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Decreto Rettrice Università di Roma “La Sapienza” 1864/2023 del 12/07/2023

SALVATORE MARTINO

*Curriculum Vitae**

Part I – General Information

Full Name	Salvatore MARTINO
Citizenship	Italian
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience)
University graduation	1998	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Degree in Engineering Geology (110/110 cum laude). Dissertation on: “Lo studio della frana di Calitri (AV) attraverso ricostruzioni geologiche, geomorfologiche ed analisi geomeccaniche”
PhD	2002	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	PhD in Engineering Geology. Dissertation on: “Analisi dei fattori che influenzano l’evoluzione dei versanti attraverso l’innesco di DGPV in rocce carbonatiche dell’Appennino Centrale”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
01/04/2002	31/03/2004	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Research Grant (2 years) on the topic: “Studio dei cinematismi e delle dinamiche di versanti in frana mediante l’uso di modelli analogici e numerici definiti su casi reali”
01/01/2005	31/12/2006	Università di Roma “La Sapienza”	Research Grant (2 years) on the

* versione redatta ai fini della pubblicazione

		– Dipartimento di Scienze della Terra	topic: “Studio dei cinematismi e delle dinamiche di versanti in frana mediante l’uso di modelli analogici e numerici definiti su casi reali”
01/03/2007	01/03/2010	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra and Research Center for Geological Risks (CERI)	Researcher in Engineering geology (SSD GEO/05)
01/03/2010	30/09/2015	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra and Research Center for Geological Risks (CERI)	Confirmed Researcher in Engineering Geology (SSD GEO/05)
01/10/2015	present	MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca)	Associate Professor in Engineering Geology (SSD GEO/05)
20/07/2017	20/07/2028	MIUR (Ministero dell’Istruzione, dell’Università e della Ricerca)	Suitable for Full Professor in Engineering Geology (SSD GEO/05), after ASN Evaluation

IIIB – Other Appointments

Start	End	Institution	Position
03/04/2000	02/04/2002	ENEA (Ente Nazionale per le Nuove Tecnologie, l’Energia e l’Ambiente) – Dipartimento Ambiente	Research grant (2 years) on the topic: “Analisi di rischio per fenomeni naturali”
29/07/2004	29/08/2004	Università di Roma “La Sapienza” –Research Center for Geological Risks (CERI)	Contract for research activity on the topic: “Simulazioni numeriche, elaborazione dati di laboratorio, costruzione database informatici”
01/04/2005	07/04/2005	Presidenza del Consiglio dei Ministri – Dipartimento della Protezione Civile	Fieldwork after the landslide occurrence on 31/03/2005 at Favazzina (Reggio Calabria, Italy)
30/11/1999	present	Ordine Nazionale dei Geologi	Suitable as Geologist for professional activity
01/02/2008	01/08/2008	Institut français des sciences et technologies des transports, de l’aménagement et des réseaux, (IFSTTAR) Paris (France)	6 month stage for laboratory activities on numerical modelling
19/05/2011	19/06/2011	Universidad de Alicante – Departamento de Ciencias de la Tierra y del Medio Ambiente (Spain)	1 month stage for fieldwork activities
06/10/2009	06/02/2010	Procura della Repubblica presso il Tribunale di Messina	Specialist auxiliary of the official consultant prof. G. Scarascia Mugnozza of the “Tribunale di

			Messina” for technical inspections (art 360 c.p.p.) for the violations at the artt. 449 (in relation to artt. 434 e 427) and 589. c.p., after the landslide events occurred at Scaletta Zanclea and Giampileri Superiore (and neighbourghs), on 2 October 2009
11/07/2014	11/07/2014	Universidad de Granada – Escuela Internacional Postgrado	Member of PhD commission: candidate Dr. Jesus Garrido Manrique
08/07/2014	08/10/2014	Procura della Repubblica presso il Tribunale di Civitavecchia	Specialist auxiliary of the official consultant prof. G. Scarascia Mugnozza of the “Tribunale di Civitavecchia” for technical inspections (art 360 c.p.p.) for the slope instability occurred in Via Colle d’Argento on 11 February 2014
04/12/2014	04/12/2014	Universidad de Granada – Escuela Internacional Postgrado	Member of PhD commission: candidate Dr. Daniel Clavero Toledo
01/01/2016	present	University of Rome “Sapienza” – University Museum of Earth Science (MUST)	Member of the MUST Museum Council
01/02/2016	31/12/2016	University of Rome “Sapienza” – Scuola di Dottorato “Vito Volterra”	Member of PhD commission: candidates Dr. Mauro Patti, Dr. Mariachiara Caschetto
01/11/2015	present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Director of the Laboratory of Engineering Geology “Marcello Zalaffi”
01/01/2018	present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Director of the AcutoFieldLab, a Field Laboratory in the Prenestina Quarry of Acuto (FR)
01/01/2021	present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Member of the college of the doctoral school “Vito Volterra” of the University of Rome “Sapienza”
01/01/2019	31/12/2023	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Member of the Coordination Committee for the Excellence Project of the Department of Earth Science of University of Rome “Sapienza” (funded by the Ministry for Research)
01/05/2016	present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra	Member of the Council of the University Museum of Earth Sciences (MUST)

