFU, 10 hours)
2021-2022	Università degli Studi di Messina and Mediterranea Reggio Calabria PhD in Geotechnical Engineering	<i>Finite Element Analysis in Geotechnical Earthquake Engineering</i> (1 CFU, 6 hours)

IV C – Assistantship (Meng Courses = Corsi di Laurea Magistrale)

Year	Institution	Course
2021-ongoing	Sapienza Università di Roma	<i>Culture della materia</i> for the courses <i>Deep Excavations and Tunnelling in Urban Environment</i> and <i>Foundations Engineering and Earth-Retaining Structures</i>
2016-2023	Sapienza Università di Roma (on behalf of Prof. S. Rampello) (Laurea Magistrale LM-23)	<i>Scavi e gallerie in area urbana (Deep Excavations and Tunnelling in Urban Environment)</i> (6 CFU, 60 hours)
2014-ongoing	Sapienza Università di Roma (on behalf of Prof. S. Rampello) (Laurea Magistrale LM-23)	<i>Fondazioni e opere di sostegno (Foundations Engineering and Earth-Retaining Structures)</i> (12 CFU, 120 hours)

IV D – Supervision and co-supervision of Research

Supervisor (relatore)

Year	Institution	MEng Thesis as Supervisor
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	C. Passeri - <i>Kinematic effects on interaction domains for caisson foundations</i>
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	M. Kukulka - <i>Assessment of seismic performance of slopes through advanced numerical analyses</i>
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	F. Lavagnini - <i>Evaluation of the mechanical properties of finite elements plate representing sheet piles for deep excavations in urban areas</i>

Co-supervisor (correlatore)

Year	Institution	MEng Thesis as co-supervisor
2021-2022	Politecnico di Milano (Supervisor Prof. G. Della Vecchia) (Laurea Magistrale ord. 270 - MI 488 Ingegneria Civile)	F. Murillo Roldòs - <i>Numerical simulation of dynamic centrifuge tests on the seismic performance of caisson foundations supporting bridge piers</i>
2020-2021	Università degli studi di Roma Tor Vergata (supervisor Prof R. Conti) (Laurea Magistrale D.M. 270/04 in Ingegneria Civile)	R Ronci - <i>Theoretical and numerical study on the effectiveness of drains on mitigating the liquefaction hazard</i>
2019-2020	Università degli studi di Roma Tor Vergata (supervisor Prof R. Conti) (Laurea Magistrale D.M. 270/04 in Ingegneria Civile)	G Lombardi and R Mazzola - <i>Theoretical and numerical study of liquefaction phenomena in sandy soils</i>
2018-2019	Sapienza Università di Roma (supervisor Prof. S. Rampello) (Laurea Magistrale LM-23)	A. Rosati - <i>Interaction domains for caisson foundations</i>
2017-2018	Politecnico di Milano (Supervisor Prof. C. G. M. Di Prisco) (Laurea Magistrale)	E. Rovelli - <i>Numerical analysis of flowslides propagation</i>
2017-2018	Sapienza Università di Roma (supervisor Prof. S. Rampello) (Laurea Magistrale LM-23)	R. Rauseo - <i>Assessment of seismic-induced displacements in slopes</i>
2017-2018	Sapienza Università di Roma (supervisor Prof. S. Rampello) (Laurea Magistrale LM-23)	S. Fontana - <i>Equivalence between the pseudo-static and the Newmark's method for slope stability analysis under seismic loading</i>

2017-2018	Sapienza Università di Roma (supervisor Prof. S. Rampello) (Laurea Magistrale LM-23)	B. De Santis - <i>Reduction of embankment settlement through deep-cement soil mixing</i>
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IV E – Service as Examiner for PhD and Master Thesis Defence

Year	Institution	PhD Dissertation as External Examiner
2020-2021	Politecnico di Torino (Supervisor Prof. S. Foti) (Doctoral Program in Civil and Environmental Engineering – 33 rd Cycle)	A. Ciancimino - <i>Performance of caisson foundations subjected to flood-induced scour</i>
Year	Institution	MEng Thesis as Examiner
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	C. Passeri - <i>Kinematic effects on interaction domains for caisson foundations</i>
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	M. Kukulka - <i>Assessment of seismic performance of slopes through advanced numerical analyses</i>
2021-2022	Sapienza Università di Roma (Laurea Magistrale LM-23)	F. Lavagnini - <i>Evaluation of the mechanical properties of finite elements plate representing sheet piles for deep excavations in urban areas</i>

