

MISKO CUBRINOVSKI

Professor of Geotechnical and Earthquake Engineering
University of Canterbury

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ACADEMIC QUALIFICATIONS

Ph.D. in Geotechnical Engineering, University of Tokyo, Japan (1993)
M.Sc. in Earthquake Engineering, Institute of Earthquake Engineering, Skopje, Macedonia (1989)
B.Sc. in Civil Engineering, University Cirilus and Methodius, Skopje, Macedonia (1982)

PROFESSIONAL AND ACADEMIC EXPERIENCE

Professor, University of Canterbury, Christchurch, New Zealand (2012-present)
Faculty Member, ROSE School, Institute for Advanced Study, ISUS, Pavia, Italy; International Programme for Postgraduate Studies in Earthquake Engineering (2010-present)
Leadership Team Member and Flagship Programme Leader, QuakeCoRE NZ Centre for Earthquake Resilience (Centre of Research Excellence) (2016-2021)
Associate Professor, University of Canterbury (2008-2011)
Senior Lecturer, University of Canterbury (2005-2007)
Principal Researcher, Kiso-Jiban Consultants, Tokyo, Japan (1997-2005)
Research Engineer, Technology Research Center, Taisei Corporation, Tokyo, Japan (1993-1997)
Assistant Professor, Institute of Earthquake Eng. and Eng. Seismology, Skopje, Macedonia (1989-1992)
Research Engineer, Institute of Earthquake Eng. and Eng. Seismology, Skopje, Macedonia (1983-1989)

AWARDS AND HONOURS

Otto Glogau Award, NZSEE, 2023

This New Zealand Society for Earthquake Engineering (NZSEE) award is offered annually to the authors of the best journal paper published in the NZSEE Bulletin within the previous three years.

<https://www.nzsee.org.nz/about-us/awards/otto-glogau-award/>

University of Canterbury Research Medal, University of Canterbury, 2022

The University of Canterbury Research Medal is the highest University of Canterbury research award. It is awarded annually by the University Council for research excellence demonstrated by a sustained record of research of the highest quality or by research of outstanding merit produced over a more limited timeframe.

<https://www.canterbury.ac.nz/research/about-uc-research/research-awards/research-medal>

Ishihara Lecture Award, ISSMGE, 2021

The highest international honour lecture in the field of Geotechnical Earthquake Engineering awarded by the International Society for Soil Mechanics and Geotechnical Engineering – ISSMGE; established in 2004; the 8th Ishihara Lecture was presented at PBD-IV Conference in Beijing in July 2022.

<https://sites.google.com/view/tc203/awards/ishihara-lectures>

Ralph B. Peck Award, ASCE, 2019

Premier award of the American Society of Civil Engineers (ASCE) for outstanding contributions to the geotechnical engineering profession through research; established in 1999; the 21st Ralph B. Peck Lecture was presented in Philadelphia, in March 2019. <https://www.asce.org/career-growth/awards-and-honors/ralph-b-peck-award/ralph-b-peck-award-past-award-winners>

NZGS Geomechanics Lecture Award, NZGS, 2018

The premier award of the New Zealand Geotechnical Society (NZGS); established in 1974; the 16th NZGS Geomechanics Lecture was presented throughout New Zealand in March 2019 and in Perth in April 2019. <https://www.nzgs.org/awards/nzgs-geomechanics-lecture/>

JW Ridley Geomechanics Paper Award, NZGS, 2018

For the adjudged best paper published by NZGS member(s) during a three year period; established in 2008; co-author of the 3rd NZGS Geomechanics Paper Award. <https://www.nzgs.org/awards/nzgs-geomechanics-award/>

Norman Medal, ASCE, 2016

The Norman Medal is the highest honor granted by the [American Society of Civil Engineers](https://www.asce.org) for a technical paper published in one of the 35 ASCE journals in a twelve-month period; established in 1872. <https://www.asce.org/career-growth/awards-and-honors/norman-medal/norman-medal-past-award-winners>

Outstanding Paper Award, ASCE, Journal of Performance of Constructed Facilities, 2014

Outstanding Paper Award of the Forensic Engineering Division of ASCE for a paper published in the ASCE Journal of Performance of Constructed Facilities during a calendar year. <https://ascelibrary.org/doi/10.1061/%28ASCE%29CF.1943-5509.0000841>

Outstanding Paper Award, Earthquake Spectra, EERI, 2014

Outstanding Paper Award for a paper published in Earthquake Spectra (Earthquake Engineering Research Institute), during a calendar year, judged to be outstanding contribution to earthquake hazard mitigation. <https://www.eeri.org/about-eeri/honors-awards/eeri-award-recipients>