Part IV – Specialistic courses

Year	Topic
2000	"Advanced Numerical Applications and plasticity in Geomechanics" (26-30/06/2000, CISM school, Udine - Italy) topic: advanced theories and approaches for modelling plastic material in geomechanical and geotechnical applications (teachers: prof. A. Cividini - Politecnico di Milano; prof. J.M. Dluzewski Politechnika Warszawska; prof. G. Gioda - Politecnico di Milano; prof. D.V. Griffiths - Colorado School of mines, Golden, USA; prof. B. Loret - Institute de Mecanique, Grenoble; P.K. Woodward - Heriot-Watt University, Edimburgh, UK)
2000	"1st Groundwater modelling course" (08-11/11/2000, SINERGIE s.a.s, Vicenza - Italy) topic: theories and methods for ground water flow numerical modelling by ASWIN 6.0 and MODFLOW codes (teachers: Ph.D. M. Avanzini Studio EG, Milano; Ph.D. R. Rausch Landesamt für Geologie Rohstoffe und Bergbau, Stuttgart; Ph.D. J. Riegger Institute for Hydraulic Research University of Stuttgart)
2001	"Application of numerical modelling in rock mechanics" (03/06/2001, EUROCK 2001 Espoo, Finland) topic: numerical methods (FDM, FEM, BEM) for rock mechanics and geotechnical applications (teacher: prof. G. Beer Institute for Structural Analysis, Graz University of Technology)
2005	"Practical and quantitative approaches to landslide problems" (Research Center for Geological Risks (CERI) Università di Roma "La Sapienza", Valmontone, 13-17 Giugno 2005) topic: theoretical and practical features for slope stability analyses (teacher: prof. O. Hungr)
2016	"Corso di formazione generale per lavoratori – modulo generale 4 ore ai sensi del Dgl 81/08 e s.m.i. art.37 accordo Stato-Regioni" Università di Roma "La Sapienza", Roma, 20-22 Maggio 2016
2018	"Corso di formazione generale per RADRL – modulo generale 8 ore ai sensi dell'Art. 18, 37, co. 7, D.Lgs. 81/2008

Part V – Teaching experience

Year	Institution	Lecture/Course/PhD tutor
2000-2005	Università di Roma "La Sapienza" – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Seminaries and laboratories (120 hours) for the course "Complementi di Geologia Applicata" (SSD GEO/05, Corso di Laurea in Scienze Geologiche) – Titular: Prof. A. Prestininzi
2002-2004	Università di Roma "La Sapienza" – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Seminaries and laboratories (14 hours) for the course "Geologia Applicata" (SSD GEO/05, Corso di Laurea in Scienze Geologiche) – Titular: Prof. F. Bozzano
2002-2004	Università di Roma "La Sapienza" – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche,	Seminaries and laboratories (12 hours) for the course "Esplorazione geologica del sottosuolo" (SSD GEO/05, Corso di Laurea in

	Fisiche e Naturali)	Scienze Geologiche) – Titular: Prof. G. Scarascia Mugnozza
2005-2006	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Seminaries and laboratories (20 hours) for the course “Meccanica dei solidi e dei fluidi applicata ai terreni” (SSD GEO/05, Corso di Laurea in Scienze Geologiche) – Titular: Prof. G. Scarascia Mugnozza
2007-2009	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Modelli di Analisi di Stabilità dei Versanti” (N14106, SSD GEO/05, 4 CFU – Laurea Specialistica in Geologia Applicata all’Ingegneria ed alla Pianificazione Territoriale LS[DM 509/99 – 86S])
2008-2009	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Modelli di Analisi di Stabilità dei Versanti” (1019290, SSD GEO/05, 7 CFU – Laurea Specialistica in Geologia Applicata all’Ingegneria ed alla Pianificazione Territoriale LS[DM 509/99 – 86S])
2010-2011	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the integrated course “Complementi di Geologia Applicata e Modelli di Analisi di Stabilità dei Versanti” (1022985, SSD GEO/05, 6/9 CFU – Laurea Magistrale in Geologia Applicata all’Ingegneria, al Territorio ed ai Rischi LM[DM 270/04 – LM-74])
2012	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the integrated course “Complementi di Geologia Applicata e Modelli di Analisi di Stabilità dei Versanti” (1034912, SSD GEO/05, 6/9 CFU – Laurea Magistrale in Geologia Applicata all’Ingegneria, al Territorio ed ai Rischi LM[DM 270/04 – LM-74])
2013 - present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Stabilità dei Versanti” (1038208, SSD GEO/05, 9 CFU – Laurea Magistrale in Geologia Applicata all’Ingegneria, al Territorio ed ai Rischi LM[DM 270/04 – LM-74])
2016 - present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Geologia Applicata – II modulo: meccanica delle terre e delle rocce” (1041936, SSD GEO/05, 3 CFU – Laurea Triennale in Scienze Geologiche LM[DM 270/04 – LM-74])
2016 - 2020	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Rischi Geologici e Pianificazione Territoriale – II modulo: Risposta Sismica Locale” (1047900, SSD GEO/05, 3 CFU – Laurea Magistrale in Geologia Applicata all’Ingegneria, al Territorio ed ai Rischi LM[DM 270/04 – LM-

		74])
2020 - present	Università di Roma “La Sapienza” – Dipartimento di Scienze della Terra (Facoltà di Scienze Matematiche, Fisiche e Naturali)	Titular of the course “Risposta Sismica Locale” (10592951, SSD GEO/05, 6 CFU – Laurea Magistrale in Geologia Applicata all’Ingegneria, al Territorio ed ai Rischi LM[DM 270/04 – LM-74])
2008	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Metodi di analisi di stabilità dei versanti all’equilibrio limite globale” (16 hours, Professional Specialistic Course “Stabilità dei versanti: aspetti teorici e pratici” – 7-8/05/2008)
2010	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Metodi di analisi di stabilità dei versanti all’equilibrio limite globale” (8 hours, Professional Specialistic Course “Stabilità dei versanti: aspetti teorici e pratici” – 16/12/2010)
2011	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Monitoraggio sismometrico in aree di frana” (4 hours, Professional Specialistic Course “Corso teorico pratico di monitoraggio versanti instabili” – 02/02/2010)
2011	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Deformazioni gravitative a scala di versante: processi, effetti e monitoraggio” (8 hours, Master Course “Analisi e mitigazione del rischio idrogeologico” – 08/04/2011)
2012	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Deformazioni gravitative lente in versanti in roccia: aspetti teorici e tecniche di monitoraggio” (8 hours, Master Course “Analisi e mitigazione del rischio idrogeologico” – 20/04/2012) and field trip at the Vajont landslide, Acquabona test-site on debris flows, Tessina landslide (Belluno, Italy) on 26-28/06/2012
2013	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Verifica delle condizioni di stabilità dei versanti in terra” (8 hours, Master Course “Analisi e mitigazione del rischio idrogeologico” – 11/04/2013).
2014	Università di Roma “La Sapienza” – Research Center for Geological Risks (CERI)	Lecture on “Verifica delle condizioni di stabilità dei versanti in terra” (8 hours, Master Course “Analisi e mitigazione del rischio idrogeologico” – 8-9/05/2014) and field trip at the Vajont landslide, Acquabona on site laboratory, Tessina landslide (Belluno, Italy) on 25-27/06/2014
2012-2013	Università di Roma “La Sapienza” – Erasmus Teaching Staff Mobility	Lecture on “Gravitational deformations of rock mass slopes : insights from Italian case studies” (5 hours, TSM: E GRANADA01, ISCED CODE: 443, 12/11/2012); lecture on “Seismic Microzonation in Italy: case-studies