Part V – Society memberships, Awards and Honors

V A – Society memberships

Year	Society
2022	European Association for Earthquake Engineering (EAEE)
2022	Member of the IGS Young Member's committee
2022	Italian Chapter of the International Geosynthetics Society (AGI-IGS)
2021	Gruppo Nazionale di Ingegneria Geotecnica (National Association of Geotechnical Engineering, GNIG)
2020	Society for Earthquake and Civil Engineering Dynamics (SECED)
2019	Cambridge University Geotechnical Society (CUGS)
2014	International Society for Soil Mechanics and Earthquake Engineering (ISSMGE)
2014	Italian Geotechnical Society (AGI)
2014	Chartered Civil Engineer - Ordine degli Ingegneri (Italian Institution of Civil Engineers) - Albo degli Ingegneri della Provincia di Roma n A 34752

V B – Awards and Honors

Year	Award/Honor
2024	Recipient of the Scholarship delivered by the Italian Geotechnical Society (AGI) for attending and presenting a paper at the 28 th European Young Geotechnical Engineering Conference (EYGEC), Demir Kapija (North Macedonia), 25-29 June 2024
2022	Top Cited Article in Earthquake Engineering and Structural Dynamics 2020-2021
2022	Recipient of the Scholarship delivered by the Australian Geomechanics Society (AGS) for attending and presenting a paper at the 20 th International Conference on Soil Mechanics and Geotechnical Engineering (ICMSG2022), Sydney 1-5 May 2022
2020	IGS Student Award as Representative of Italy delivered by the International Geosynthetics Society (IGS) at the 7 th European Geosynthetics Conference (EuroGeo7), Warsaw Poland
2020	Designated by the Italian Geotechnical Society (AGI) for the Bright Spark Lecture Award ISSMGE – ICSMGE 2022, Sydney 1-5 May 2022
2014	Special mention for the Master's Thesis "A performance-based approach to design reinforced-earth retaining walls " in the Sixth National Award AGI-IGS
2014	Excellent Graduate Student Award delivered from Sapienza Foundation for students of the Master Engineering in Civil Engineering 2012-2013 at Sapienza Università di Roma
2012	Ranked first in the Excellence Path Program of the Master's Degree in Civil Engineering, Sapienza Università di Roma, for students with outstanding academic performance

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

VI A – European Union's Horizon 2020 Research and Innovation programme

Principal Investigator (PI)

Year	Title	Program	Grant value
2024	CHAMPIONS - Centrifuge tests on impact HAMmering installation of Monopiles to investigate Pile run in transitiONal Soils	GeoLab Hosting facility TU Delft funded by European Union H2020 Research and Innovation Programme (grant agreement no. 101006512)	

VI B – Italian Research Agencies

Principal Investigator (PI)

Year	Title	Program	Grant value
2021	Assessment of the seismic performance of slopes	Progetto Avvio alla Ricerca tipo funded by Sapienza Università di Roma	

Investigator (I)

Year	Title	Program	Grant value
2024-2027	Application of DIssipative Tie-rods in masonry buildings (ADITI)	Progetti di Ricerca Grandi funded by Sapienza Università di Roma, PI Dr. Linda Giresini	
2022 - current	Interazione terreno-fondazione-struttura (Soil-Foundation-Structure Interaction)	Progetto di Ricerca DPC – ReLUIS (WP 16.3) (Consortium of Italian University and Industry), PI Prof. Sebastiano Rampello	
2021-2023	Innovative approaches to the analysis of tunnelling-induced damage to masonry structures	Progetti di Ricerca Medi funded by Sapienza Università di Roma, PI Prof. Angelo Amorosi	
2019-2021	Interazione terreno-fondazione-struttura (Soil-Foundation-Structure Interaction)	Progetto di Ricerca DPC – ReLUIS (WP 16.3) (Consortium of Italian University and Industry), PI Prof. Sebastiano Rampello	
2017-2018	Stabilità dei pendii e liquefazione (Slope Stability and Liquefaction)	Progetto di Ricerca DPC – ReLUIS (WP 2) (Consortium of Italian University and Industry), PI Prof. Sebastiano Rampello	

2015	Dynamic Soil-Structure interaction of caisson foundations of bridge piers	Progetto Avvio alla Ricerca: funded by Sapienza Università di Roma, PI Dr. Luca Masini	
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VI C – Industry

Investigator (I)

