

DANIELA BOLDINI

Curriculum Vitae

1. General Information

Full name: Daniela Boldini

Date of Birth:

Place of Birth: Rome (Italy)

Citizenship: Italian

Permanent address:

Mobile phone number:

E-mail: daniela.boldini@uniroma1.it

Spoken Languages: Italian, English

2. Current Academic Position

Associate Professor in “Ingegneria e Sicurezza degli Scavi” (ING-IND/28)

Sapienza University of Rome

Department of Chemical Engineering Materials Environment

3. Education

- Ph.D. in Geotechnical Engineering (Dottorato di Ricerca in Ingegneria Geotecnica), Sapienza University of Rome, supervisor Prof. Renato Ribacchi, 21 March 2003
- Visiting Pre-doctoral Fellow, Institute of Strength of Materials, Vienna University of Technology (Austria), supervisor Prof. Herbert Mang, from November 2000 to December 2001 (13 months)
- 5-years University Degree in Environmental Engineering (Laurea in Ingegneria per l’Ambiente e il Territorio), Sapienza University of Rome, 110/110 cum laude (with honors), supervisor Prof. Renato Ribacchi, 22 July 1998
- High School Diploma at the Liceo Scientifico “Plinio Seniore”, Rome, grade 60/60, July 1992

4. Academic Cursus

- Qualification as Full Professor of “Geotecnica” (Settore Concorsuale 08/B1) (12 April 2017)
- Qualification as Full Professor of “Ingegneria Sanitaria-Ambientale, Ingegneria degli Idrocarburi e Fluidi del Sottosuolo, della Sicurezza e Protezione in Ambito Civile” (Settore Concorsuale 08/A2) (4 April 2017)
- Associate Professor in “Ingegneria e Sicurezza degli Scavi” (ING-IND/28), Sapienza University of Rome, from 4 November 2019
- Qualification as Associate Professor of “Geotecnica” (Settore Concorsuale 08/B1) (31 October 2018)
- Associate Professor in “Ingegneria e Sicurezza degli Scavi” (ING-IND/28), University of Bologna, from 15 September 2015 to 3 November 2019
- Winner of the national competition for the qualification as Associate Professor of “Geotecnica” (Settore Concorsuale 08/B1) (7 February 2014)
- Qualification as Associate Professor of “Ingegneria Sanitaria-Ambientale, Ingegneria degli Idrocarburi e Fluidi del Sottosuolo, della Sicurezza e Protezione in Ambito Civile” (Settore Concorsuale 08/A2) (12 December 2013)
- Maternity leave from 4 April to 21 September 2012 (date of birth of the second child 29 April 2012)
- Maternity leave from 2 August 2010 to 21 February 2011 (date of birth of the first child 8 September 2010)
- Visiting Researcher, Department of Civil and Environmental Engineering, Stanford University, supervisor Prof. Ronaldo Borja, from April to July 2006 (4 months)
- Lecturer in “Ingegneria e Sicurezza degli Scavi” (ING-IND/28), University of Bologna, from 1 October 2005 to 14 September 2014
- Post-doc Research Fellow, Department of Structural and Geotechnical Engineering, Sapienza University of Rome, contract on “Problemi di stabilità dei pendii”, supervisor Prof. Renato Ribacchi, from 1 May 2005 to 31 July 2005
- Visiting Researcher, Disaster Prevention Research Institute, Kyoto University (Japan), supervisor Prof. Kyoji Sassa, from May to June 2005 (2 months)
- Post-doc Research Fellow, Department of Structural and Geotechnical Engineering, Sapienza University of Rome, contract on “Modellazione dell’interazione idromeccanica in problemi di

stabilità dei pendii e di fondazioni di dighe”, supervisor Prof. Renato Ribacchi, from 1 December 2004 to 30 April 2005

- Research Grant (Assegno di Ricerca), Institute for Geo-Engineering and Environmental Geology, National Research Council, contract on “Progetto biennale per la prosecuzione delle attività legate all'analisi delle condizioni di stabilità della Sciara del Fuoco finanziato dall'INGV-GNV”, supervisor Ing. Paolo Tommasi, from 1 April 2004 to 31 May 2005
- Post-doc Research Fellow, Department of Structural and Geotechnical Engineering, Sapienza University of Rome, contract on “Fenomeni di instabilità nelle pendici del Colle di Orvieto”, supervisor Prof. Renato Ribacchi, from 1 January 2004 to 30 April 2004
- Post-doc Research Fellow, Department of Structural and Geotechnical Engineering, Sapienza University of Rome, contract on “Scavo di gallerie in ammassi rocciosi scadenti mediante la tecnica del fronte rinforzato”, supervisor Prof. Renato Ribacchi, from 26 September 2002 to 31 December 2003

5. Teaching and Mentoring

5.1 Academic Teaching Assignments

2023-2024 “Tunnelling and Excavation Engineering” (ING-IND/28, 90 hours, 9 CFU), Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome (in English)

“Pericolosità Sismica e Difesa del Territorio” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria dell’Ambiente per lo Sviluppo Sostenibile, Sapienza University of Rome (Latina campus, course not provided due to absence of students)

“Valutazione del Rischio nei Cantieri Temporanei e Mobili” (ING-IND/28, 30 hours, 3 CFU), Corso Professionalizzante in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome

“Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (Term contract as Lecturer)

2022-2023 “Geotecnica” (ICAR/07, 60 hours, 6 CFU), Laurea In Ingegneria Ambientale e Industriale, Sapienza University of Rome (Latina campus)

“Tunnelling and Excavation Engineering” (ING-IND/28, 90 hours, 9 CFU), Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome (in English)

“Pericolosità Sismica e Difesa del Territorio” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria dell’Ambiente per lo Sviluppo Sostenibile, Sapienza University of Rome (Latina campus, course not provided due to absence of students)

“Valutazione del Rischio nei Cantieri Temporanei e Mobili” (ING-IND/28, 30 hours, 3 CFU), Corso Professionalizzante in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome

“Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (Term contract as Lecturer)

2021-2022 “Geotecnica” (ICAR/07, 60 hours, 6 CFU), Laurea In Ingegneria Ambientale e Industriale, Sapienza University of Rome (Latina campus)

“Tunnelling and Excavation Engineering” (ING-IND/28, 90 hours, 9 CFU), Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome (in English)

“Pericolosità Sismica e Difesa del Territorio” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria dell’Ambiente per lo Sviluppo Sostenibile, Sapienza University of Rome (Latina campus, course not provided due to absence of students)

“Valutazione del Rischio nei Cantieri Temporanei e Mobili” (ING-IND/28, 30 hours, 3 CFU), Corso Professionalizzante in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome

“Laboratorio di Valutazione del Rischio nei Cantieri Temporanei e Mobili” (ING-IND/28, 30 hours, 3 CFU), Corso Professionalizzante in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome

“Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (Term contract as Lecturer)

2020-2021 “Tunnelling and Excavation Engineering” (ING-IND/28, 90 hours, 9 CFU), Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome (in English)

“Produzione e Gestione Geo-Risorse Fluide” (ING-IND/30, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria dell’Ambiente per lo Sviluppo Sostenibile, Sapienza University of Rome (Latina campus)

“Valutazione del Rischio nei Cantieri Temporanei e Mobili” (ING-IND/28, 60 hours, 6 CFU), Corso Professionalizzante in Tecniche per l’Edilizia e il Territorio per la Professione del Geometra, Sapienza University of Rome

“Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (Term contract as Lecturer)

2019-2020 “Safety Regulations in Mining and Petroleum Activities” (GEO/11, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome (in English)

“Geotechnical Engineering” (ICAR/07, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (in English)

“Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna

- “Ingegneria delle Rocce” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2018-2019 “Geotechnical Engineering” (ICAR/07, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Ingegneria delle Rocce” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Modelli Numerici per la Geoingegneria” (ING-IND/28, module 2 of 24 hours, 3 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2017-2018 “Geotechnical Engineering” (ICAR/07, module 1 of 24 hours, 3 CFU), Laurea Magistrale in Civil Engineering and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Ingegneria delle Rocce” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Modelli Numerici per la Geoingegneria” (ING-IND/28, module 2 of 24 hours, 3 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Ingegneria e Sicurezza degli Scavi” (ING-IND/28, module 2 of 24 hours, 3 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016-2017 “Geotechnical Engineering” (ICAR/07, module 1 of 24 hours, 3 CFU), Laurea Magistrale in Civil Engineering and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Ingegneria delle Rocce” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Modelli Numerici per la Geoingegneria” (ING-IND/28, module 2 of 24 hours, 3 CFU), Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna

- “Ingegneria e Sicurezza degli Scavi” (ING-IND/28, module 2 of 24 hours, 3 CFU),
Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2015-2016 “Geotechnical Engineering” (ICAR/07, module 1 of 24 hours, 3 CFU), Laurea Magistrale
in Civil Engineering and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio,
University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna
- “Ingegneria delle Rocce” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in
Ingegneria per l’Ambiente e il Territorio, University of Bologna
- “Modelli Numerici per la Geoingegneria” (ING-IND/28, module 2 of 24 hours, 3 CFU),
Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2014-2015 “Geotechnical Engineering” (ICAR/07, module 1 of 24 hours, 3 CFU), Laurea Magistrale
in Civil Engineering and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio,
University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 48 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna
- “Ingegneria delle Rocce e delle Cave” (ING-IND/28, module 2 of 30 hours, 3 CFU),
Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2013-2014 “Geotechnical Engineering” (ICAR/07, module 1 of 30 hours, 3 CFU), Laurea Magistrale
in Civil Engineering and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio,
University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna
- “Ingegneria delle Rocce e delle Cave” (ING-IND/28, module 2 of 30 hours, 3 CFU),
Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2012-2013 “Geotechnical Engineering” (ICAR/07, module 1 of 30 hours, 3 CFU), Laurea Magistrale
in Civil Engineering, University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna

- “Ingegneria delle Rocce e delle Cave” (ING-IND/28, module 2 of 30 hours, 3 CFU),
Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2011-2012 “Geotechnical Engineering” (ICAR/07, module 1 of 30 hours, 3 CFU), Laurea Magistrale
in Civil Engineering, University of Bologna (in English)
- “Opere in Sottterraneo” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna
- “Stabilità dei Pendii in Roccia” (ING-IND/28, 30 hours, 3 CFU), Laurea in Ingegneria
per l’Ambiente e il Territorio, University of Bologna
- 2010-2011 “Opere in Sottterraneo” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile and Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of
Bologna
- “Stabilità dei Pendii in Roccia” (ING-IND/28, 30 hours, 3 CFU), Laurea in Ingegneria
per l’Ambiente e il Territorio, University of Bologna
- 2009-2010 “Opere in Sottterraneo” (ING-IND/28, 60 hours, 6 CFU), Laurea Magistrale in Ingegneria
Civile, University of Bologna
- 2008-2009 “Cave e Recupero Ambientale” (ING-IND/28, 60 hours, 6 CFU), Laurea in Ingegneria
per l’Ambiente e il Territorio, University of Bologna
- 2007-2008 “Cave e Recupero Ambientale” (ING-IND/28, 60 hours, 6 CFU), Laurea in Ingegneria
per l’Ambiente e il Territorio, University of Bologna
- 2004-2005 Term contract as Lecturer for the course of “Geotecnica e Fondazioni” (ICAR/07, 30
hours, 2 CFU) - unit of the “Laboratorio di Costruzione”, Laurea Specialistica in
Architettura Quinquennale UE, Sapienza University of Rome
- 2003-2004 Term contract as Lecturer for the course of “Geotecnica e Fondazioni” (ICAR/07, 30
hours, 2 CFU) - unit of the “Laboratorio di Costruzione”, Laurea Specialistica in
Architettura Quinquennale UE, Sapienza University of Rome
- 1998-2005 Teaching Assistant for the courses of “Meccanica delle Rocce” and “Costruzioni in
Sottterraneo” held by Prof. Ribacchi, Engineering Faculty, Sapienza University of Rome
- 1998-199 Teaching Assistant for the course of “Geotecnica” held by Prof. Albino Lembo Fazio,
Engineering Faculty, University Roma Tre