		and rules” (5 hours, TSM: E GRANADA01, ISCED CODE: 443, 11-12/06/2013)
2004	Università degli Studi di Urbino “Carlo Bo” (Italy)	Seminary on “Frane sismodotte da recenti terremoti in Italia: i casi di Cerda (Pa) e Salcito (CB) (2 hours, 17/12/2004)
2010	Universidad de Alicante (Spain)	Seminary on “Effects of interactions between seismic waves and slopes on seismically-induced landslides: insights from Italian case-histories” (2 hours, 03/12/2010)
2014	Universidad de Alicante (Spain)	Seminary on “El desastre de Vajont: en caso de estudio, una memoria historica que non se puede perder” (1 hours, 27/01/2014)
2016	Università di Milano Bicocca	Seminary on “Landslide triggered by teh August-October seismic sequences in Central Italy: surveying, inventorying and first considerations on spatial distribution” (1 hours, 13/12/2016)
2016	X Convegno Nazionale dei Giovani Ricercatori in Geologia Applicata (AIGA – 18-19 Febbraio, Bologna)	Invited keynote lecture on “Landslides and earthquakes: from seismically-induced effects to induced seismicity” (30 minutes)
2020	4a Giornata Geologia e Storia (ISPRA – 4 Marzo, Roma)	Invited lecture: “Effetti sismoindotti al suolo in Italia e catalogo CEDIT: dall’inventario all’analisi di scenario”
2020	Eredità ed esperienze a 40 anni dal terremoto Irpino-Lucano (AIGA – 19 Novembre, Webinar)	Invited keynote lecture on: “Il terremoto dell’Irpinia-Basilicata: lezioni apprese dagli effetti”
		sismoindotti in chiave di mitigazione del rischio
2022	I caffè di Geologicamente (SGI – 27 Ottobre, Webinar)	Invited keynote lecture on: “Terremoti ed effetti sismoindotti: dai miti alla storia alla scienza”
2014	Università di Roma “Sapienza” – Research Center for the Geological Risks (CERI)	Scientific and Organizing Committee for the field trip at the Vajont dam and landslide during the International Conference on “Vajont 1963-2013: thoughts and analyses after 50 years since the catastrophic event” (10/11/2013)
2002 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Co-tutor of 41 Master theses
2010 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Tutor of 84 Master theses
2013 - present	Università di Roma “Sapienza” – Research Center for the Geological Risks (CERI)	Tutor of 3 Advanced Master theses
2010 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Co-tutor of 3 discussed PhD Thesis in Italy: Salomon Hailaemikael (XXIII cycle); Alfredo Montagna (XIII cycle); Annachiara Giacomi (XXV cycle).

2010 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Co-tutor of 2 discussed PhD Thesis abroad: Yawar Hussain (University of Brasilia); Gisela Domeji (Université Paris Est); Co-tutor of 1 ongoing PhD Thesis abroad: Mara Mita (Université Gustave Eiffel).
2013 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Tutor of 7 discussed PhD Thesis: “Vibrational interaction between urban agglomerates and geological system with heterogeneous composition” (student: Chiara Varone, “Vito Volterra PhD School, XXIX cycle); “Applicazione della nanosiamomeria allo studio di instabilità gravitative di ammassi rocciosi fratturati” (student: Roberto Iannucci, “Vito Volterra PhD School, XXX cycle); “Ruolo del comportamento termomeccanico di ammassi rocciosi fratturati nelle dinamiche gravitative a scala di versante” (student: Gian Marco Marmoni, “Vito Volterra PhD School, XXX cycle); “Monitoraggio multiparametrico integrato mediante <i>cloud system</i> per la gestione del rischio da frana” (student: Matteo Fiorucci, “Vito Volterra PhD School, XXX cycle); “Effetti reologici connessi a processi di neofratturazione in ammassi roccioso” (student: Danilo D’Angiò, “Vito Volterra PhD School, XXXII cycle); “Landslide damming: implications for natural hazards and risks” (student: Javad Rhoui, “Vito Volterra PhD School, XXXII cycle); “Nonlinear strain effects induced by thermal forcing on jointed rock masses” (student: Guglielmo Grechi, “Vito Volterra PhD School, XXXIV cycle). Tutor of 2 ongoing PhD Thesis: “Influence of climate on landslides: an analysis based on coupled stress-strain and landscape evolution modelling” (student: Federico Feliziani, “Vito Volterra PhD School, XXXVIII cycle); “Scenari quantitativi di geo-multihazard in funzione del tempo in relazione ad infrastrutture strategiche” (student: Matteo Ferrarotti, “Vito Volterra PhD School, XXXVIII cycle – Industrial PhD).
2013 - present	Università di Roma “Sapienza” – Dipartimento Scienze della Terra	Tutor of 9 Internship stages from the Polytechnique del la Sorbonne (Paris): Vincent Baradel, Carole Hakes, Laureene Biremba, Supapradit Rordjaroenpan, Manon Merian, Anne Charlotte La Gallais, Hugo Sampieri, Jennyfer Rosa Fernandes, Jeanne Pierre Hu
2019-	Università di Roma “Sapienza” –	Tutor of 2 Internship stages from the Geology