Year	Title	Program	Grant value
2023	Studi di interazione linea – monumenti della tratta T2 della Linea C della metropolitana di Roma	Metro C S.c.p.A. through Sapienza University of Rome, PI Prof. Sebastiano Rampello	-
2022-2024	Analisi e interpretazione dei dati di monitoraggio di una galleria naturale da realizzarsi in formazioni strutturalmente complesse	Quadrilatero Marche Umbria S.p.A. through Sapienza University of Rome, PI Prof. Sebastiano Rampello	-
2022	Valutazione preliminare della fattibilità della soluzione in rilevato per l'adeguamento alla terza corsia della tratta autostradale di barriera di Roma Est, pk 8+800, e l'interconnessione con l'autostrada A1, pk 10+500.	InfraEngineering through Sapienza Università di Roma, PI Prof. Sebastiano Rampello	-
2020-2022	Investigation of a circular raft foundation founded on liquefiable sand layer under seismic loading	Adani Green Energy Ltd. through University of Cambridge, PI Prof. Gopal Madabhushi	-

Part VII – Research Activities

Keywords

Design of caisson foundations under seismic loading

Brief Description

Study of the seismic behaviour of rigid and massive caisson foundations, with particular reference to bridge piers subjected to ground motions capable of activating plastic mechanisms within the foundation soils.

Over the years, this research theme has been covered via advanced 3D Finite Element (FE) modelling and dynamic centrifuge testing.

Interaction domains for caisson foundations have also been derived both under static and pseudo-static conditions, together with the relevant analytical relationships.

Seismic performance of offshore and onshore wind turbines foundations

Study of the seismic behaviour of both offshore and onshore wind turbines resting on liquefiable soils. Different foundation systems were considered, such as a raft for the onshore turbine and both a monopile and suction caissons for the offshore case. Modelling was carried out both via advanced 3D coupled (*u-p*) FE modelling in *OpenSees* and dynamic centrifuge testing.

Installation of Monopiles in transitional soils

In the framework of the GeoLab project recently awarded, the problem of hammering installation of monopiles in transitional soils, such as silty sand deposit, will be studied via centrifuge tests at *TU Delft*, the Netherlands.

Seismic behaviour of geosynthetic-reinforced earth retaining walls and slopes

Development of a Performance-Based Design for Geosynthetic-Reinforced Earth Retaining Walls subjected to strong ground motions. Design charts were proposed, which were obtained via analytical relationships (Limit Analysis) and dynamic Finite Difference analyses.

Liquefaction	Development of simplified methods for the prediction of pore pressure build up developing within liquefiable soils (<i>i.e.</i> , loose and saturated sandy soils) subjected to seismic loading. The method has been implemented in a Finite Difference Matlab routine, also taking into account the partial drainage conditions characterising the response of saturated sandy deposits when subjected to an earthquake.
Debris flow propagation	Modelling of flow-like landslides propagation and runout through the <i>Smoothed-Particle Hydrodynamics (SPH)</i> method - numerical modelling with the <i>GeoFlow SPH code</i> .

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Journal papers	11	Scopus (last access 15/02/2024)	2018	2024
Conference papers	9	Scopus (last access 15/02/2024)	2016	2023
Journal+Conference	20	Scopus (last access 15/02/2024)	2016	2024

Total Impact factor	44.114
Average Impact factor	4.010 (= 44.114/11 papers with impact factor)
Total Citations	153
Average Citations per Product	7.65 (= 153/20)
Hirsch (H) index	7
Normalized H index*	1.0 (= 7 /7 years from PhD Degree)

*H index divided by the academic seniority, evaluated starting from the PhD Degree (2017)

Part IX – Selected Publications

List of the publications selected for the evaluation. For each publication title, authors, reference data, journal IF (if applicable), citations, press/media release (if any), are reported.