5.2 Teaching Activities in PhD Programmes

- Coordinator of the PhD course on “Numerical Modelling of Geomechanical Problems” (15 hours), PhD program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome, from 23 January 2024 to 31 January 2024
- Lectures on “A review of finite element theory for linear and nonlinear materials” (3 hours, 23 January 2024), “Numerical implementation of soil constitutive laws” (3 hours, 25 January 2024), “Pore pressure calculation, seepage and consolidation” (3 hours, 26 January 2024), and “Relevant Issues in practical applications” (1.5 hours, 31 January 2024), PhD course on “Numerical Modelling of Geomechanical Problems”, PhD program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome
- Coordinator of the PhD course on “Recenti Sviluppi nella Progettazione di Opere in Sottterraneo” (25 hours), PhD program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome, from 5 December 2022 to 20 December 2022
- Lectures on “Caratterizzazione geotecnica per la progettazione di gallerie” (3 hours, 5 December 2022) and “Approcci progettuali per lo scavo in tradizionale” (3 hours, 7 December 2022), PhD course on “Recenti Sviluppi nella Progettazione di Opere in Sottterraneo”, PhD program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome
- Lectures on “Modellazione costitutiva e numerica dei geomateriali” (15 hours, from 15 to 20 June 2010), PhD program in Geoingegneria, Georisorse e Ingegneria Geotecnica, University of Bologna
- Lectures on “Modellazione costitutiva e numerica dei geomateriali” (12 hours, from 26 May to 4 June 2009), PhD program in Geoingegneria, Georisorse e Ingegneria Geotecnica, University of Bologna
- Lectures on “Modellazione costitutiva e numerica dei geomateriali” (12 hours, from 29 April to 7 May 2008), PhD program in Geoingegneria, Georisorse e Ingegneria Geotecnica, University of Bologna
- Lectures on “Modellazione costitutiva dei geomateriali” (12 hours, 16-19 July 2007), PhD program in Georisorse e Geotecnologie, University of Bologna
- Lectures on “Plasticità Computazionale” (24 hours, from 19 September 2006 to 2 October 2006), PhD program in Georisorse e Geotecnologie, University of Bologna

5.3 Teaching Activities in Master Courses, Workshops, Summer/Winter Schools, etc...

- 2023 II level Master on “Progettazione Sostenibile di Opere Geotecniche e Gallerie” organised by Politecnico di Torino, on-line, 5 hours on “Stato di sforzo e di deformazione intorno ad una galleria circolare”, 3 hours on “Metodo delle curve caratteristiche”
- 2022 Course on “Modelli Geotecnici per la Stabilità dei Pendii e Fronti di Scavo in Ammassi Rocciosi: dalla Teoria ai Casi di Studio” organised by the International Centre for Mechanical Sciences (CISM), Udine, 1 hour on “Meccanismi di instabilità e metodi di analisi”, 1 hour on “Analisi in condizioni sismiche”, 1 hour on “Stabilità delle spalle di dighe ad arco”
- 2022 II level Master on “Progettazione Sostenibile di Opere Geotecniche e Gallerie” organised by Politecnico di Torino, on-line, 2.5 hours on “Rock burst”
- 2022 Director (together with Prof. Hany Helal of Cairo University) of the 1st School “Piero Gazzola” on “Rock Mechanics for Cultural Heritage Preservation” (38 hours), Faculty of Engineering, Cairo University (Egypt), from 14 to 20 May 2022
- 2022 1st School “Piero Gazzola” on “Rock Mechanics for Cultural Heritage Preservation”, organised by Sapienza University of Rome and Cairo University, Cairo (Egypt), 70 minutes on “Introduction to Rock Mechanics, characteristic of rocks”, 70 minutes on “Laboratory tests, mechanical properties of rocks, discontinuities and rock-masses”, 70 minutes on “Stability of rock slopes (sliding)”, 70 minutes on “Exercise n. 2: mechanical properties of discontinuities”, one-day field trip to Saqqara
- 2022 10th Course on “Coordinatori della Sicurezza nei Cantieri Temporanei o Mobili” organised by the Ordine degli Ingegneri della Provincia di Ascoli Piceno, Ascoli Piceno, 3 hours on “Rischi e misure organizzative e di sicurezza negli scavi; tavola tecnica degli scavi”, 2 hours on “Il rischio nelle opere in sotterraneo e in galleria”
- 2021 Course on “Modellazione Numerica di Scavi e Gallerie in Area Urbana” organised by Infrarail Academy, Florence, 2 hours on “Introduzione alla modellazione FEM”, 2 hours on “Simulazione numerica di scavi e gallerie superficiali”, 2 hours on “Analisi dei cedimenti ed effetto dell’interazione terreno-struttura sui danni indotti negli edifici”
- 2021 Course on “Calculation Methods for Tunnel Design” organised by ITACET Foundation, AMITOS, ITA-CET, on-line, 4 hours on “Convergence confinement method”
- 2020 II level Master on “Tunnelling and Tunnel Boring Machines” organised by Politecnico di Torino, Turin, 4 hours on “Statics on Underground Works”

- 2019 Course on “Richiami di Meccanica delle Rocce e Statica delle Gallerie” organised by BBT-SE Academy, Fortezza, 4 hours on “Richiami di Meccanica delle Rocce”, 5 hours on “Richiami di Statica delle Gallerie”
- 2018 9th Course on “Coordinatori della Sicurezza nei Cantieri Temporanei o Mobili” organised by the Ordine degli Ingegneri della Provincia di Ascoli Piceno, Ascoli Piceno, 3 hours on “Rischi e misure organizzative e di sicurezza negli scavi; tavola tecnica degli scavi”, 2 hours on “Il rischio nelle opere in sotterraneo e in galleria”
- 2015 8th Course on “Coordinatori della Sicurezza nei Cantieri Temporanei o Mobili” organised by the Ordine degli Ingegneri della Provincia di Ascoli Piceno, Ascoli Piceno, 5 hours on “Rischi e misure organizzative e di sicurezza negli scavi; tavola tecnica degli scavi”, 2 hours on “Il rischio nelle opere in sotterraneo e in galleria”
- 2013 Course on “La Progettazione di Opere Geotecniche in Campo Sismico” organised by the Emilia-Romagna Region, Bologna, 2 hours on “Interazione terreno-struttura. Fondazioni superficiali: analisi pseudo-statica e dinamica” (1st edition), 2 hours on “Interazione terreno-struttura. Fondazioni superficiali: analisi pseudo-statica e dinamica” (2nd edition)
- 2012 Workshop on “Geotechnical Surveys” organized by Enel University, Rome, 2 hours on “Elements of Rock Mechanics”
- 2010 7th Course on “Coordinatori della Sicurezza nei Cantieri Temporanei o Mobili” organised by the Ordine degli Ingegneri della Provincia di Ascoli Piceno, Ascoli Piceno, 2 hours on “Il rischio negli scavi e nelle demolizioni”, 3 hours on “Il rischio nelle opere in sotterraneo e in galleria”
- 2008 Course on “Frane e Dissesti” organised by the Lazio Region, Rome, 4 hours on “Analisi degli sforzi e delle deformazioni. Mezzi continui”, 4 hours on “Mezzi discontinui e analisi della propagazione”
- 2004 Course on “Tecnico di Ricerca nella Valutazione del Rischio Ambientale in relazione ai Beni Culturali” organised by Consorzio Civita, Portici, 6 hours on “Valutazione della pericolosità ambientale”, 6 hours on “Vulnerabilità e danneggiabilità dei beni culturali”, 6 hours on “Tecniche di mitigazione funzionale e metodologie a basso impatto”
- 2001 Master on “Stabilizzazione e Conservazione dei Centri Storici in Territori Instabili” organised by the Umbria Region, Orvieto, 6 hours on “Principi di Geotecnica”, 3 hours on “Complementi di Meccanica delle Rocce”, 2 hours on “Stabilità dei Pendii”
- 2000 Master on “Stabilizzazione e Conservazione dei Centri Storici in Territori Instabili” organised by the Umbria Region, Orvieto, 3 hours on “Principi di Geotecnica”

5.4 Supervision of Post-Graduate Students

- 2023-2024 Supervisor of Elia Maiello and Marco Aganetti, II level Master on “Progettazione Sostenibile di Opere Geotecniche e Gallerie” organised by Politecnico di Torino, on-line, 25 hours of tutoring
- 2015-2016 Supervisor of Sara Bertolin, Research Grant (Assegno di Ricerca) on “Modellazione delle strutture intelaiate in cemento armato interagenti con gallerie superficiali”, 1 year, University of Bologna

5.5 Supervision of Graduate Students

- 2023 Supervisor of Matilde Bacci, thesis “Utilizzo dei parametri macchina per la caratterizzazione e l’analisi di un tratto scavato in meccanizzato della Galleria di Base del Brennero”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2024 Supervisor of Benedetta Canonaco, thesis “Analisi della risposta sismica della galleria TT10 del CERN”, Laurea Magistrale in Ingegneria della Sicurezza e Protezione Civile, Sapienza University of Rome
- 2023 Supervisor of Luca Vignali, thesis “Analisi del comportamento sismico di gallerie: il caso della galleria TT10 del CERN”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2023 Supervisor of Luigi Iannaccio, thesis “Modellazione numerica dell’intervento di compensation grouting per la mitigazione dei possibili effetti indotti alla Fortezza da Basso dallo scavo del Passante AV di Firenze”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Supervisor of Saduni Melissa Dahanayaka, thesis “Indagini ed ispezioni su gallerie esistenti: il caso di studio di una galleria in centro Italia”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Supervisor of Chiara Chierichini, thesis “Analisi di stabilità della tomba Lattanzi nell’area archeologica della necropoli di Norchia”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Supervisor of Milena Diletto, thesis “Analisi delle condizioni di stabilità dell’area archeologica di Cuma (NA)”, Laurea Magistrale in Ingegneria Civile, University of Bologna