present	Dipartimento Scienze della Terra	Department of the National Environment Agency (Tbilisi - Georgia): Dr. Davit Teodoratze, Dr. Ramaz Koberidze.
2022	Università di Roma “Sapienza” – Dipartimento Scienze della Terra	Tutor of 1 PhD stage from the University of Leeds Engineering School of Civil Engineering: Dr. Hang Wu
2022	Università di Roma “Sapienza” – Dipartimento Scienze della Terra	Tutor of 1 PhD stage from the University of Leeds Engineering School of Civil Engineering, Chongqing University, Chongqing, P.R.China: Dr. Yanan Qian
2015 - present	Università di Roma “Sapienza” – Dipartimento di Scienze della Terra	Tutor of the project “Alternanza Scuola Lavoro (ASL-PCTO)” sul progetto formativo: Meccanica dei terreni e delle rocce: dai campioni del terreno alle prove di laboratorio”
2022	Geocorsi – e_learning platform for National Council of Geologists and National Council of Engineers (https://www.geocorsi.it/)	Teacher of the courses (in Italian language): Risposta Sismica Locale 1D (5h); Risposta Sismica Locale 2D (6h); Analisi di stabilità di versanti naturali: modellazione geologico-tecnica (5h); Analisi di stabilità di versanti naturali: modelli analitici con approcci ELG (5h)

Part VI - Society memberships, Editorial board, Awards and Honors

Year	Title
1999-2007	Ordine dei Geologi del Lazio (geologist - n.1315)
1992 - present	Società Geologica Italiana - SGI (senior member)
2001 - present	Associazione Italiana per la Geologia Applicata ed Ambientale – AIGA (senior member)
2004	Winner of the “Young Author Award for 2004” by the Quarterly Journal of Engineering Geology and Hydrogeology (Geological Society of London)
2013-present	Member of the Editorial Board of the “Italian Journal of Engineering Geology and Environment (IJEGE)” - ISSN 1835-6635, edited by “Sapienza Università Editrice” (https://rosa.uniroma1.it/rosa02/engineering_geology_environment/about/editorialTeam)
2016	AIGA Haward for the best Italian researcher in Engineering Geology for the year 2016
2021-present	Associate Editor of Terra Nova (© John Wiley & Sons Ltd) - ISSN:1365-3121
2023 - present	Co-Editor of the Elsevier Book “Geohazards and Disasters: modelling scenarios as a challenge for future” (contract signed on 08/03/2023 ID: 29099010-7CC2-4C6E-B440-2229089CC8A2)

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

Year	Title	Role
1999-2001	Line 2 of GNDCI (principal investigator: prof. G. Valentini)	Investigator
2000	MURST Project for Young Researchers (Ministeriale 1707, 22/07/1998) title: "Analisi delle condizioni di stabilità per fenomeni di deformazione gravitativa profonda di versanti in roccia: aspetti evolutivi e modellazione analogica e numerica"	Principal investigator
2002	Line 2 of GNDCI 2002 (principal investigator: prof. A. Prestininzi)	Investigator
2003-2004	COFIN Project (D.M. n.21 20/02/2003 - year 2003 - prot. 2003049828) title: "Frane catastrofiche: studio dei cinematismi e delle dinamiche dei versanti mediante l'uso di modelli analogici e numerici per la valutazione del rischio" (principal investigator: prof. A. Prestininzi)	Investigator
2005-2006	(D.M. 237 23/02/2005 - year 2005 - prot. 2005044895) title "Pericolosità sismica indotta: analisi, modellazione e scenari previsionali di frane innescate da terremoti" (principal investigator: prof. G. Scarascia Mugnozza)	Investigator
2006	POR Calabria 2000-2006 Project. "Movimenti di massa e sismotettonica" - LOTTO n 3, Misura 1.4, Azione 1.4.c, del title: "Studio e sperimentazione di metodologie e tecniche per la mitigazione del rischio idrogeologico" (principal investigator: prof. G. Scarascia Mugnozza)	Investigator
2006-2007	PRIN Project (D.M. 582 24/03/2006 - year 2006 - prot. 2006042319) title: "Integration of onshore and offshore geological and geophysical innovative techniques for coastal landslides studies" (principal investigator: F.L. Chiocci)	Investigator
2008	Research Project of the Ateneo Federato della Scienza e della Tecnologia AST (Anno: 2008 - prot. C26F08T34A) "Instabilità gravitative del fianco orientale dell'Etna: modellazione numerica degli effetti indotti da forzanti statiche interne e forzanti dinamiche esterne" (principal investigator: F. Bozzano)	Investigator
2009	Research Project of the Ateneo Federato della Scienza e della Tecnologia AST (Anno: 2009) dal titolo: "Ricostruzione delle variazioni dei ghiacciai alpini e valutazione di potenziali effetti tenso-deformativi indotti dalla deglaciazione" (principal investigator: PhD Maria Cristina Salvatore)	Investigator
2009-2010	PRIN Project (D.M. 51 del 19/03/2010 - Anno 2009 - prot. 2009PB8HER) title: "Analisi, monitoraggio e controllo di dissesti geologici interagenti con attività antropiche" (principal investigator: prof. F Bozzano)	Investigator