	Paper	Impact Factor at the year of publication (Journal of Citation Report database)	n°citations (Scopus database at 15/02/2024)
	JOURNAL PAPERS		
P1	Gaudio D., Madabhushi G.S.P., Rampello S., Viggiani G.M.B. (2024). Equivalent fundamental period of bridge piers on caisson foundations from dynamic centrifuge testing. <i>Soil Dynamics and Earthquake Engineering</i> , 177, 108408, DOI: https://doi.org/10.1016/j.soildyn.2023.108408	4.000	0
P2	Gaudio D., Seong J., Haigh S., Viggiani G. M. B., Madabhushi G. S. P., Shrivatsava R., Veluvolu R., Padhy P. (2024). 3D coupled Finite Element analyses of the seismic performance of onshore wind turbines on liquefiable soils. <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , ASCE, DOI: https://doi.org/10.1061/JGGEFK/GTENG-11807	3.900	0
P3	Gaudio D., Seong J., Haigh S., Viggiani G. M. B., Madabhushi G. S. P., Shrivatsava R., Veluvolu R., Padhy P. (2023). Boundary effects on dynamic centrifuge modelling of onshore wind turbines on liquefiable soils. <i>International Journal of Physical Modelling in Geotechnics</i> , ICE Publishing, 23 (1), 16-34, ISSN: 1346-213X, DOI: https://doi.org/10.1680/jphmg.21.00085	1.900	6
P4	Rosati A., Gaudio D., di Prisco C., Rampello S. (2023). Use of interaction domains for a displacement based design of caisson foundations. <i>Acta Geotechnica</i> , 18 (1), 445-468, ISSN: 1861-1125, DOI: https://doi.org/10.1007/s11440-022-01547-z	5.700	5
P5	Gaudio D., Madabhushi G.S.P., Rampello S., Viggiani G.M.B. (2022). Experimental investigation of the seismic performance of caisson foundations supporting bridge piers. <i>Géotechnique</i> , Thomas Telford Ltd, 1-16, ISSN: 0016-8505, DOI: https://doi.org/10.1680/jgeot.22.00076	5.800	3
P6	Gaudio D., Rampello S. (2021). On the assessment of seismic performance of bridge piers on caisson foundations subjected to strong ground motions, <i>Earthquake Engineering and Structural Dynamics</i> , 50 (5), 1429-1450, DOI: http://dx.doi.org/10.1002/eqe.3407	4.060	14

P7	Masini L., Gaudio D., Rampello S., Romani E. (2021). Observed performance of a deep excavation in the historical centre of Rome, <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , ASCE, 147 (2), 05020015, 1-12, DOI: http://dx.doi.org/10.1061/(ASCE)GT.1943-5606.0002465	4.600	18
P8	Gaudio D., Rauseo R., Masini L., Rampello S. (2020). Semi-empirical relationships to assess the seismic performance of slopes from an updated version of the Italian seismic database, <i>Bulletin of Earthquake Engineering</i> , 18 (14), 6245-6281, DOI: https://doi.org/10.1007/s10518-020-00937-6	3.827	15
P9	Gaudio D., Rampello S. (2020). Equivalent seismic coefficients for caisson foundations supporting bridge piers, <i>Soil Dynamics and Earthquake Engineering</i> , 129, 105955, DOI: https://doi.org/10.1016/j.soildyn.2019.105955	3.718	14
P10	Gaudio D., Rampello S. (2019). The influence of soil plasticity on the seismic performance of bridge piers on caisson foundations, <i>Soil Dynamics and Earthquake Engineering</i> , 118, 120-133, DOI: https://doi.org/10.1016/j.soildyn.2018.12.007	2.637	22
P11	Gaudio D., Masini L., Rampello S. (2018). A performance-based approach to design reinforced-earth retaining walls, <i>Geotextiles and Geomembranes</i> , 46 (4), 470-485, DOI: https://doi.org/10.1016/j.geotexmem.2018.04.003	3.972	27
	PROCEEDINGS OF CONFERENCES		
P12	Boccheri G., Gaudio D., Conti R. (2023). A 1D Simplified Approach for Liquefaction Potential Evaluation of Soil Deposits. In: Ferrari, A., Rosone, M., Ziccarelli, M., Gottardi, G. (eds) <i>Geotechnical Engineering in the Digital and Technological Innovation Era</i> . CNRIG 2023. Springer Series in Geomechanics and Geoengineering, Springer, Cham: 410-418, Palermo, 5-7 luglio. https://doi.org/10.1007/978-3-031-34761-0_50	-	0

APPENDIX

Part X – Other Publications

List of publications no to consider for evaluation.