- 2022 Supervisor of Lorenzo Concetti, thesis “Verifica di resistenza al fuoco del rivestimento definitivo in c.a. di una galleria ferroviaria”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Supervisor of Andrea Catani, thesis “Analisi dei parametri di scavo meccanizzato nella formazione amiantifera di Molare della Galleria di Valico”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Supervisor of Kamruzaman Jhaed Abul, thesis “Studio di interazione del Passante AV di Firenze con la Fortezza da Basso”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Supervisor of Davide Papa, thesis “Caratterizzazione e analisi del comportamento degli ammassi rocciosi di un tratto scavato in meccanizzato della Galleria di Base del Brennero”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Supervisor of Sara Cristalli, thesis “Modellazione numerica della risposta sismica locale dei terreni di fondazione delle due torri di Bologna”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Supervisor of Luca Badini, thesis “Valutazione degli spostamenti irreversibili indotti dal sisma sulla spalla di fondazione di una diga ad arco-gravità”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Supervisor of Chiara Spaggiari, thesis “Concept, design, and testing of an innovative geothermal heat exchanger installed at the Brenner Base Tunnel”, Laurea Magistrale in Civil Engineering, University of Bologna
- 2020 Supervisor of Seyedmohsen Miraei, thesis “Tunnelling-induced deformation and damage on framed structures with masonry infills”, Laurea Magistrale in Civil Engineering, University of Bologna
- 2020 Supervisor of Gabriella Covelli, thesis “Analisi dei dati di monitoraggio dei versanti in frana interagenti con la galleria artificiale Campus (CZ)”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Leonardo Riccio, thesis “Analisi dell'attraversamento della faglia Periadriatica con la galleria di accesso del tunnel di base del Brennero”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2020 Supervisor of Stefania Zaccaria, thesis “Studio del fenomeno franoso che insiste sull'abitato di Predappio Alta:analisi di stabilità e possibili interventi di mitigazione del

- rischio”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Francesco Tassone, thesis “Modellazione numerica dello scavo di gallerie con esplosivo”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Marta Michetti, thesis “Analisi di risposta sismica locale dei terreni di fondazione delle Due Torri di Bologna”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Roberta Marrazzo, thesis “Analisi delle emissioni acustiche durante prove di compressione uniassiale su provini di granito di Bressanone”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Sofia Loreti, thesis “Analisi dei processi di instabilità nell'area archeologica della necropoli di Norchia e progetto di un intervento di mitigazione”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Gianluca Liuzzi, thesis “L’utilizzo dei parametri macchina per la classificazione degli ammassi rocciosi in fase di scavo”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Matteo D’Angelo, thesis “Interazione tra lo scavo di gallerie e strutture intelaiate: modellazione del comportamento osservato in centrifuga”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2020 Supervisor of Luca Balducci, thesis “Analisi ed interventi di mitigazione nel sito archeologico di Uplistsikhe (Georgia)”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2019 Supervisor of Andrea Segat, thesis “Messa in sicurezza del sito archeologico di Vanis Kvabebi (Georgia)”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2019 Supervisor of Silvia Gambino, thesis “Caratteristiche dello stato tensionale determinate durante lo scavo del Cunicolo Esplorativo de "La Maddalena"”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2019 Supervisor of Edoardo Lusini, thesis “Comportamento e stabilità della spalla destra della diga di Ridracoli”, Laurea Magistrale in Ingegneria Civile, University of Bologna

- 2019 Supervisor of Mattia Siboni, thesis “Studio dei valori di soglia di rischio di rockburst ottenuti mediante una nuova prova sperimentale nella galleria di base del Brennero”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2019 Supervisor of Giacomo Rigon, thesis “Effects of settlements on Pombalino buildings (Lisbon) taking into account soil-structure interaction”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (the thesis was partially carried out at the l'Instituto Superior Tecnico of Lisbon under the supervision of Prof. Rui Carrilho Gomez)
- 2019 Supervisor of Saverio Mengoni, thesis “Caratterizzazione e analisi dei processi di instabilità delle tombe etrusche nella necropoli dei Monterozzi a Tarquinia”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2018 Supervisor of Beatrice Billi Roveri, thesis “Scavo di gallerie superficiali: modellazione in centrifuga e analisi per immagini degli spostamenti mediante codice GeoPIV”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (the thesis was partially carried out at the University of Nottingham under the supervision of Prof. Alec Marshall)
- 2018 Supervisor of Lidia Valguarnera, thesis “Metodo sperimentale per la determinazione della soglia di rischio rockburst nella Galleria di Base del Brennero”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2018 Supervisor of Giuseppe Marco Foderà, thesis “Studio dei fattori di maggiore influenza sul fenomeno del sovrascavo in gallerie scavate con metodo tradizionale”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2018 Supervisor of Matteo Franchi, thesis “Effetti causati dalla costruzione di una galleria di grandi dimensioni su infrastrutture presenti in superficie”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2018 Supervisor of Cecilia Soli, thesis “Evaluation of damage induced by drill and blast excavation in tunnelling on existing structures”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2018 Supervisor of Angela Panichella, thesis “Studio degli eventi microsismici nella Galleria di Base del Brennero come possibile strumento di previsione dei fenomeni di rockburst”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2017 Supervisor of Marko Stokic, thesis “Numerical modelling of tunnelling-induced damage on reinforced concrete buildings”, Laurea Magistrale in Civil Engineering, University of Bologna

- 2017 Supervisor of Alessandro Malservisi, thesis “Caratterizzazione meccanica e modellazione agli Elementi Finiti della parete rocciosa di Vardzia”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016 Supervisor of Alessio Saviano, thesis “Effect of misalignment on the undrained HV capacity of suction anchors in clay”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna (the thesis was partially carried out at the Delft University of Technology under the supervision of Prof. Federico Pisanò)
- 2016 Supervisor of Angela Vercillo, thesis “Tunnelling induced settlements in soils under the water table”, Laurea Magistrale in Ingegneria Civile, University of Bologna (the thesis was partially carried out at the ETH Zurich under the supervision of Prof. Georgios Anagnostou)
- 2016 Supervisor of Matteo Lanconelli, thesis “Studio di fattibilità per lo sfruttamento geotermico delle gallerie del Brennero”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2016 Supervisor of Pasquale Giannetta, thesis “Analisi di stabilità e dei dati di monitoraggio di un blocco di grandi dimensioni nel Siq di Petra (Giordania)”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2016 Supervisor of Giulio Cimbali, thesis “Stability of the tunnel face reinforced by bolts under seepage flow conditions”, Laurea Magistrale in Ingegneria Civile, University of Bologna (the thesis was partially carried out at the ETH Zurich under the supervision of Prof. Georgios Anagnostou)
- 2016 Supervisor of Grazia Luna Guido, thesis “Caratterizzazione ed analisi di stabilità della parete tufacea del monastero rupestre di Vardzia in Georgia”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016 Supervisor of Nicola Fanelli, thesis “Scavi profondi in ambiente urbano: il caso della stazione Dateo di Milano”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015 Supervisor of Stefania Amato, thesis “Analisi agli Elementi Finiti del comportamento trasversale di gallerie rivestite con conci sotto azioni sismiche”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015 Supervisor of Sara Bertolin, thesis “Analisi dell’interazione tra lo scavo della galleria Val di Sambro e i movimenti di versante: interpretazione dei dati di monitoraggio e modellazione numerica 3D”, Laurea Magistrale in Ingegneria Civile, University of Bologna

- 2015 Supervisor of Daniele Stafisso, thesis “Drilling parameters analysis and correlations with rock-mass characteristics. The case study of the Brenner Base Tunnel”, Laurea Magistrale in Civil Engineering, University of Bologna
- 2015 Supervisor of Mirka Matassoni, thesis “Analysis of a full-displacement pile foundation: a case study in Parma”, Laurea Magistrale in Civil Engineering, University of Bologna
- 2014 Supervisor of Davide Pancaldi, thesis “Analisi di interazione tra la linea Metro C e le Mura Aureliane: il caso del pozzo multifunzionale di Porta Asinaria”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2014 Supervisor of Elena Gentilini, thesis “Modellazione numerica della risposta sismica locale: il caso di Lotung”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2014 Supervisor of Federico Giorgini, thesis “Analisi del crollo di una galleria idraulica in esercizio e valutazione delle soluzioni progettuali”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2013 Supervisor of Dinka Curic, thesis “Applicazione di una tecnologia avanzata per il consolidamento di terreni argillosi mediante jet grouting: il caso della galleria Cavallo”, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2013 Supervisor of Luca Zandonella Callegher, thesis “La demolizione con esplosivo della Diga di Beauregard (Aosta)”, Laurea Magistrale in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2013 Supervisor of Angelo Crecca, thesis “Analisi dei movimenti franosi indotti dallo scavo di una galleria in una formazione strutturalmente complessa”, Laurea Magistrale in Ingegneria Civile, University of Bologna

5.6 Supervision of Undergraduate Students

- 2023 Supervisor of Samuele Riccobene, thesis “Aspetti costruttivi di dettaglio delle gallerie naturali”, Laurea in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome
- 2023 Supervisor of Valerio Assorati, thesis “Caratterizzazione geotecnica dei terreni in corrispondenza del campo prova di compensation grouting per la TAV di Firenze”, Laurea in Ingegneria Ambientale e Industriale, Sapienza University of Rome
- 2018 Supervisor of Leonardo Ambrogetti, thesis “Analisi del progetto esecutivo di stabilizzazione della parete Est della rupe di San Leo”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna

- 2016 Supervisor of Francesco Valentini, thesis “Caratterizzazione geotecnica sismica del sito di Dovadola”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016 Supervisor of Elisabetta Renzi, thesis “Analisi del comportamento di un rilevato sperimentale costruito su un deposito argilloso soffice”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016 Supervisor of Andrea Caldirola, thesis “Analisi di stabilità di un grosso blocco lungo il versante roccioso del monastero di Vardzia”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2016 Supervisor of Raffaello Trentin, thesis “Analisi dei dati di monitoraggio e delle condizioni di stabilità di un blocco in roccia nel Sito di Petra”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2013 Supervisor of Angela Iavarone, thesis “Impiego dei dati climatologici nella valutazione dell'infiltrazione in pendii instabili”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna
- 2012 Supervisor of Giorgia Benedicta Marzi, thesis “Analisi dei movimenti indotti su un versante dallo scavo di una galleria”, Laurea in Ingegneria per l’Ambiente e il Territorio, University of Bologna

5.7 Supervision of Student External Internships

- 2024 Academic tutor of Gines Ramirez Harahamiz Leonard Nelson, internship in Seli Overseas S.p.A., Lonato del Garda (BS), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2023-2024 Academic tutor of Riccardo Tosatto, internship in Pini Group S.r.l., Lomazzo (CO), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2023-2024 Academic tutor of Matilde Bacci, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2023 Academic tutor of Samuele Riccobene, internship in GPI Gestione Progetti Ingegneria S.r.l. (48 CFU), Rome, Corso di Laurea Professionalizzante in Professioni Tecniche per l’Edilizia e il Territorio, Sapienza University of Rome
- 2023 Academic tutor of Luca Vignali, internship in Pini Group S.r.l., Lomazzo (CO), Laurea Magistrale in Ingegneria Civile, University of Bologna