2010-2013	SEISMIC ENGINEERING RESEARCH INFRASTRUCTURES FOR EUROPEAN SYNERGIES (SERIES) title: "Experimental and Numerical Investigations of Nonlinearity in soils using Advanced Laboratory-Scaled models (ENINALS)", TA Use Agreement signed on 3 March 2010 - Grant Agreement No. 227887 of the "European Commission, 7th Framework Programme" (principal investigator: prof. G. Scarascia Mugnozza)	Investigator
2012	Project S_2-2012 Convention INGV-DPC 2012-2013 – UR4 title "Validazione della pericolosità sismica mediante dati osservati Constraining OBServations into Seismic hazard (COBAS)" (principal investigator: Laura Peruzza; UR coordinator prof. R. Romeo)	Investigator
2012	University "Sapienza" Research Project (Anno: 2012 - prot. C26A12MT4F) title: "Landslide triggering in areas affected by intense morphodynamics due to volcanism, seismicity and erosional processes"	Principal investigator
2013	University "Sapienza" Research Project (Anno: 2012 - prot. C26A13MFXP) title: "Quantitative and integrated approach to the morpho-evolutionary analysis of tectonically active areas in central Apennines (Italy): morpho-chronological constraints and implications for natural hazards" (principal investigator: PhD M. Della Seta)	Investigator
2012-2015	MARSite (MARmara Supersite: New Directions in Seismic Hazard Assessment through Focused Earth Observation in the Marmara Supersite), Grant Agreement No: 308417 - THEME [ENV.2012.6.4-2] [Long-term monitoring experiment in geologically active regions of Europe prone to natural hazards: the Supersite concept]. In the frame of the Seventh Framework Programme and for the dissemination of research results (2007-2013). (Coordinator: KOERI (Bogazici University, Kandilli Observatory and Earthquake Research Institute; principal investigator prof. N. Oguz Ozel)	Principal investigator for Third Party "Sapienza"
2013-2015	Monitorización Sísmica de Deslizamientos: Criterios de Reactivación y Alerta Temprana (GGI3002IDIN) funded by Junta de Andalusia (principal investigator: prof. Carlos Lopez Casado)	Investigator
2015	University "Sapienza" Research Project (Anno: 2016 - prot. C26A15FH3L) title "Influence of geothermal systems and related thermal regime variations on the onset and development of large slope instabilities in the Island of Ischia" (principal investigator: PhD Carlo Esposito)	Investigator
2016	University "Sapienza" Research Project (Anno: 2016) title "Cliff slope failures in the coastal morpho-dynamics: from back- to forward-analysis of processes through	Principal Investigator

	monitoring and multi-modelling approaches” (principal investigator: Prof. Salvatore Martino)	
2016	Galileo Project Italy-France (Anno: 2016) title “Landslide triggered tsunami hazard in the Mediterranean: improving risk mitigation strategies by understanding natural processes” (principal investigator: Prof. Salvatore Martino)	Principal Investigator
2019	Galileo Project Italy-France (Anno: 2019) title “Measurement of damage effects on rock masses to prevent landslide triggering by vehicular traffic and weather conditions” (principal investigator: Prof. Salvatore Martino)	Principal Investigator
2017	PRIN Project (D.M. 3728 del 27/12/2017 - Anno 2017 - Prot. 2017HPJLPW) title: "URGENT - Urban Geology and Geohazards: Engineering geology for safer, resilient and smart ciTies" (principal investigator: prof. G.B. Crosta)	Investigator
2017	University "Sapienza" Research Project (Anno: 2017 - prot. RM11715C5960EF3F) title “Rock Mass Creeping, a multidisciplinary approach to characterize the long-term behaviour of faults and landslides” (principal investigator: Prof. Fabio Trippetta)	Investigator
2018	University "Sapienza" Research Project (Anno: 2018 – prot. RM118164367B3FF7) title “Analisi dei rischi geologici interferenti con le grandi dighe attraverso l'uso integrato di dati telerilevati e realtà virtuale” (principal investigator: Prof. Paolo Mazzanti)	Investigator
2018	University "Sapienza" Research Project (Anno: 2018 – prot. GA118164933D8EA2) title “Wide-Range Laser Scanning Station for 3D Shape Reconstruction and Dynamic Measurements” (principal investigator: Prof. Walter Lacarbonara)	Investigator
2018	Research Project of Centro di Eccellenza DTC Lazio (Anno: 2018 – prot. GA118164933D8EA2) title “Tecnologie per il miglioramento della Sicurezza e la Ricostruzione dei centri Storici in area sisMIca (SISMI)” (principal investigator: Prof.ssa Lucina Caravaggi)	Investigator for “Sapienza”
2019-2022	EU Research Project “SStructural stABiLity risk assEssment– STABLE” (H2020-MSCA-RISE-2018 Proposal number 823966) (principal investigator: Ethnicon Metsovion Polytechnion)	Investigator for “Sapienza”

2019	University "Sapienza" Research Project (Anno: 2019 - prot. RG11916B88FA477F) title “Integrated analysis and hazard-oriented modeling of large scale slope instabilities featured by Mass Rock Creep” (principal investigator: Prof. Carlo Esposito)	Investigator
2019	University "Sapienza" Research Project (Anno: 2019 - prot. MA11916B88D4B799) title “Misure sismiche di nuova generazione per la caratterizzazione dinamica dei terreni” (principal investigator: Prof. Michele Cercato)	Investigator
2020	University "Sapienza" Research Project (Anno: 2020 - prot. RM120172A2582F52) title “Analisi di distribuzione di effetti di instabilità sismoindotti basate su un inventario a scala nazionale per la definizione probabilistica di multi-hazard” (principal investigator: Prof. Salvatore Martino)	Principal Investigator
2020	Research Project of Centro di Eccellenza DTC Lazio (Anno: 2020) title “Sistema per la Simulazione dei Danni da Terremoto (SIS-DAT)” (principal investigator: Prof.ssa Francesca Bozzano)	Investigator for “Sapienza”
2021	University "Sapienza" Research Project (Anno: 2021 - prot. RM12117A8A245367) title “Tecniche avanzate di sismica attiva e passiva per la caratterizzazione e il monitoraggio di frane in terra” (principal investigator: Prof. Michele Cercato)	Investigator
2022	University "Sapienza" Research Project (Anno: 2022 - prot. SA122181619BC153) title “The Farfa Valley Project. Caves, people, and past environments” (principal investigator: Prof.ssa Cecilia Conati Barbaro)	Investigator
2023	University "Sapienza" Research Project (Anno: 2023 - prot. RG12218162F0E551) title FIRE - wildFire-related-landslide scenarios for territorial planning and Risk management (principal investigator: Salvatore Martino)	Principal Investigator
2022-2025	EU Research Project “Toolbox for assessing and mitigating Climate Change risks and natural hazards threatening cultural heritage – TRIQUETRA” (HORIZON-RIA-CL2-2022-HERITAGE-01-08 Proposal number 101094818) (principal investigator: Ethnicon Metsovion Polytechnion)	Principal Investigator for “Sapienza”
2022-2026	PNRR-CN1-Spoke5-Line1 University "Sapienza" Research Project (DR n. 3473/2022 prot. n 109071 del 01/12/2022) title “Ricostruzione di scenari multi-hazard	Principal Investigator