	SUBMITTED TO REFERRED JOURNALS
	Gaudio D., Passeri C., Rampello S. (2024). Interaction domains for caisson foundations under seismic loading. <i>Computers & Geotechnics</i> (submitted for evaluation)
	Bocchieri G., Gaudio D., Conti R. (2024). A simplified method for the estimation of earthquake-induced pore pressures. <i>Computers and Geotechnics</i> (under revision for invited resubmission)
	BOOK CHAPTERS
1.	Rampello S., Gaudio D. (2018). Prestazione sismica dei pozzi di fondazione. In <i>Analisi e progetto delle opere geotecniche in zona sismica</i> , Conferenze di Geotecnica di Torino, XXV Cicle, 1-42, Politecnico di Torino (Ed.), ISBN 978-88-85745-19-3 – Invited Lecture
	INVITED PAPERS IN CONFERENCES
2.	Gaudio D., Masini L., Rampello S. (2022). Seismic design of geosynthetic-reinforced earth retaining walls following a pseudo-static approach. In <i>7th European Geosynthetics Conference</i> , IOP Conference Series: Materials Science and Engineering, 1260 (1): 1-11, DOI: 10.1088/1757-899X/1260/1/012021, Warsaw, Poland – Invited Lecture
3.	Gaudio D., Masini L., Rampello S. (2021). Progettazione sismica di muri in terra rinforzata secondo un approccio prestazionale. XXXI Convegno Nazionale Geosintetici – Sostenibilità, aspetti ambientali e cambiamenti climatici, Bari, Pàtron Ed., Bologna 2021, ISBN 9788855535359 – Invited Lecture
	PROCEEDINGS OF INTERNATIONAL CONFERENCES
4.	Gaudio D., Batilas A. B., Lapastoure L. M., Loukas A., Lee J., Joseph T., Thusyanthan I. (2024). Insight into modelling offshore monopiles via 3D finite element analyses. <i>Proceedings of the XVIII ECSMGE 2024 – Geotechnical Engineering Challenges to meet Current and Emerging Needs of Society</i> , Lisbon, Portugal, August 26-30: 1-6. ISBN 978-1-032-54816-6 (submitted)
5.	Gaudio D., Madabhushi G.S.P., Rampello S., Viggiani G.M.B. (2024). On the fundamental period of bridge piers on caisson foundations. In <i>Proceedings of the 8th International Conference on Earthquake Geotechnical Engineering (8 ICEGE)</i> , Osaka, Japan, May 7-10 (accepted)
6.	Bocchieri G., Gaudio D., Ronci R., Conti R. (2024). Development of a simplified method for the assessment of liquefaction mitigation via vertical gravel drains. In <i>Proceedings of the 8th International Conference on Earthquake Geotechnical Engineering (8 ICEGE)</i> , Osaka, Japan, May 7-10 (accepted)
7.	Bocchieri G., Gaudio D., Conti R. (2022). A simplified method for the estimation of earthquake-induced pore pressures. In <i>Geotechnical Engineering for the Preservation of Monuments and Historic Sites III - Proceedings of the 3rd International ISSMGE TC301 Symposium</i> , Chapter: 62 Publisher: CRC Press - Taylor and Francis Group, Naples, Italy, June 22-24: 812-822, DOI: 10.1201/9781003308867-62