- 2022 Academic tutor of Luigi Iannaccio, internship in INFRARAIL Firenze S.r.l., Florence, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2022 Academic tutor of Saduni Melissa Dahanayaka, internship in Pizzi Terra S.r.l., Bagno a Ripoli (FI), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021-2022 Academic tutor of Alberto Turra, internship in Officine Maccaferri Italia S.r.l., Zola Pedrosa (BO), Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2021-2022 Academic tutor of Chiara Chierichini, internship in ISPRA, Rome, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Academic tutor of Milena Diletto, internship in ISPRA, Rome, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Academic tutor of Kamruzaman Jhaed Abul, internship in INFRARAIL Firenze S.r.l., Florence, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Academic tutor of Davide Papa, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Academic tutor of Andrea Catani, internship in Seli Overseas S.p.A., Acqui Terme (AL), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2021 Academic tutor of Lorenzo Concetti, internship in Pini Group S.r.l., Lomazzo (CO), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2020-2021 Academic tutor of Chiara Spaggiari, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Civil Engineering, University of Bologna
- 2019-2020 Academic tutor of Gabriella Covelli, internship in METROFC S.c.a.r.l., Catanzaro, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2019-2020 Academic tutor of Francesco Tassone, internship in Pini Group S.r.l., Lomazzo (CO), Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2019-2020 Academic tutor of Sofia Loreti, internship in ISPRA, Rome, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2019-2020 Academic tutor of Gianluca Liuzzi, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna

- 2019 Academic tutor of Leonardo Riccio, internship in L.S.I. Lavori Stradali e Idraulici S.r.L., Mules (BZ), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2019 Academic tutor of Stefania Zaccaria, internship in Enser S.r.l., Faenza (RA), Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2019 Academic tutor of Mattia Siboni, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2019 Academic tutor of Vittorio Rosati, internship in Enser S.r.l., Faenza, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2018 Academic tutor of Saverio Mengoni, internship in ISPRA, Rome, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna
- 2017-2018 Academic tutor of Lidia Varguarnera, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2017-2018 Academic tutor of Giuseppe Marco Foderà, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2017-2018 Academic tutor of Cecilia Soli, internship in Pini Swiss Engineers, Zurich, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2017-2018 Academic tutor of Angela Panichella, internship in Astaldi S.p.a., Mules (BZ), Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2016 Academic tutor of Diego Murini, internship in Betti S.p.a., Terni, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015-2016 Academic tutor of Matteo Lanconelli, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015-2016 Academic tutor of Nicola Fanelli, internship in Astaldi S.p.a., Milan, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015 Academic tutor of Pasquale Giannetta, internship in Consorzio Cociv, Genoa, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2015 Academic tutor of Grazia Luna Guido, internship in Regione Emilia Romagna – Servizio Tecnico di Bacino Romagna, Bologna, Laurea Magistrale in Ingegneria per l'Ambiente e il Territorio, University of Bologna

- 2014-2015 Academic tutor of Chiara Incerti, internship in Studio di Ingegneria Guidetti-Serri, Reggio Emilia, Laurea Magistrale in Ingegneria Civile, University of Bologna
- 2014-2015 Academic tutor of Daniele Stafisso, internship in Galleria di Base del Brennero - Brenner Basistunnel BBT SE, Bolzano, Laurea Magistrale in Civil Engineering, University of Bologna
- 2014-2015 Academic tutor of Mirka Matassoni, internship in Enser S.r.l., Faenza (RA), Laurea Magistrale in Civil Engineering, University of Bologna
- 2013 Academic tutor of Angelo Crecca, internship in Toto S.p.a., Castiglione di Pepoli (BO), Laurea Magistrale in Civil Engineering, University of Bologna

5.8 Quality and Innovative Actions in Teaching Activities

- Co-author of the under-preparation textbook “Analytical and Empirical Solutions for Tunnel Design” by Daniela Boldini and Alessandro Graziani, to be published by 2026 by CRC Press.
- Co-author of the textbook “Rock Mechanics. Theory and Applications in Engineering” by Renato Ribacchi, Tatiana Rotonda, Alessandro Graziani, Daniela Boldini, Paolo Tommasi and Albino Lembo Fazio (2018), published by Efesto and Hevelius Edizioni, 468 pages
- In all the courses theoretical lessons are always combined with hours dedicated to design exercises, to be presented at the final exam for the definition of the final score
- In all courses, classroom lessons are integrated with visits to the Soil Mechanics or Rock Mechanics laboratories and to Civil Engineering construction sites
- Recipient of the Cambridge Advanced English Certificate (CAE), level C1 CEFR, as part of an initiative promoted by the Department of Civil, Chemical, Environmental and Materials Engineering of the University of Bologna to improve the linguistic skills of teachers involved in international courses taught in English (17 March 2018)
- Most of the Laurea and Laurea Magistrale theses were conducted in the context of research collaborations with national and international bodies and companies, in the form of internships (see section 5.7) and agreements (see section 6.9)
- During the COVID pandemic, she co-promoted inter-university seminars in teleconference mode organized with professors of the Politecnico di Turin (Prof. Daniele Peila), University of Trento (Prof. Alessandro Gajo) and University of Bologna (Prof. Roberto Bruno) to stimulate cultural and scientific initiatives related to the world of underground works, rock mechanics and engineering and mining engineering. The following seminars were organised: 1) "Barre passive per il rinforzo di ammassi rocciosi" by Alessandro Graziani (20 May 2020); 2) "Scavo

meccanizzato a piena sezione nei terreni" by Daniele Peila (8 June 2020); 3) "L'ingegnere comunicatore: da technical writer a spokesperson" by Gianluca Dati, Viviana Corigliano e Davide Fuschi (16 June 2020); 4) "Modellazione del comportamento dei versanti in roccia in condizioni dinamiche" by Luca Verrucci, Mariano Mennitti e Monica Barbero (17 July 2020); 5) "Rockfall protection techniques" by Daniele Peila, Maddalena Marcheselli e Valerio De Biagi (13-26 November 2020); 6) "La microzonazione sismica per la pianificazione e la ricostruzione: stato dell'arte e casi di studio dall'esperienza italiana" by Massimiliano Moscatelli (19 November 2020); 7) "Pericolosità da sinkholes naturali e antropici" by Paolo Maria Guarino (10 December 2020); 8) "Tecnologie innovative per la conservazione e protezione del patrimonio culturale: dall'analisi geotecnica alla mitigazione sostenibile" by Daniele Spizzichino (17 December 2020)

6. Scientific Activities

6.1 Current research topics

- Constitutive modelling of weak rocks and saturated soils in the frame of multi-surface hardening plasticity
- Computational plasticity, with reference to implicit/explicit integration schemes for complex constitutive models
- Seismic site response analysis by numerical approaches: applications to single sites and urban areas
- Finite Element analyses of seismic soil-structure interaction problems: 2D and 3D applications to surface buildings, concrete dams and underground infrastructures
- Finite Element analyses of deep tunnel problems with special emphasis on lining design and hydro-mechanical couplings
- Finite Element analyses of the interaction between tunnels-soils-surface structures: applications to the Milan, Rome and Florence underground lines construction accounting for the presence of surface masonry or reinforced concrete structures
- Characterisation of bimrocks and soil-rock mixtures by experimental and numerical investigations
- Rock mechanics applied to cultural heritage preservation
- Interpretation of monitoring data collected during the excavation of deep tunnels in relation to rockburst, squeezing and overbreak problems and TBM performance

6.2 Keynote and Panel Lectures, Invited Seminars and Lectures

- Invited Lecture on “Developments in geometrical and mechanical modelling of block-in-matrix geomaterials” at the “International Colloquium on Multiscale and Multiphysics Modelling for Advanced and Sustainable Materials” (Rome, 23-27 September 2024)
- Invited Keynote Lecture on “The role of numerical and constitutive modelling in the seismic design and retrofitting of tunnels” at the “International Workshop on Computational Dynamic Soil-Structure Interaction (CompDSSI)” (Assisi, 11-13 September 2024)
- Invited General Report on “Field Case Studies” at the “11th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground” (Macao SAR, 14-17 June 2024)

- Invited Lecture on “Numerical modelling of soil-structure interaction during shallow tunnelling” at the Conference on “Effects Induced by Tunnel Construction in Urban Areas: Prediction, Control and Mitigation” organised by the Società Italiana Gallerie (Naples, 7 June 2024)
- Invited Lecture on “La gestione del rischio rockburst durante lo scavo di gallerie: dal progetto al monitoraggio in corso d’opera” at the Conference on “Monitoraggio in Fase di Costruzione di Nuove Gallerie e Tecniche di Risanamento di Gallerie Esistenti” organised by the Società Italiana Gallerie (Rome, 10 April 2024)
- Invited Keynote Lecture on “The response of framed structures to tunnelling: experimental results, numerical assessment and monitoring evidence” at the “VIII Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica – CNRIG” (Palermo, 5-7 July 2023)
- Invited Lecture on “A 3D DEM modelling approach for investigating the mechanical behavior of bimsoils” at the “2nd International Workshop on Complex Formations” (Turin, 9 May 2023)
- Invited Panel on “Numerical modelling of framed structures with masonry infills affected by tunnelling-induced deformation and damage” at the “10th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground” (Cambridge, 27-28 June 2022)
- Invited Lecture on “The excavation of the Brenner Base Tunnel under the Alps: an insight into the rock-mass behaviour and TBM performance” at the “Prague Geotechnical Days 2022” (Prague, 23-24 May 2022)
- Invited Lecture on "Slope instability induced by climate changes on the Unesco Etruscan necropolis (Tarquinia, Central Italy)" at the “Symposium on Sustainable Conservation of UNESCO and Other Heritage Sites through Proactive Geosciences” (Egypt, 10-12 December 2019)
- Invited Lecture on “A new methodology for the rock-burst assessment during tunnel construction” at the “VII Convegno Nazionale Ricercatori Ingegneria Geotecnica” (Lecco, 3-5 July 2019)
- Invited Lecture on “Modellazione numerica della risposta di strutture alle vibrazioni indotte dallo scavo con esplosivo” at the “Conference on “Il Mondo degli Esplosivi” (Rome, 28 March 2018);
- Invited Lecture on “Misure inclinometriche. Casi applicativi. Instabilità dei pendii ed infrastrutture” at the “Prima giornata di studio del ciclo formativo sulle Raccomandazioni sul

monitoraggio geotecnico” organised by the Associazione Geotecnica Italiana and Altascuola (Orvieto, 17 October 2017)