	dai modelli di sorgente sismica alla simulazione di instabilità sismoindotte” (principal investigator: Prof. Salvatore Martino)	
2022-2026	PNRR-PE3-Spoke2-Line1 University "Sapienza" Research Project (D.R. n. 155/2023 Prot. N. 0007671 del 26/01/2023) title “Ground Instabilities” (principal investigator: Prof. Salvatore Martino)	Principal Investigator
2022-2026	PNRR-PE3-Spoke2 RETURN Project (D.R. MUR n. 1552/2022 with Annexes and Executive Work Plan) title “Ground Instabilities” (Spoke Leader: Prof. Salvatore Martino)	National Spoke Leader
2023-2025	PRIN2022 Project (Decreto Direttoriale 746 del 31/05/2023) title “THERmo- and hydro-mechanical monitoring and modeling of jointed ROCKs: a national Site LABORatory network (THEROCKLAB)” (PI for Sapienza: Prof. Salvatore Martino)	Principal Investigator for “Sapienza”

Part VIII – Research Activities

Keywords

Landslide
Slope stability
Earthquake
Rheological behaviour
Numerical modelling

Brief Description

Study of landslide mechanisms by field activity, and engineering-geological modelling; slope stability analysis by in site investigation and numerical modelling (through stress-strain FEM and FDM codes), with particular attention to the earthquake trigger. Gravity-induced effects in rock masses: implications on rheological behaviour, application of equivalent continuum approaches for stress-strain numerical use of mechanical properties, micro- and nano-seismic monitoring of cracks and collapses for risk mitigation. Analysis of the local seismic response by both instrumental records and numerical modeling, particularly focused on the interactions between earthquake-induced landslides and seismic waves. Earthquake-induced effect inventory: collection of data and documents, database construction, analysis of ground effects. Design and management of experimental fields aimed at the study and monitoring of preparatory and triggering factors for landslides due to collapse from rock walls.

Part IX –National and International Agreement

Year

Brief Description

Role

2008-2012	Memorandum of Understanding between the Laboratoire Central des Ponts et Chaussées (LCPC), Paris (France) and the Centro di Ricerca Previsione, Prevenzione e Controllo dei Rischi Geologici (CERI), dell'Università di Roma "Sapienza" (scientific responsables: prof. A. Prestininzi and J. Roudier), topic: "Processing and analysis of seismic ground motions; Processing and analysis of ground vibrations; Numerical methods and models; Analysis of possible effects of ground vibrations on existing buildings or infrastructures (such as road, bridges, tunnels, etc.); Analysis of possible relation between seismic records and local geological conditions"	Reference person
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2014-2018	Memorandum of Understanding between the Institut français des sciences et technologies des transports, de l'aménagement et des réseaux, (IFSTTAR) Paris (France) and the Centro di Ricerca Previsione, Prevenzione e Controllo dei Rischi Geologici (CERI), dell'Università di Roma "Sapienza" (scientific responsables: prof. A. Prestininzi and J. F. Semblat), topic: "Processing and analysis of seismic ground motions; Processing and analysis of ground vibrations; Numerical methods and models; Analysis of possible effects of ground vibrations on existing buildings or infrastructures (such as road, bridges, tunnels, etc.); Analysis of possible relation between seismic records and local geological conditions"	Reference person
2006-2007	Contractor Reggio Calabria-Scilla S.p.A.: "Autostrada Salerno-Reggio Calabria; lavori di ammodernamento ed adeguamento al tipo 1a delle Norme CNR/80 dal km 423+300 (Svincolo di Scilla incluso) al km 442+920" (responsible for CERI- La Sapienza: prof. A. Prestininzi)	Partecipant
2007-2010	Contractor "Salerno-Reggio Calabria Società Consortile per Azioni (SaRc S.c.p.a.)": "Studio e analisi di stabilità del versante posto in sinistra idrografica del Torrente Sfalassà in relazione ai lavori di ammodernamento dell'Autostrada Salerno-Reggio Calabria e in particolare alla realizzazione della nuova Galleria ed alla Spalla Sinistra del nuovo Viadotto".(responsible for CERI – La Sapienza: prof. A. Prestininzi)	Partecipant
2011-2012	Contractor "Salerno-Reggio Calabria Società Consortile per Azioni (SaRc S.c.p.a.)": "Studio e analisi di stabilità del versante posto in sinistra idrografica del Torrente Sfalassà in relazione ai lavori di ammodernamento dell'Autostrada Salerno-Reggio Calabria e in particolare alla realizzazione della nuova Galleria ed alla Spalla Sinistra del nuovo Viadotto" (responsible for CERI – La Sapienza: prof.ssa Francesca Bozzano)	Partecipant
2006	Manager Regione Lazio (Anno: 2006 - Delibera Regionale B4079 and B4080, 27/10/2006): "Valutazione della risposta sismica locale e individuazione di sottozone sismiche in aree comunali di interesse nel territorio della Regione Lazio" (responsible for CERI – La Sapienza prof. G. Scarascia Mugnozza)	Partecipant
2010	Contractor ROCKSOIL: "Ricostruzione geologico-tecnica e geomorfologica del versante calabrese nell'ambito della realizzazione del Ponte sullo Stretto di Messina ed analisi di dettaglio di alcuni settori del versante calabrese e siciliano con dissesti gravitativi con possibile interferenza con le opere a terra" (responsible for Dipartimento di Scienze della Terra – La Sapienza prof.ssa Francesca Bozzano)	Partecipant
2008-2014	Manager ACEA-ATO2 S.p.A.: "Monitoraggio geologico geotecnico delle gallerie dell'impianto di captazione delle Sorgenti del Peschiera, definizione e comprensione delle dinamiche che generano le lesioni nelle gallerie ed individuazione degli interventi strutturali che in futuro dovranno essere progettati per il risanamento della galleria Collettrice" (responsible for CERI – La Sapienza: prof. A.Prestininzi)	Partecipant