8.	Gaudio D., Seong J., Haigh S.K., Viggiani G.M.B., Madabhushi G.S.P. (2023). 3D nonlinear dynamic Finite Element analysis of onshore wind turbines on pile foundation resting on liquefiable soils. Zdravkovic L, Kontoe S, Taborda DMG, Tsiampousi A (eds) - Proceedings of 10 th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2023), London, United Kingdom, June 26-28: 1-6. DOI: 10.53243/NUMGE2023-159
9.	Gaudio D., Murillo F. (2023). Numerical back-analysis of dynamic centrifuge tests on the seismic behaviour of caisson foundations supporting bridge piers. In 9 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2023), M. Papadrakakis, M. Fragiadakis (eds.), Athens, Greece, June 12-14: 1-9. DOI: 10.7712/120123.10609.20568
10.	Gaudio D., Seong J., Haigh S.K., Viggiani G.M.B., Madabhushi G.S.P. (2022). Assessment of boundary effects of the Equivalent Shear Beam container for dynamic centrifuge testing of liquefiable soils. 2022 Korean Geotechnical Society (KGS), Seoul, Korea, ISBN 978-89-952197-7-5 - Proceedings of 10 th International Conference on Physical Modelling in Geotechnics (ICPMG 2022), Daejeon, South Korea, September 19-23: 237-240
11.	Gaudio D., Rampello S., Madabhushi G.S.P., Viggiani G.M.B. (2022). The role of seismic intensity on the performance of caisson foundations supporting bridge piers: preliminary results from dynamic centrifuge testing. In Proceedings of the 3 rd International Conference on Natural Hazard & Infrastructure (ICONHIC 2022), Athens, Greece, July 5-7
12.	Rosati A., Gaudio D., di Prisco C.G., Rampello S. (2022). Bearing capacity of caisson foundations under combined loading. In Proceedings of the 20 th International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE), Sydney, New South Wales, Australia, May 1-5
13.	Gaudio D., Rampello S. (2021). Soil-caisson-bridge pier-deck dynamic interaction under strong earthquakes. In 8 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, M. Papadrakakis, M. Fragiadakis (eds.). COMPDYN 2021, 2: 3645-3657, DOI:10.7712/120121.8736.19195
14.	Gaudio D., Masini L., Rampello S. (2021). A procedure to design geosynthetic-reinforced earth retaining walls under seismic loadings. In Proceedings of the 16 th International Conference of the International Association for Computer Methods and Advances in Geomechanics, M. Barla et al. (Eds.), May 05-08, 2021, Turin, Italy: 1-9, Springer Nature Switzerland AG 2021, DOI:10.1007/978-3-030-64518-236
15.	Gaudio D., Rampello S. (2019). A simplified procedure for the evaluation of the seismic performance of bridge piers on caisson foundations. In 7 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, M. Papadrakakis, M. Fragiadakis (eds.). COMPDYN 2019, 1: 1946-1956, DOI:10.7712/120119.7048.19755. https://2019.compdyn.org/proceedings/pdf/19755.pdf
16.	Gaudio D., Rampello S. (2019). The role of soil constitutive modelling on the assessment of seismic performance of caisson foundations. In Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions, Silvestri & Moraci (Eds). 7 th International Conference on Earthquake Geotechnical Engineering - 7ICEGE Rome 2019: 2574-2582, Taylor & Francis Group – CRC Press, ISBN 978-0-367-14328-2, DOI:10.1201/9780429031274

17.	Gaudio D., Masini L., Rampello S. (2018). Seismic performance of Geosynthetic-Reinforced Earth retaining walls subjected to strong ground motions. Proceedings of China-Europe Conference on Geotechnical Engineering, (Eds. W. Wu & H.S. Yu) Springer Series in Geomechanics and Geoengineering, 2: 1474-1478, ISSN 1866-8755, ISBN 978-3-319-97114-8, DOI:10.1007/978-3-319-97115-5_126
18.	Gaudio D., Rampello S. (2016). Dynamic soil-structure interaction of bridge-pier caisson foundations. In Geotechnical engineering in multidisciplinary research: from microscale to regional scale CNRIG2016. VI Italian Conf. of Researchers in Geotechnical Engineering, Procedia Engineering 158 (2016): 146-151, Elsevier, DOI: 10.1016/j.proeng.2016.08.420
19.	Gaudio D., Rampello S. (2016). Seismic behaviour of a caisson supporting a bridge pier. In Dynamic Interaction of Soil and Structure, DISS_15, Proc. of the 4 th International Workshop, Rome, Italy, November 12-13 2015, Eds. G. Monti, G. Valente, ISBN 978-88-940114-2-5
	PROCEEDINGS OF NATIONAL CONFERENCES
20.	Gaudio D., Rampello S. (2017). The role of seismic input on the performance of bridge piers on cylindrical caisson foundations. In L'Ingegneria Sismica in Italia, XVII Convegno ANIDIS (Associazione Nazionale Italiana di Ingegneria Sismica): SG02 13-23, Pistoia, Italy, ISBN 978-886741-8541
21.	Gaudio D., Rampello S. (2017). Valutazione del coefficiente sismico equivalente per i pozzi di fondazione di pile da ponte. In La Geotecnica nella Conservazione e Tutela del Patrimonio Costruito, XXVI Convegno Nazionale di Geotecnica, Roma 2017, Associazione Geotecnica Italiana (AGI), Rome, Italy, 2: 917-925, ISBN 978-88-97517-09-2
	PROCEEDINGS – ATTI DI COMUNICAZIONE A CONGRESSO
22.	Boccheri G., Gaudio D., Conti R. (2022). Development of a simplified method for the estimation of seismic-induced excess pore water pressures under undrained conditions. Incontro Annuale dei ricercatori di Geotecnica, IARG 2022, Caserta, September 7-9: 1-6
23.	Gaudio D., Madabhushi G.S.P., Rampello S., Viggiani G.M.B. (2021). Centrifuge testing of bridge piers on caisson foundations subjected to strong ground motions. Incontro Annuale dei ricercatori di Geotecnica, IARG 2021, <i>online</i> : 1-6
24.	Gaudio D., Vescovi D., di Prisco C. (2018). Analisi di propagazione di movimenti gravitativi rapidi lungo versanti naturali. Incontro Annuale dei ricercatori di Geotecnica, IARG 2018, Genova, AGI-Associazione Geotecnica Italiana, ISBN 9788897517016
25.	Gaudio D., Masini L., Rampello S. (2018). Una procedura per il dimensionamento di muri in terra rinforzata soggetti ad eventi sismici intensi. Incontro Annuale dei ricercatori di Geotecnica, IARG 2018, Genoa, Italy, AGI-Associazione Geotecnica Italiana, ISBN 9788897517016
26.	Gaudio D., Rampello S. (2017). Influenza dell'input sismico sulla prestazione di pile da ponte fondate su pozzi. Incontro Annuale dei ricercatori di Geotecnica, IARG 2017, Matera, Italy Ed. Universosud, ISBN 978-88-99432-30-0
	PH.D. DISSERTATION
27.	Gaudio D. (2017). Interazione dinamica terreno struttura di pozzi di fondazione di pile di ponti e viadotti. Sapienza Università di Roma (in Italian), https://iris.uniroma1.it/retrieve/handle/11573/947638