- Invited Lecture on “Movimenti franosi indotti dallo scavo di gallerie: l'esperienza della Variante di Valico ed il caso della galleria Val di Sambro” at the Conference “Linee Guida su Rischio Frana” organised at the RemTech Esonda Expo (Ferrara, 21 September 2017)
- Invited Seminar on “Modelling tunnelling-induced deformation on surface structures” at the Ruhr University di Bochum (Bochum, 11 July 2017)
- Invited Lecture on “Tunnelling-induced settlements in reinforced concrete structures” at the “Sapienza Università di Roma - Ruhr-Universität Bochum Geotechnical Workshop” (Rome, 6 February 2017)
- Invite Lecture (floor contribution) on “Influence of hydro-mechanical coupling on tunnel response in clays” at the “3xV – International Workshop in Napoli” (Naples, 16 December 2016)
- Invited Seminar on “Influence of Hydro-Mechanical Coupling on Tunnel Response in Clays” at the ETH of Zurich (Zurich, 16 December 2015)
- Invited Lecture on “Seismic ground response and soil-structure interaction phenomena at Lotung: hysteretic elasto-plastic based 3D analyses” at the "PRENOLIN Workshop on Site Effect Estimation" (Paris, 9 October 2015)
- Invited Lecture on “Tunnelling-induced landslides: the case of the Val di Sambro tunnel (Italy)” at the “12 Tiroler Geotechnik und Tunnelbautag” (Innsbruck, 14 November 2014)
- Invited Lecture on “Interazione sismica terreno-struttura” at the “SAIE 2012” (Bologna, 18 October 2012)
- Invited Lecture on "La realizzazione di una diga in terra su un deposito alluvionale recente: previsione del comportamento dei terreni di fondazione secondo approcci analitici e numerici" at the “V Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica - CNRIG 2006” (Bari, 15-16 September 2006)
- Invited Seminar on “Descrizione dei fenomeni franosi occorsi nel dicembre 2002 sul versante NW di Stromboli ed il loro meccanismo interpretato sulla base di prove di taglio anulare di grandi dimensioni” at the Politecnico di Bari (Bari, 28 November 2005)
- Invited Lecture on “The December 2002 landslides at Stromboli volcano (Italy) and their mechanisms interpreted by large scale ring shear tests” at the “3rd International Young Geotechnical Engineer Conference” (Osaka, 12-16 September 2005)

- Invited Lecture on “Esempi di applicazione del monitoraggio geotecnico nella caratterizzazione dell'ammasso roccioso durante lo scavo di gallerie” at the “X Ciclo di Conferenze di Meccanica e Ingegneria delle Rocce - MIR 2004” (Turin, 24-25 November 2004)
- Invited Lecture on “Chemo-mechanical analyses of ground-shotcrete interaction in NATM tunneling” at the “Workshop on Constitutive Modelling and Analysis of Boundary Value Problems in Geotechnical Engineering” (Naples, 22-24 April 2003)
- Invited Lecture on “Previsione degli afflussi d’acqua in galleria e influenza sull’ambiente” at the “IX Ciclo di Conferenze di Meccanica e Ingegneria delle Rocce - MIR 2002” (Turin, 26-27 November 2002)
- Invited Lecture on “L’analisi tensio-deformativa al fronte di scavo e nella zona del retrofornte” at the “VIII Ciclo di Conferenze di Meccanica e Ingegneria delle Rocce - MIR 2002” (Turin, 5-6 December 2000)

6.3 Presentations in International Conferences

- “Performance of different diameter Double Shield TBMs: experiences from the excavation of exploratory tunnel and main tubes of the Italian lot Mules 2-3 – Brenner Base Tunnel” at the “15th ISRM Congress 2023 & 72nd Geomechanics Colloquium” (Salzburg, 9-14 October 2023)
- “Tunnelling-induced displacements and damage on framed structures: comparison between numerical models” at the “16th International Conference of the International Association for Computer Methods and Advances in Geomechanics – IACMAG” (Turin, 30 August-2 September 2022)
- “Improved limit equilibrium methods for evaluating the shear strength of bimrocks during bintests” at the “16th International Conference of the International Association for Computer Methods and Advances in Geomechanics – IACMAG” (Turin, 30 August-2 September 2022)
- “Low-impact mitigation measures to contrast the instability processes affecting the Etruscan necropolis of Norchia” at the “Third International Symposium on Geotechnical Engineering for the Preservation of Monuments and Historic Sites” (Naples, 22-24 June 2022)
- “A multi-directional numerical approach for the seismic ground response and dynamic soil-structure interaction analyses” at the “VII International Conference on Earthquake Geotechnical Engineering” (Rome, 17-20 June 2019)

- “Three-dimensional numerical modelling of concrete framed structures affected by tunnelling-induced settlements” At the “EURO:TUN 2017 Computational Methods in Tunneling and Subsurface Engineering” (Innsbruck, 18-20 April 2017)
- “Numerical modelling of the interaction between a deep excavation and an ancient masonry wall” at the “Eighth International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground" (Seoul, 25-27 August 2014)
- “A three-invariant non-associative plasticity model for hard rocks: implicit integration and strain localization analysis” at the “International Symposium on Numerical Models in Geomechanics” (Rhodes, 25-27 April 2007)
- “Twenty-year monitoring of the Orvieto overconsolidated clayey slope (Italy)” at the “16th International Conference on Soil Mechanics and Geotechnical Engineering” (Osaka, 12-16 September 2005)
- “A Generalised Backward Euler scheme for the integration of a mixed isotropic-kinematic hardening model for clays” at the “VIII International Conference on Computational Plasticity - Fundamentals and Applications" (Barcellona, 5-8 September 2005)
- “Single surface hardening plasticity model for soft clays: mathematical formulation and implicit numerical integration” at the “International Workshop on Geotechnics of Soft Soils - Theory and Practice” (Noordwijkerhout, 17-19 September 2003)
- “The role of an advanced shotcrete constitutive model for reliable predictions of the ground-shotcrete interaction in tunneling” at the “10th Congress of the International Society for Rock Mechanics” (Johannesburg, 12-15 September 2003)
- “Analysis of monitoring data from a deep tunnel in a tectonized clay-shale (Raticosa tunnel, Italy)” at the “3rd International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground" (Toulouse, 23-25 October 2002)
- “Simplified behavior models of tunnel faces supported by shotcrete and bolts” at the “International Conference on Modern Tunnelling Science and Technology” (Kyoto, 30 October–1 November 2001)
- “Numerical analysis of ground-shotcrete interaction in tunnelling” at the “International Conference on Engineering Developments in Shotcrete" (Hobart, 2-4 April 2001)

6.4 Presentations in National Conferences and Research Meetings

- “Modellazione numerica della risposta di strutture intelaiate allo scavo di gallerie superficiali” at the “Incontro Annuale dei Ricercatori di Geotecnica 2017 – IARG 2017” (Matera, 5-7 July 2017)
- “Previsione del comportamento ciclico di sabbie alle piccole, medie e grandi deformazioni mediante un modello bounding surface” at the “XXVI Convegno Nazionale di Geotecnica” (Rome, 20-22 June 2017)
- “Analisi numerica della risposta sismica locale di un comune della Daunia secondo approcci 1D, 2D e 3D” at the “XXVI Convegno Nazionale di Geotecnica” (Rome, 20-22 June 2017)
- “Formulazione e validazione di un nuovo modello costitutivo per rocce tenere” at the “Incontro Annuale dei Ricercatori di Geotecnica 2014 – IARG 2014” (Chieti, 14-16 July 2014)
- “Modellazione dei fenomeni di risposta sismica locale: il caso di Lotung” at the “Incontro Annuale dei Ricercatori di Geotecnica 2011 – IARG 2011” (Turin, 4-6 July 2011)
- “Modellazione della risposta sismica locale mediante analisi agli Elementi Finiti” at the “Incontro Annuale dei Ricercatori di Geotecnica 2008 – IARG 2008” (Catania, 15-17 September 2007)
- “Analisi del comportamento dinamico di gallerie in terreni argillosi mediante approcci numerici disaccoppiati ed accoppiati” at the “Incontro Annuale dei Ricercatori di Geotecnica 2007 – IARG 2007” (Salerno, 4-6 July 2007)
- “Influenza dell’anisotropia indotta dallo stato di sforzo sulla previsione dei cedimenti indotti dallo scavo di gallerie superficiali” at the “Incontro Annuale dei Ricercatori di Geotecnica 2005 – IARG 2005” (Ancona, 29 June-1 July 2005)
- “Regime delle piogge, condizioni idrauliche e velocità dei movimenti nelle argille sovraconsolidate del Colle di Orvieto” at the “Incontro Annuale dei Ricercatori di Geotecnica 2004 – IARG 2004” (Trento, 7-9 July 2004)
- “Progetto degli interventi di messa in sicurezza della parete rocciosa sovrastante l’abitato di Peticara” at the “XXI Convegno Nazionale di Geotecnica” (L’Aquila, 11-14 September 2002)
- “Il comportamento del fronte di scavo della galleria: osservazioni in sito e modellazione” at the “Incontro Annuale dei Ricercatori di Geotecnica 2002 – IARG 2002” (Naples, 19-21 June 2002)
- “L’interazione terreno-rivestimento in gallerie sostenute con calcestruzzo proiettato” at the “Incontro Annuale dei Ricercatori di Geotecnica 2001 – IARG 2001” (Milan, 10-11 May 2001)

6.5 Member of Board of PhD Programs

- 2020-now Member of the Board of the Ph.D. Program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome (XXXVI, XXXVII, XXXVIII, XXXIX and XL cycles)
- 2014-2019 Member of the Board of the Ph.D. Program in Ingegneria Civile, Chimica, Ambientale e dei Materiali, University of Bologna (XXX, XXXI, XXXII, XXXIII, XXXIV and XXXV cycles)
- 2007-2012 Member of the Board of the Ph.D. Program in Geoingegneria, Georisorse e Ingegneria Geotecnica, University of Bologna (XXIII, XXIV and XXV cycles)
- 2006 Member of the Board of the Ph.D. Program in Georisorse e Geotecnologie, University of Bologna (XXII cycle)

6.6 Supervision of Post-doc Students

- Open call for a post-doc Research Grant (Assegno di Ricerca) on “Modellazione 2D e 3D (statica e dinamica) sui siti campione del patrimonio naturale e culturale nazionale”, 1 year, Sapienza University of Rome (2024-2025)
- Supervisor of the post-doc visiting researcher Denyz Aydan of the Dicle University (Turkey) on “The mechanized excavation of the Brenner Base Tunnel: analysis of rock-mass behaviour and TBM performance”, 1 year, Sapienza University of Rome (2024-2025)
- Supervisor of Edoardo Lusini, post-doc Research Grant (Assegno di Ricerca) on “Studio del comportamento non lineare degli ammassi rocciosi con metodi numerici avanzati FEM-DEM”, 1 year, Sapienza University of Rome (2024)
- Supervisor of the post-doc student Gulmira Isaev of the Kyrgyz National University, international program Erasmus Mundus Action 2 SILKROUTE (2015-2016)

6.7 Supervision of PhD Students

- Supervisor of Mahdi Dashti, PhD visiting student from the University of Miskolc (Hungary), Erasmus+ short-term PhD mobility, 1 month, Sapienza University of Rome (2024)
- Supervisor of Giada Caldarini, XXXVIII cycle, tentative title “Seismic design of tunnels”, Ph.D. program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome
- Supervisor of Chiara Spaggiari, XXXVII cycle, tentative title “3D numerical modelling of the soil-structure interaction during tunnelling in urban areas”, Ph.D. program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome

- Supervisor of Wenhui Yang, XXXV cycle, title “Impact of a large-diameter shallow twin-tunnel excavation on adjacent high speed rail bridges and related protective measures”, Ph.D. program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome (together with Prof. Dingwen Zhang of the Southeast University)
- Supervisor of Edoardo Lusini, XXXV cycle, title “Numerical modelling of rock masses interacting with dams: the case of Ridracoli”, Ph.D. program in Ingegneria Civile, Chimica, Ambientale e dei Materiali, University of Bologna
- Foreign supervisor of Han Zhang at the University of Bologna, a.a. 2018-2019, title “Breakage effect of soft rock blocks on the shear mechanical properties of soil-rock mixture”, China Scholarship Council program, China University of Geosciences
- Co-supervisor of Gaetano Falcone (supervisor Prof. Angelo Amorosi), XXIX cycle, title “Seismic microzonation by means of finite element approaches”, Ph.D. program in Risk and Environmental, Territorial and Building Development, Technical University of Bari
- Co-supervisor of Annamaria di Lernia (supervisor Prof. Angelo Amorosi), XXVII cycle, thesis “Interazione dinamica terreno-struttura mediante approcci non lineari tridimensionali agli elementi finiti”, Ph.D. program in Ingegneria Civile, Ambiente e Territorio, Edile ed in Chimica, Technical University of Bari
- Supervisor of Valentina Fargnoli, XXVII cycle, thesis “Soil-structure interaction during tunnelling in urban area: observations and 3D numerical modelling”, Ph.D. program in Ingegneria Civile, Ambientale e dei Materiali, University of Bologna
- Co-supervisor of Niccolò Coli (supervisor Prof. Paolo Berry), XXII cycle, thesis “Metodi avanzati di indagine di ammassi rocciosi a blocchi in matrice (bimrock)”, Ph.D. program in Geoingegneria, Georisorse e Ingegneria Geotecnica, University of Bologna

6.8 Research Grants

- Progetto di Ricerca on “Assessment, risk classification and interventions on tunnel linings” founded by the FABRE Consortium. 12 months. Principal Investigator of the Sapienza University of Rome unit. Euros 15000
- Progetti di Ricerca Grandi 2023 " Improving the resilience of transportation infrastructures: mitigation of the seismic vulnerability of bridges and tunnels". 36 months. Participant to the unit of Prof. Luigi Callisto, Sapienza University of Rome. Euros 47500

- Progetti di Ricerca Piccoli 2022 “Validazione di un nuovo elemento finito del codice di calcolo Abaqus per l'analisi di problemi di interazione terreno-struttura in condizioni sismiche”. 12 months. Principal Investigator of the Sapienza University of Rome unit. Euros 3000
- Progetti di Ricerca Grandi Attrezzature 2022 “BiAx (BiAxial machine for compression-shear tests)”. Participant to the unit of Prof. Domenico Liberatore, Sapienza University of Rome unit. Euros 455600
- Progetti di Ricerca Piccoli 2021 “Implementazione e Validazione di un Nuovo Elemento Finito per Analisi Dinamiche di Terreni Saturi”. 12 months. Principal Investigator of the Sapienza University of Rome unit. Euros 4000
- Progetti di Ricerca Medie Attrezzature 2021 “PAN&TILT HYPERSPECTRAL SCANNER per l'analisi di oggetti o scene di interesse indoor/outdoor in diversi ambiti di ricerca applicata: ambiente, sicurezza, salute, beni culturali, agricoltura di precisione, materiali, analisi forensi”. Participant to the unit of Prof. Silvia Serranti, Sapienza University of Rome unit. Euros 715000
- Progetto di Cooperazione Internazionale con Istituzioni Universitarie in Paesi in via di Sviluppo (PVS) 2000 for financing the 1st School “Piero Gazzola” on “Rock Mechanics for Cultural Heritage Preservation”. Principal Investigator of the Sapienza University of Rome unit. Euros 11000
- Progetti di Ricerca Grandi 2020 "Assessment of seismic damage to large infrastructural systems based on results of advanced numerical analyses". 36 months. Participant to the unit of Prof. Luigi Callisto, Sapienza University of Rome. Euros 46000
- Research agreement with PLAXIS B.V. for “Development of a Model for Masonry”. 12 months (March 2015). Participant to the Technical University of Bari unit
- PRENOLIN 2013-2015 “Improvement of Prediction of Soil Non-Linear Effects caused by Strong Seismic Motion” founded by the French National Research Agency. 24 months. Principal Investigator of the University of Bologna unit. Expenses refund
- RELUIS 2014-2016 “University Lab Net of Seismic Engineering: Urban Tunnels” founded by the Italian Civil Protection. 36 months. Participant to the Technical University of Bari unit
- RELUIS 2010-2013 “University Lab Net of Seismic Engineering: Ground Response Analysis and Lifelines” founded by the Italian Civil Protection. 36 months. Participant to the Technical University of Bari unit
- PRIN 2008 “Design of Underground Constructions in Seismic Conditions” founded by the Italian Minister of University and Research. 24 months. Principal Investigator of the University of Bologna unit. Euros 30000

- PRIN 2006 “Seismic Effects on Underground Constructions” founded by the Italian Minister of University and Research. 24 months. Principal Investigator of the University of Bologna unit. Euros 42857
- PRIN 2001 “Mechanised Excavation of Tunnels” founded by the Italian Minister of University and Research. 24 months. Participant to the Sapienza University of Rome unit
- PRIN 1999 “Tunnels in Difficult Ground Conditions” founded by the Italian Minister of University and Research. 24 months. Participant to the Sapienza University of Rome unit

6.9 Research Contracts

- Research contract with Società GPIgegneria S.r.l. on “Ottimizzazione delle procedure di calcolo per la progettazione di opere in sotterraneo, con particolare riferimento alle gallerie superficiali dell’Intervalliva Tolentino- - San Severino Marche. 18 months. Euros 30000 (June 2024)
- Research contract renewal with Quadrilatero Marche Umbria S.p.A. on “Analisi e interpretazione degli afflussi di metano e miscele esplosive in gallerie naturali” for the Mecciano and Santa Barbara tunnels. 6 months. Euros 13333 (June 2024)
- Research contract with Pini Group S.r.l. on “Attività di supporto relativa allo sviluppo di procedure di calcolo e software per la progettazione di opere in sotterraneo in campo statico e sismico”. 12 months. Euros 30000 (July 2023)
- Research contract with Quadrilatero Marche Umbria S.p.A. on “Analisi e interpretazione degli afflussi di metano e miscele esplosive in gallerie naturali” for the Mecciano and Santa Barbara tunnels. 18 months. Euros 40000 (March 2022)
- Research contract with Quadrilatero Marche Umbria S.p.A. on “Analisi e interpretazione degli afflussi di metano e miscele esplosive in gallerie naturali” for the Serre tunnel. 6 months. Euros 30000 (August 2020)
- Research contract with Quadrilatero Marche Umbria S.p.A. on “Analisi e interpretazione degli afflussi di metano e miscele esplosive in gallerie naturali” for the Croce di Calle tunnel. 18 months. Euros 45000 (August 2020)
- Research contract with Collins S.r.l. on “Modellazione degli effetti indotti sulle strutture dallo scavo con esplosivo di gallerie”. 12 months. Euros 30000 (April 2017)
- Research contract with the Emilia Romagna Region on “Esecuzione di analisi di microzonazione sismica 2D lungo tre sezioni di vallate intra-appenniniche”. 12 months. Euros 15000 (December 2015)

- Research contract with BBT-SE on “Attività di support alla ricercar finalizzata a possibili impieghi applicativi della risorsa geotermica nell’ambito dei lavori di realizzazione e dell’esercizio della Galleria di Base del Brennero”. 12 months. Euros 16000 (June 2015)
- Research contract with Astaldi S.p.A. on “Modellazione numerica avanzata dell’interazione tra gallerie urbane e strutture esistenti”. 24 months. Euros 25000 (April 2014)

6.10 Research Agreements

- Partner of the Network of the UNESCO chair on " Science and Technology for Cultural Heritage" of the Cairo University (Egypt) (from June 2023 to May 2027)
- Scientific Responsible of the Addendum 2 to the Framework Collaboration Agreement between the Department of Chemical Engineering Materials Environment of the Sapienza University of Rome and the European Organization for Nuclear Research (CERN) for the WP1 on “Advanced numerical analyses for underground infrastructures” and WP2 on “Application to CERN case study” (from March 2023)
- Scientific Responsible of the Framework Agreement between the University of Bologna and TEL SAS for research and development activities in the context of the construction works of the Moncevisio base tunnel (from December 2017 until the transfer to the Sapienza University of Rome)
- Associate Member of the UNESCO chair on "Geoenvironmental Disaster Reduction" of the Shimane University (Japan) (first term from 2018 to 2021 and second term from 2022 to 2025)
- Responsible for a research activity with ISPRA, the Geological Survey of Italy, for the National Agency for Cultural Heritage Preservation of Georgia for the conservation of the rock cultural heritage of the nation, including the monastery of Vardzia candidate for UNESCO site (since 2015)
- Scientific Responsible of the Framework Agreement between the University of Bologna and BBT-SE for research and development activities in the context of the construction works of the Brenner base tunnel (from January 2015 until the transfer to the Sapienza University of Rome)

6.11 Coordination of and Participation in National and International Research

Groups

2023-now Coordination of a National Research Group, additional members: Prof. Angelo Amorosi, Dr. Fabio Rollo and Eng. Giada Caldarini (Sapienza University of Rome), topic: numerical modelling of the seismic response of tunnels in liquefiable soils

- 2022-now Coordination of an International Research Group, additional members: Eng. Chiara Spaggiari (Sapienza University of Rome) and Prof. Alec Marshall (Nottingham University, UK), topic: Coupled Centrifuge-Numerical Model (CCNM) for the response of framed structures with infills to tunnelling
- 2022-now Coordination of an International Research Group, additional members: Eng. Chiara Spaggiari (Sapienza University of Rome) and Prof. Sinan Acikgoz (Oxford University, UK), topic: numerical modelling of the response of framed structures with infills to tunnelling, publication n. 92 in Section 10
- 2022-now Participation in an International Research Group, additional members: Eng. Wenhui Yang (Sapienza University of Rome and Southeast University) and Prof. Dingwen Zhang (Southeast University, China), topic: impact of a large-diameter shallow tunnel excavation on high speed rail bridges, publication n. 88 and 93 in Section 10
- 2021-now Coordination of a National Research Group, additional members: Dr. Edoardo Lusini and Eng. Jhaed Abul (Sapienza University of Rome, Rome, formerly University of Bologna, Bologna), Eng. Chiara Spaggiari (Sapienza University of Rome, Rome) and Eng. Stefano Fuoco (Infrarail S.p.a., Florence), topic: numerical modelling of compensation grouting during tunnelling in urban areas, publication n. 95 in Section 10
- 2020-now Participation in a National Research Group, additional members: Dr. Daniele Spizzichino and Dott. Claudio Margottini (ISPRA, Servizio Geologico d'Italia, Rome), topic: preservation of Etruscan rupestrian sites in Italy, publications n. 63, 68 and 72 in Section 10
- 2019-2023 Coordination of a National Research Group, additional members: Dr. Edoardo Lusini (Sapienza University of Rome, Rome, formerly University of Bologna, Bologna), Prof. Alessandro Graziani (University of Roma Tre, Rome), Dr. Luca Verrucci (Sapienza University of Rome, Rome) and Dr. Giulia Buffi, Eng. Andrea Gambi and Eng. Alberto Montanari (Romagna Acque Società delle Fonti S.p.A., Forlì), topic: seismic behaviour of concrete dam abutments, publications n. 2, 100, 157 and 158 in Section 10
- 2019-now Participation in an International Research Group, additional members: Dr. Daniele Spizzichino and Dott. Claudio Margottini (ISPRA, Servizio Geologico d'Italia, Rome), Dott. José Ignacio Gallego (Royal Commission for AlUla, KSA), Prof. Giovanni Crosta (Università degli Studi di Milano-Bicocca, Milan), Dr. William Frodella and Eng. Tommaso Beni (University of Florence, Florence) and Dr. Edoardo Lusini (Sapienza University of Rome, Rome, formerly University of Bologna, Bologna), topic: survey and modelling of rock slope instabilities affecting the AlUla archaeological region, publications n. 1, 62 and 67 in Section 10