2014	Manager RFI (Rete Ferroviaria Italiana): “Linee guida per la definizione della graduatoria di priorità dei tratti dell’infrastruttura ferroviaria interessati da fenomeni di dissesto idrogeologico, in base al valore di rischio ferroviario” (responsible for CERI – La Sapienza: prof. A. Prestininzi)	Participant
2015-2018	Manager ACEA-ATO2 S.p.A.: "Monitoraggio geologico-geotecnico delle gallerie dell'impianto di captazione delle Sorgenti del Peschiera, definizione e comprensione delle dinamiche che generano le lesioni nelle gallerie ed individuazione degli interventi strutturali che in futuro dovranno essere progettati per il risanamento della galleria Collettrice" (responsible for CERI – La Sapienza: prof. A. Prestininzi)	Participant
2017	Manager RFI (Rete Ferroviaria Italiana): “Progettazione esecutiva, realizzazione e collaudo di 4 impianti prototipali di monitoraggio/allerta per la difesa della sede ferroviaria da fenomeni gravitativi veloci (cadute massi, colate rapide incanalate odiffuse, sprofondamenti naturali – sinkhole)” (responsible for CERI – La Sapienza: prof. S. Martino)	Responsible
2016	Manager CNR-IGAG (Centro di Microzonazione Sismica e sue Applicazioni): “Preliminary studies of Local Seismic Response conducted in the Municipality of Accumoli (RI) following the earthquakes on 24 August 2016 by Ordinance 394 of 19/09/2016”	Responsible
2017	Manager CNR-IGAG (Centro di Microzonazione Sismica e sue Applicazioni): “Studies of Local Seismic Response conducted in the Municipality of Forio (Ischia) consequent to the Resolution of the Council of Ministers of 29 August 2017”	Responsible
2017	Manager CNR-IGAG (Centro di Microzonazione Sismica e sue Applicazioni): “Studies of Level 3 Seismic Microzonation conducted in 13 municipalities of the Lazio Region in the earthquake areas following the earthquakes of 2016-2017 by Ordinance 24 of 12/05/2017”	Responsible
2020-2024	Manager ACEA-ATO2 S.p.A.: “Attività di studio della pericolosità geologica con implementazione dei sistemi di monitoraggio e relativa reportistica a fini gestionali presso l’impianto delle Sorgenti del Peschiera e quello delle Sorgenti delle Capore” (responsible for CERI – La Sapienza: prof. S. Martino)	Responsible

Part X – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	131	Scopus	2002	2023
Papers [national]	11	Scopus	2002	2023
Books [scientific]	11	Scopus	2002	2023
Proceedings	37	Scopus	2002	2023

Total Impact factor	277	WoS
Average Impact Factor	2.9	WoS
Number of items	192	Scopus
Total Citations	2470	Scopus
Average Citations per Product	13	Scopus
Hirsch (H) index	29	Scopus
Normalized H index*	1.47	Scopus
Corrected H index**	1.4	Scopus

*H index divided by the academic seniority.

** H index divided by the PhD seniority

Part XI – Total Publications

XI-A Publications on Journals

- GIAN MARCO MARMONI, **SALVATORE MARTINO**, MATTEO CENSI, M. MENICHETTI, DANIELA PIACENTINI, GABRIELE SCARASCIA MUGNOZZA, DAVIDE TORRE, FRANCESCO TROIANI (2023). Transition from rock mass creep to progressive failure for rockslide initiation at Mt. Conero (Italy). GEOMORPHOLOGY, <https://doi.org/10.1016/j.geomorph.2023.108750>
- GUGLIELMO GRECHI, DANILO D’ANGIÒ, **SALVATORE MARTINO** (2023). Analysis of thermally induced strain effects on a jointed rock mass through microseismic monitoring at the Acuto field laboratory (Italy). APPLIED SCIENCES, vol. 13, p. 1-25, ISSN: 2076-3417, doi: 10.3390/app13042489
- MARCO EMANUELE DISCENZA, CARLO ESPOSITO, EMILIANO DI LUZIO, MICHELE DELCHIARO, DIEGO DI MARTIRE, MARIACARMELA MINNILLO, JAVAD ROUHI, **SALVATORE MARTINO**, MARTA DELLA SETA, FRANCESCO TROIANI, DOMENICO CALCATERRA, GABRIELE SCARASCIA MUGNOZZA (2023). Deep-Seated Gravitational Slope Deformations in Molise region (Italy). Novel inventory and main geomorphological features. JOURNAL OF MAPS, p. 1-14, ISSN: 1744-5647, doi: 10.1080/17445647.2022.2163198
- GABRIELE AMATO, MATTEO FIORUCCI, **SALVATORE MARTINO**, LUIGI LOMBARDO, LORENZO PALOMBI (2023). Earthquake-triggered landslide susceptibility in Italy by means of Artificial Neural Network. BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol. 82, ISSN: 1435-9529, doi: 10.1007/s10064-023-03163-x
- BENEDETTA ANTONIELLI, ROBERTO IANNUCCI, PAOLO CIAMPI, **SALVATORE MARTINO**, DOMENICO MARCHETTI, FEDERICO GIUDICI, GABRIELE SCARASCIA MUGNOZZA, FRANCESCA BOZZANO (2023). Engineering-geological modeling for supporting local seismic response studies: insights from the 3D model of the subsoil of Rieti (Italy). BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT, vol. 82, ISSN: 1435-9529, doi: 10.1007/s10064-023-03259-4
- EMANUELE COLICA, LUCIANO GALONE, SEBASTIANO D’AMICO, ADAM GAUCI, ROBERTO IANNUCCI, **SALVATORE MARTINO**, DAVIDE PISTILLO, PETER IREGBEYEN, GIANLUCA VALENTINO (2023). Evaluating characteristics of an active coastal spreading area