Part XI – Presentations

XI A – Invited Lectures

Date	Conference	Title
Sept. 2022	7 th European Geosynthetics Conference (EuroGeo7), Warsaw, Poland	Seismic design of geosynthetic-reinforced earth retaining walls following a pseudo-static approach
Oct. 2021	XXXI Convegno Nazionale Geosintetici – Sostenibilità, aspetti ambientali e cambiamenti climatici, SAIE, Bari	Progettazione sismica di muri in terra rinforzata secondo un approccio prestazionale

XI B – Invited seminars

Date	Institution	Title
Feb. 2024	ANAS S.p.A. - Azienda Nazionale Autonoma delle Strade Statali, Rome, Italy	La progettazione delle fondazioni a pozzo: storia e recenti prospettive
Sept. 2023	Ordine degli Ingegneri (Italian Institution of Civil Engineers) della Provincia di Roma, Rome, Italy	Il ruolo del comportamento dei terreni a piccole deformazioni nelle applicazioni sismiche
Jul. 2023	Gavin & Doherty Gesolutions (GDG) Ltd., Dublin, Ireland (<i>online</i>)	Finite Element Analysis in Geotechnical Earthquake Engineering – 3D Examples
Jun. 2023	University of Oxford, Oxford, United Kingdom	Numerical methods for the assessment of earthquake-induced pore pressures in liquefiable soils
Apr. 2023	Gavin & Doherty Gesolutions (GDG) Ltd., Dublin, Ireland (<i>online</i>)	A reversed Capacity Design for geotechnical structures subjected to strong earthquakes: the case of caisson foundations supporting bridge piers
Mar. 2023	Ordine degli Ingegneri (Italian Institution of Civil Engineers) della Provincia di Roma, Rome, Italy	Interazione dinamica terreno-pozzi di fondazione
Mar. 2023	Cambridge University Geotechnical Society (CUGS), Cambridge, United Kingdom	Ultimate response of caisson foundations for a Performance-Based Design of bridges
Apr. 2021	Gruppo Geotecnici a Roma (Geotechnical Society in Rome), Rome, Italy (<i>online</i>)	Interazione dinamica terreno-struttura dei pozzi di Fondazione di pile da ponte: modellazione numerica e osservazioni sperimentali

Oct. 2020	Cambridge University Geotechnical Society (CUGS), Cambridge, United Kingdom (<i>online</i>)	Capacity design of geotechnical structures: recent advances and future perspectives
Jul. 2020	Università degli Studi di Roma Tor Vergata, Rome, Italy (<i>online</i>)	Seismic behaviour of caisson foundations supporting bridge piers: numerical vs. physical modelling
Apr. 2020	Society for Earthquake and Civil Engineering Dynamics (SECED), associated to the Institution of Civil Engineers (ICE)	Taking advantage of soil plastic mechanisms in the seismic design of geotechnical systems
Feb. 2018	Politecnico di Milano, Milan, Italy	Dynamic Soil-Structure Interaction of Bridge Piers on Caisson Foundations