- 2018-2022 Coordination of an International Research Group, additional members: Prof. Alec Marshall and Dr. Jigmin Xu (Nottingham University, UK), Prof. Matt DeJong (Berkley University, USA, formerly Cambridge University, UK), Prof. Andrea Franza (Aarhus University, Denmark, formerly Nottingham University) and Dr. Nunzio Losacco (Politecnico di Bari, Bari, formerly University of Tor Vergata, Rome), topic: centrifuge and numerical modelling of the response of framed structures to tunnelling, publications n. 5, 8, 9, 69, 91, 99 and 101 in Section 10
- 2018-2022 Participation in an International Research Group, additional members: Dr. Han Zhang, Prof. Chang Liu, Dr. Shuangshuang Wu and Dr. Xinli Hu (China University of Geosciences, China), topic: discrete element modelling of soil-rock mixtures, publications n. 7, 10, 12 and 71 in Section 10
- 2016-2021 Participation in an International Research Group, additional members: Dr. Daniele Spizzichino and Dott. Claudio Margottini (ISPRA, Servizio Geologico d'Italia, Rome) and Prof. Mikheil Elashvili (Ilia State University, Georgia), topic: preservation of rupestrian cultural heritages site in Georgia, publications n. 22 and 159 in Section 10
- 2013-2016 Coordination of a National Research Group, additional members: Prof. Angelo Amorosi (Sapienza University of Rome, Rome, formerly Politecnico di Bari, Bari) and Dr. Annamaria di Lernia and Dr. Gaetano Falcone (Politecnico di Bari, Bari), topic: numerical modelling of the seismic site response in the context of the PRENOLIN project, publications n. 21, 25 and 105 in Section 10
- 2013-2015 Coordination of a National Research Group, additional members: Prof. Angelo Amorosi (Sapienza University of Rome, Rome, formerly Politecnico di Bari, Bari) and Dr. Valentina Fagnoli (formerly University of Bologna, Bologna), topic: analysis of monitoring data during TBM-EPB excavation in coarse-grained soils and numerical modelling of soil-structure interaction problems, publications n. 29, 31, 35, 36, 58, 59, 80, 116, 118, 170, 173, 174, 178, 179 and 181 in Section 10
- 2011-2019 Participation in a National Research Group, additional members: Prof. Angelo Amorosi (Sapienza University of Rome, Rome, formerly Politecnico di Bari, Bari) and Prof. Gianmarco de Felice and Dr. Marialaura Malena (University of Roma Tre, Rome), topic: constitutive modelling of masonry structures and numerical modelling of related soil-structure interaction problems, publications n. 14, 30, 33, 76, 107, 115, 117, 120, 122, 125, 172, 182, 183 and 185 in Section 10
- 2007-2012 Coordination of a National Research Group, additional members: Prof. Angelo Amorosi (Sapienza University of Rome, Rome, formerly Politecnico di Bari, Bari) and Prof. Gaetano Elia (Politecnico di Bari, Bari), topic: seismic behaviour of tunnels in the context

of PRIN 2006 and PRIN 2008 projects, publications n. 43, 46, 82, 123, 129, 130, 133, 137, 184, 186, 188, 189, 190, 191, 193 and 194 in Section 10

- 2004-2019 Participation in a National Research Group, additional members: Eng. Paolo Tommasi (Institute for Geo-Engineering and Environmental Geology, National Research Council, Rome), Prof. Tatiana Rotonda and Dr. Luca Verrucci (Sapienza University of Rome, Rome) and Prof. Alessandro Graziani (University of Roma Tre, Rome), topic: stability of active volcano flanks, publications n. 16, 44, 45, 83, 84, 109, 131, 140, 146, 149, 195 and 200 in Section 10
- 2004-2014 Participation in a National Research Group, additional members: Eng. Paolo Tommasi (Institute for Geo-Engineering and Environmental Geology, National Research Council, Rome) and Prof. Renato Ribacchi (formerly Sapienza University of Rome, Rome), topic: hydro-mechanical coupling in the overconsolidated clayey slope of Orvieto, publications n. 32, 37, 48, 79, 134, 139, 145, 148, 187 and 201 in Section 10
- 1999-2012 Participation in a National Research Group, additional members: Prof. Renato Ribacchi (formerly Sapienza University of Rome, Rome) and Prof. Alessandro Graziani (University of Roma Tre, Rome), topic: soil-structure interaction and hydro-mechanical problems in deep tunnels, publications n. 39, 40, 41, 49, 50, 51, 52, 85, 86, 87, 127, 154, 155, 192, 204, 205 and 206 in Section 10

6.12 Editorial roles and activity as Reviewer

- Associate Editor of “Rock Mechanics and Rock Engineering”, Springer, since June 2023 (<https://www.springer.com/journal/603/editors>)
- Associate Editor of “Underground Space”, Elsevier on behalf of KeAi, since June 2023 (<https://www.sciencedirect.com/journal/underground-space/about/editorial-board>)
- Member of the Editorial Board of “Rivista Italiana di Geotecnica”, Patron, since January 2023 (<https://associazionegeotecnica.it/rig/comitato-editoriale/>)
- Member of the Editorial Board of “Rock Mechanics Bulletin”, Elsevier on behalf of KeAi, since January 2023 (<https://www.keaipublishing.com/en/journals/rock-mechanics-bulletin/editorial-board/>)
- Member of the Editorial Board of “Geomechanics and Tunnelling”, Wiley, since January 2023 (https://onlinelibrary.wiley.com/page/journal/18657389/homepage/2478_edbd.html)
- Member of the Editorial Board of “Computers and Geotechnics”, Elsevier, since March 2022 (<https://www.sciencedirect.com/journal/computers-and-geotechnics/about/editorial-board>)

- Member of the Editorial Board of “Underground Space”, Elsevier on behalf of KeAi, from December 2021 to May 2023
- Member of the Editorial Board and Scientific Committee of “Gallerie and Grandi Opere Sotterranee”, Patron, since December 2021 (<http://www.societaitalianagallerie.it/menu/rivista-gallerie/la-rivista>)
- Member of the Editorial Board of “Rock Mechanics and Rock Engineering”, Springer, from January 2017 to May 2023
- Member of the Editorial Board of “Geoenvironmental Disasters”, Springer, since April 2014 (<https://geoenvironmental-disasters.springeropen.com/about/editorial-board>)
- Member of the Editorial Board of “Tunnelling and Underground Space Technology”, Elsevier, since October 2013 (<https://www.sciencedirect.com/journal/tunnelling-and-underground-space-technology/about/editorial-board>)
- Guest Editor (together with Prof. Renato Lancellotta, Dott. Claudio Margottini and Dr. Daniele Spizzichino) of the Special Issue of “Rivista Italiana di Geotecnica” on “Civita di Bagnoregio” (to be published on the last issue of 2024)
- Guest Editor (together with Prof. Carlo Callari, Eng. Remo Grandori, Prof. Salvatore Miliziano, Prof. Daniele Peila and Eng. Andrea Pigorini) of the Special Issue of “Gallerie and Grandi Opere Sotterranee” on “Innovation in TBM tunnelling” (n. 144, December 2022; <https://patroneditore.eu/fascicoli/1249/gallerie-e-grandi-opere-sotterranee-n-144-2022>)
- Guest Editor (together with Prof. Andrea Franza and Prof. Giulia Viggiani) of the Special Issue of “Tunnelling and Underground Space technology” on “Building and infrastructure response to ground movement: bridging the gap between geotechnical and structural modelling of SSI” (published between 2021 and 2023; <https://www.sciencedirect.com/journal/tunnelling-and-underground-space-technology/special-issue/10PJP0J3BH7>)
- Reviewer for numerous international journals including Géotechnique, Rock Mechanics and Rock Engineering, Journal of Geotechnical and Geoenvironmental Engineering, Tunnelling and Underground Space Technology, International Journal of Rock Mechanics and Mining Sciences, International Journal for Numerical and Analytical Methods in Geomechanics, Soil Dynamics and Earthquake Engineering, Engineering Geology, Landslides, Computer and Geotechnics, Underground Space, Acta Geotechnica, Bulletin of Earthquake Engineering, Engineering Structures, Rivista Italiana di Geotecnica, Gallerie e Grandi Opere Sotterranee

6.13 Scientific and Organising Committees of National and International Conferences

- Member of the Scientific Committee of the Conference on “ITA & SIG 50th Anniversary Celebration: Tunnels & Underground Works over 5 decades and onwards” organised by the Società Italiana Gallerie (Milan and Genoa, 29-30 November 2024)
- Member of the Organising Committee of the “11th International Symposium of Geotechnical Aspects of Underground Construction in Soft Ground” (Macao SAR, 14-17 June 2024)
- Member of the Scientific Committee of the Conference on “Effects Induced by Tunnel Construction in Urban Areas: Prediction, Control and Mitigation” organised by the Società Italiana Gallerie (Naples, 7 June 2024)
- Member of the Scientific and Organising Committees of the Conference on “Monitoraggio in Fase di Costruzione di Nuove Gallerie e Tecniche di Risanamento di Gallerie Esistenti” organised by the Società Italiana Gallerie (Rome, 10 April 2024)
- Organiser (together with Prof. Helmut Schweiger of the Graz University, Austria) of 7 sessions of the chair T13 on “Numerical Methods in Rock Engineering” at the “15th International ISRM Congress” (Graz, 9-14 October 2023)
- Member of the Scientific Committee of the “World Tunnelling Conference - WTC 2023” (Athens, 12-18 May 2023)
- Member of the Scientific Committee of the Conference on “The role of underground infrastructures in the achievement of the U.N. sustainable development goals” organised by the Società Italiana Gallerie (Bologna, 20-21 October 2022)
- Member of the Scientific Committee of the “16th International Conference of the International Association for Computer Methods and Advances in Geomechanics - IACMAG 2022” (Turin, 30 August -1 September 2022)
- Promoter and Chair of the mini-symposium on “Building and infrastructure response to ground movements” at the “16th International Conference of the International Association for Computer Methods and Advances in Geomechanics - IACMAG 2022” (Turin, 30 August -1 September 2022)
- Member of the Scientific Committee of the “10th International Symposium on Geotechnical Aspects of Underground Construction in Soft Ground” (Cambridge, 27-29 June 2022)
- Member of the Organising Committee of the “International Conference Eurock 2021” (Turin, 20-25 September 2021)
- Member of the Organising Committee of the “VI Convegno Nazionale dei Ricercatori di Ingegneria Geotecnica - CNRIG” (Bologna, 22-23 September 2016)