combining geophysical data with satellite, aerial, and unmanned aerial vehicles images. REMOTE SENSING, vol. 15, ISSN: 2072-4292, doi: 10.3390/rs15051465

- **SALVATORE MARTINO** (2023). Grandi frane in terra. Paesi “in movimento”. MEMORIE DESCRITTIVE DELLA CARTA GEOLOGICA D'ITALIA, vol. 110, p. 383-392, ISSN: 0536-0242
- MARCO EMANUELE DISCENZA, EMILIANO DI LUZIO, **SALVATORE MARTINO**, MARIACARMELA MINNILLO, CARLO ESPOSITO (2023). Role of inherited tectonic structures on gravity-induced slope deformations. Inference from numerical modeling on the Luco dei Marsi DSGSD (Central Apennines). APPLIED SCIENCES, vol. 13, ISSN: 2076-3417, doi: 10.3390/app13074417
- DELCHIARO, MICHELE, DELLA SETA, MARTA, **MARTINO, SALVATORE**, NOZAEEM, REZA, MOUMENI, MOHAMMAD (2023). Tectonic deformation and landscape evolution inducing mass rock creep driven landslides. The Loumar case-study (Zagros Fold and Thrust Belt, Iran). TECTONOPHYSICS, vol. 846, ISSN: 0040-1951, doi: 10.1016/j.tecto.2022.229655
- ROBERTO IANNUCCI, BENEDETTA ANTONIELLI, MARCELLO CORADINI, VASSILIOS KARASTATHIS, CHARILAOS MANIATAKIS, **SALVATORE MARTINO**, LORENZO MESSINA, EVANGELOS MOUZAKIOTIS, ANTONELLA PACIELLO, STEFANO RIVELLINO, CHARALAMPOS SAROGLU, FRANCESCA BOZZANO (2022). Analysis of the local seismic response in the Strovolos Municipality (Nicosia District, Cyprus). ITALIAN JOURNAL OF ENGINEERING GEOLOGY AND ENVIRONMENT, p. 43-53, ISSN: 2035-5688, doi: 10.4408/IJEGE.2022-01.O-04
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- IANNUCCI R., LENTI L., **MARTINO S.**, PERAZZA R., VARONE C., BOZZANO F. (2022). Identifying the influence of a large alluvial valley on train-induced vibration propagation in Rome by an integrated approach. ENGINEERING GEOLOGY, vol. 297, ISSN: 0013-7952, doi: 10.1016/j.enggeo.2021.106499
- **MARTINO S.**, FIORUCCI M., MARMONI G. M., CASABURI L., ANTONIELLI B., MAZZANTI P. (2022). Increase in landslide activity after a low-magnitude earthquake as inferred from DInSAR interferometry. SCIENTIFIC REPORTS, vol. 12, p. 1-19, ISSN: 2045-2322, doi: 10.1038/s41598-022-06508-w
- ROUHI, JAVAD, DELCHIARO, MICHELE, DELLA SETA, MARTA, **MARTINO, SALVATORE** (2022). New insights on the emplacement kinematics of the Seymareh Landslide (Zagros Mts., Iran) through a novel spatial statistical approach. FRONTIERS IN EARTH SCIENCE, vol. 10, p. 1-19, ISSN: 2296-6463, doi: 10.3389/feart.2022.869391
- YAWAR HUSSAIN, ROMY SCHLÖGEL, AGNESE INNOCENTI, OMAR HAMZA, ROBERTO IANNUCCI, **SALVATORE MARTINO**, HANS-BALDER HAVENITH (2022). Review on the geophysical and UAV-based methods applied to landslides. REMOTE SENSING, vol. 14, p. 1-33, ISSN: 2072-4292, doi: 10.3390/rs14184564
- **MARTINO, SALVATORE**, MARMONI, GIAN MARCO, FIORUCCI, MATTEO, CECI, ANTONIO FRANCESCO, DISCENZA, MARCO EMANUELE, ROUHI, JAVAD, TEDORADZE, DAVIT

- (2022). Role of antecedent rainfall in the earthquake-triggered shallow landslides involving unsaturated slope covers. *APPLIED SCIENCES*, vol. 12, ISSN: 2076-3417, doi: 10.3390/app12062917
- FIORUCCI, M., **MARTINO, S.**, DELLA SETA, M., LENTI, L., MANCINI, A. (2022). Seismic response of landslides to natural and man-induced ground vibrations. Evidence from the Petacciato coastal slope (central Italy). *ENGINEERING GEOLOGY*, vol. 309, ISSN: 0013-7952, doi: 10.1016/j.enggeo.2022.106826
 - **SALVATORE MARTINO** (2022). Terremoti ed effetti sismoindotti. Dai miti, alla storia, alla scienza. *GEOLOGICAMENTE*, p. 28-36, ISSN: 2705-0149
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