XI C – Workshops and Conferences

Date	Conference	Title
Jul. 2023	VIII Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica (CNRIG), Palermo, Italy	A 1D Simplified Approach for Liquefaction Potential Evaluation of Soil Deposits
Jun. 2023	10 th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2023), London, UK	3D nonlinear dynamic Finite Element analysis of onshore wind turbines on pile foundation resting on liquefiable soils
Jun. 2023	11 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2023), Athens, Greece	Numerical back-analysis of dynamic centrifuge tests on the seismic behaviour of caisson foundations supporting bridge piers
Jul. 2022	2 nd Eurasian OpenSees Days, Turin, Italy	The role of ground motion properties on the seismic response of Onshore Wind Turbines on liquefiable soils
Jul. 2022	3 rd International Conference on Natural Hazard & Infrastructure, ICONHIC 2022, Athens, Greece	The role of seismic intensity on the performance of caisson foundations supporting bridge piers: preliminary results from dynamic centrifuge testing.
May 2022	20 th International Conference on Soil Mechanics and Geotechnical Engineering (ICSMGE), Sydney, Australia	Bearing capacity of caisson foundations under combined loading
Nov. 2021	Incontro Annuale dei Ricercatori di Geotecnica (IARG), <i>online</i>	Centrifuge testing of bridge piers on caisson foundations subjected to strong ground motions

Jan. 2020	Winter School – From research to practice in geotechnical engineering, Monte Verità, Ascona, Switzerland	Seismic performance of caisson foundations supporting bridge piers
Jun. 2019	7 th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2019), Heraklion, Crete, Greece	A simplified procedure for the evaluation of the seismic performance of bridge piers on caisson foundations
Jun. 2019	7th International Conference on Earthquake Geotechnical Engineering - 7ICEGE, Rome, Italy	The role of soil constitutive modelling on the assessment of seismic performance of caisson foundations
Jul. 2018	Incontro Annuale dei Ricercatori di Geotecnica (IARG), Genoa, Italy	Analisi di propagazione di movimenti gravitativi rapidi lungo versanti naturali
Sept. 2017	L'Ingegneria Sismica in Italia, XVII Convegno ANIDIS (Italian National Society of Earthquake Engineering), Pistoia, Italy	The role of seismic input on the performance of bridge piers on cylindrical caisson foundations
Jul. 2017	Incontro Annuale dei Ricercatori di Geotecnica (IARG), Matera, Italy	Influenza dell'input sismico sulla prestazione di pile da ponte fondate su pozzi
Jun. 2017	XXVI Convegno Nazionale di Geotecnica, Rome, Italy	Valutazione del coefficiente sismico equivalente per i pozzi di fondazione di pile da ponte
Nov. 2015	Dynamic Interaction of Soil and Structure, DISS_15	Comportamento sismico di un pozzo di fondazione di una pila da ponte

Part XII – Editorial

	REVIEWER FOR INTERNATIONAL JOURNALS
1.	<i>Applied Ocean Research</i>
2.	<i>Applied Sciences</i>
3.	<i>Arabian Journal of Geosciences</i>
4.	<i>ASCE Journal of Geotechnical and Geoenvironmental Engineering</i>
5.	<i>Computers and Geotechnics</i>
6.	<i>Earthquake Engineering and Structural Dynamics</i>
7.	<i>Geomechanics and Engineering, an International Journal</i>
8.	<i>Géotechnique Letters</i>
9.	<i>Geotextiles and Geomembranes</i>
10.	<i>International Journal of Geotechnical Engineering</i>
11.	<i>International Journal of Physical Modelling in Geotechnics</i>
12.	<i>Journal of Earthquake Engineering</i>
13.	<i>Journal of Rock Mechanics and Geotechnical Engineering</i>
14.	<i>Ocean Engineering</i>
15.	<i>Proceedings of ICE journal – Geotechnical Engineering</i>
16.	<i>Soil Dynamics and Earthquake Engineering</i>
17.	<i>Sustainability</i>
	REVIEWER FOR INTERNATIONAL CONFERENCES
1.	<i>5th International Symposium on Cone Penetration Testing (CPT'22), Bologna, Italy, June 8-10, 2022</i>
2.	<i>VII International Conference on Earthquake Geotechnical Engineering (7ICEGE), Rome, Italy, June 17-20, 2019</i>
3.	<i>VIII International Conference on Earthquake Geotechnical Engineering (8ICEGE), Osaka, Japan, May 7-10, 2024</i>
4.	<i>10th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE 2023) , London, UK, June 26-28, 2023</i>
5.	<i>12th International Conference on Geosynthetics (12ICG), Rome, Italy, September 17-21, 2023</i>

Part XIII – References (alphabetical order)

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15/02/2024