- Member of the Organising Committee of the “International Symposium on Design and Practice of Geosynthetic-Reinforced Soil Structures” (Bologna, 14-16 October 2013)
- Member of the Organising Committee of the “7th International Symposium on Geotechnical Aspects of Underground Constructions in Soft Ground” (Rome, 16-18 May 2011)

6.14 Participation to Technical Committees and Working Groups

- Nominated Member of the ISSMGE Technical Committee n. 204 "Underground Construction in Soft Ground" (<https://www.issmge.org/committees/technical-committees/applications/underground-construction->) (from March 2023)
- Member of the Expert Network on the Design for Underground Structures organised by ISPRA (since October 2021). The following technical report was prepared: Athanasopoulou et al. (2022) “Prospects for designing tunnels and other underground structures in the context of the Eurocodes” (https://eurocodes.jrc.ec.europa.eu/sites/default/files/2022-11/JRC%20Report_%20Tunnels%20design%20and%20Eurocodes_2022_11_02%20%28no%20Annex%20C%29.pdf)
- Member of the Working Group 9 “Seismic Effects” and Working Group 17 “Long and Deep Tunnels” of the Società Italiana Gallerie (since November 2022)
- Member of the Scientific Committee for the preservation and promotion of the cultural landscape of Civita di Bagnoregio (since September 2021)
- Sapienza University of Rome delegate in the ITA-CET Committee on Education and Training of the International Tunnelling Association (<https://about.ita-aites.org/wg-committees/ita-cet/organization>) (from March 2021)
- Corresponding Member of the ISSMGE Technical Committee n. 204 "Underground Construction in Soft Ground" (from October 2015 to February 2023)
- Following the 2012 Emilia earthquake, she was part of the working group of the Italian Geotechnical Association for Industrial Buildings and collaborated in the drafting of the "Linee di indirizzo per interventi su edifici industriali monopiano colpiti dal terremoto della pianura padana emiliana del maggio 2012 non progettati con criteri antisismici: aspetti geotecnici" (<https://www.ingenio-web.it/files/linee-guida-capannoni.pdf>).

6.15 Bibliometric indices

- Impact factor of the journal papers calculated in the year of publication

(source from [hiips://jcr.clarivate.com/jcr/home](https://jcr.clarivate.com/jcr/home)):

Total Impact Factor: 142.32

Number of Journal Papers with Impact Factor: 47

Average Impact Factor: 3.03

n.b. 1: the impact factor of 2022 was considered for the journal papers published in 2023

n.b. 2: 1 Editorial published on “Tunnelling and Underground Space Technology” and 1 Response to Discussion published on “Computers and Geotechnics” were not considered

- Source SCOPUS (Author ID: 24484481600, information extracted on 22 May 2024)

Total documents: 106

Articles: 50, Conference Papers: 39, Book Chapters: 15, Editorials: 1, Notes: 1

Total citations: 2015

Average citations per product: 19.01

Hirsch (H) index: 23

- Source ISI WEB OF SCIENCE (search for “BOLDINI D”, information extracted on 22 May 2024)

Total publications: 77 (instead of 83, since I am not the Author of 6 publication)

Articles: 51, Proceeding Papers: 25, Editorial Materials: 2

Times cited: 1591 (instead of 1598, since 7 citations are referred to a publication of another Author)

Average per item: 20.66

Hirsch (H) index: 23

7. Service Activities

7.1 Institutional Activities

- 2024-now Member of the “Commissione Internazionalizzazione” of the Department of Chemical Engineering Materials Environment, Sapienza University of Rome
- 2023-now Member of the “Commissione di Gestione dell’Assicurazione Qualità” of the Ph.D. Program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome
- 2022-now Member of the “Commissione Internazionalizzazione” of the Ph.D. Program in Ingegneria Strutturale e Geotecnica, Sapienza University of Rome
- 2016-2019 Member of the Teaching Committee of the Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna
- 2014-2019 Member of the Panel 08a (Civil Engineering) of the “Commissione per la Valutazione della Ricerca di Ateneo”, University of Bologna
- 2013-2019 Member of the Teaching Committee of the Environmental Engineering Degree, University of Bologna
- 2007-2009 Member of the Directive Council (Giunta) of the Department of Chemical, Mining and Environmental Engineering, University of Bologna

7.2 Member of Selection Boards for University Positions

- 2024 Member of the Commission for the selection procedure of a “Ricercatore Universitario a Tempo Determinato” announced by the Department of Civil, Chemical, Environmental and Materials Engineering of the University of Bologna, Settore Scientifico Disciplinare ING-IND/28 “Ingegneria e Sicurezza degli Scavi”
- 2022 Member of the Commission for the selection procedure of a “Professore Universitario di ruolo di II fascia” announced by the Department of Environment, Land and Infrastructure Engineering of the Politecnico di Torino, Settore Scientifico Disciplinare ING-IND/28 “Ingegneria e Sicurezza degli Scavi”
- 2021 Member of the Commission for the selection procedure of a “Ricercatore Universitario a Tempo Determinato” announced by the Department of Environment, Land and Infrastructure Engineering of the Politecnico di Torino, Settore Scientifico Disciplinare ING-IND/28 “Ingegneria e Sicurezza degli Scavi”
- 2018 Member of the Selection Committee for the Ph.D. Program in Civil, Chemical, Environmental and Materials Engineering XXXIV cycle, University of Bologna
- 2021 Member of the Commission for the selection procedure of a “Ricercatore Universitario a Tempo Determinato” announced by the Department of Civil, Chemical, Environmental

and Materials Engineering of the University of Bologna, Settore Scientifico Disciplinare ING-IND/28 “Ingegneria e Sicurezza degli Scavi”

7.3 Member of Evaluation Boards

- 2024 Member of the Evaluation Commission of the Ph.D. dissertation of Lorenzo Milan, XXXVI cycle, Politecnico di Torino
- 2024 Reviewer of a research proposal submitted to the Austrian Science Fund (Autria)
- 2023 Member of the Evaluation Commission of the Ph.D. dissertation of Andrea Carigi, XXXV cycle, Politecnico di Torino
- 2023 Member of the Selection Committee of the Best Paper Award published in 2022 in the international journal Underground Space
- 2023 Reviewer of a research proposal submitted to the Israel Science Foundation (Israel)
- 2021 Member of the Evaluation Commission of the Ph.D. dissertation of Carmine Todaro, XXXIII cycle, Politecnico di Torino
- 2020-2021 Member of the Panel 08b for the 2015-2019 national research evaluation exercise (VQR 2015-2019)
- 2020 Member of the Selection Committee for the “Bando per il Settimo Concorso Nazionale Premio di Laurea” organised by the Società Italiana Gallerie
- 2020 Member of the Panel for the evaluation of the proposals presented within the “Bando di Ateneo per Iniziative di Terza Missione”, Sapienza University of Rome (2020)
- 2018 Reviewer of a research proposal submitted to the Gateway Fellowship of the Ruhr University (Germany)
- 2018 Reviewer of a research proposal submitted to the Conicyt Foundecyt (Chile)
- 2013 Reviewer of research proposals submitted to the Ministero dell’Università e della Ricerca for the “BANDO FIRB” (Italy)
- 2013 Reviewer of a research proposal submitted to the Czech Science Foundation (Czech Republic)
- 2010 Reviewer of a research proposal submitted to the National Science Foundation (USA)

8. Others

8.1 Society Memberships and Affiliations

- Affiliation at the Professional Association Ordine degli Ingegneri della Provincia di Roma since February 2003
- Chartered Engineer since 1998
- Member of the Italian Geotechnical Association, International Society for Rock Mechanics, International Society for Soil Mechanics and Geotechnical Engineering, Italian Tunnelling Society; Comitato Nazionale Italiano per le Grandi Dighe

8.2 Awards

- Research fellowship from the University of Bologna for a research period at Stanford University in 2006
- Italian Official Delegate (selected by the Italian Geotechnical Association) at the 3rd International Young Geotechnical Engineering Conference (Osaka, September 2005)
- Research fellowship from the National Research Council (Short-term mobility 2005) for performing laboratory tests at the Research Centre on Landslide of Kyoto University

8.3 Relevant Professional Activities

- 2023 Member of the “Commissione relatrice della Sezione II del Consiglio Superiore dei Lavori Pubblici” for providing a technical opinion on “Affare n. 107/2023. Progetto di impianto idroelettrico di regolazione sul bacino di Campolattaro (Bn) - Diga di Monte Alto” (n. arch. 1391B)”
- 2023 Member of the “Commissione relatrice della Sezione II del Consiglio Superiore dei Lavori Pubblici” for providing a technical opinion on “Affare n. 79/2023. Impianto PESCOPAGANO – Impianto di accumulo idroelettrico mediante pompaggio ad alta flessibilità – Vasca di Pescopagano di valle della diga Saetta (n. Arch. 290B) - Progetto”
- 2023 Member of the “Commissione relatrice della Sezione II del Consiglio Superiore dei Lavori Pubblici” for providing a technical opinion on “Affare n. 57/2023. Realizzazione di un canale scolmatore in galleria delle portate di piena che dal torrente Cormor, in Comune di Tricesimo, garantisca il trasferimento nel torrente Torre, a valle del ponte di Salt di Povoletto - Realizzazione degli interventi complementari allo scolmatore del Cormor: messa in sicurezza delle arginature del torrente Torre e del Fiume Isonzo, finalizzata alla mitigazione del rischio idraulico”

- 2021-2024 Consultant for the Brenner Base Tunnel BBT-SE for “Consulenza tecnico scientifica relativa alle Riserve 36 e 64”
- 2018 Consultant for the Prosecutor’s Office of the Vicenza Court for the “Procedimento penale 2166-201 per la riapertura della galleria Malo (Pedemontana Veneta) a seguito di incidente mortale”
- 2010 Consultant for the Prosecutor’s Office of the Bologna Court in relation to “Consulenza tecnica per il reato di cui agli artt. 449 e 426 c.p. in relazione a denunciati danni conseguenti a movimenti franosi attivati nell'area di San Benedetto Val di Sambro interessata dalle opere di realizzazione delle gallerie per percorso autostradale commissionato da Autostrade per l'Italia”

Rome, 25 June 2024

A handwritten signature in blue ink, reading "Daniele Baloban".