JW Ridley Geomechanics Paper Award, NZGS, 2008

For the adjudged best paper published by NZGS member during a three year period; established in 2008; principal author of the 1st NZGS Geomechanics Paper Award. <https://www.nzgs.org/awards/nzgs-geomechanics-award/>

Ivan Skinner Award, EQC & NZSEE, 2007

Joint award of the Earthquake Commission (EQC) and New Zealand Society for Earthquake Engineering (NZSEE) for the advancement of Earthquake Engineering Research in New Zealand. <https://www.nzsee.org.nz/about-us/awards/ivan-skinner-award/>

Joint Societies Award 2007, Australian Geomechanics Society, 2007

For the most valuable conference paper as judged by the Australian Geomechanics Society (AGS) and New Zealand Geotechnical Society (NZGS), Brisbane 2007. <https://australiangeomechanics.org/awards/joint-societies-award/>

Best Research Paper Award, NZSEE, 2006.

Best paper award at the Annual Conference of New Zealand Society for Earthquake Engineering (NZSEE)

Best Paper Award, GeoEng2000, ISSMGE, ISRM & IAEG, 2000

Best paper award (out of over 700 papers) at a Millennium International Conference GeoEng2000 jointly organized by three international societies: ISSMGE, ISRM and IAEG, Melbourne, Australia, November, 2000.

Director's Award, Technology Division, Taisei Corporation, Tokyo, Japan, 1997

Annual award of the Technology Division of Taisei Corporation, Tokyo, Japan, for outstanding research contributions; awarded for the development of technology for analysis of buildings on piles in liquefiable soils.

Best Research Paper Award, Technology Research Center, Taisei Corporation, Tokyo, 1997

“Jaroslav Cherny Award” for Best BSc Thesis, Civil Engineering Dept., University Cirilus and Methodius, Skopje, Macedonia, 1983, presented in Zagreb, Croatia

Fellow, NZSEE, New Zealand Society for Earthquake Engineering, 2021

Fellow, University of Tokyo, School of Engineering, Japan, 2012

JSPS Fellowship, Japan Society for the Promotion of Science, Tokyo, Japan, 2011-2012

Erasmus Mundus Fellowship, European Commission, EUCENTRE, Italy, 2011-2012

Outstanding Technical Committee Award, ISSMGE, 2022

Awarded by the International Society for Soil Mechanics and Geotechnical Engineering – ISSMGE to the TC203 Technical Committee on Earthquake Geotechnical Engineering; TC203 Chair for the award period: Cubrinovski

PROFESSIONAL AFFILIATIONS

Member, International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), 1992 - present

Member, TC203 (Technical Committee on Earthquake Geotechnical Engineering), International Society for Soil Mechanics and Geotechnical Engineering, ISSMGE, 2005 - present

Member, New Zealand Geotechnical Society (NZGS), 2005 - present

Fellow, New Zealand Society for Earthquake Engineering (NZSEE), 2005 - present

Member, Japanese Geotechnical Society (JGS), 1992 – present

Fellow, University of Tokyo, Tokyo, Japan (2012)

Member, Macedonian Geotechnical Society (MGS), 2006 - present

Member, E-Defense Committee (MEXT, Japan), 2002-2007

PROFESSIONAL SERVICE

Chair, Technical Committee on Geotechnical Earthquake Engineering (TC203), International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE), 2019 – 2024

Principal international technical committee for geotechnical earthquake engineering with the mission to develop and disseminate knowledge and practice, and establish guidelines and technical recommendations in the field of geotechnical earthquake engineering. ISSMGE awarded TC203 the Outstanding Technical Committee Award in 2022.

Seismic Risk Working Group Member – VM1 Project (Stage 3), MBIE and Engineering New Zealand (ENZ), 2024-2026

Seismic Risk Working Group Member – VM1 Project (Stage 2), MBIE and Engineering New Zealand (ENZ), 2023-2024

Seismic Risk Working Group Member – VM1 Project (Stage 1), MBIE and Engineering New Zealand (ENZ), 2021-2023

Seismic Risk Working Group Member – Rethinking seismic risk in the building control system (options for change), MBIE and Engineering New Zealand (ENZ), 2020

Advisory Board Member, Next Generation Liquefaction (NGL Project), USA, 2019 - 2023

<https://nextgenerationliquefaction.org/about/index.html>

Leadership Team, QuakeCoRE, NZ Centre for Earthquake Resilience, 2016 – 2021

Flagship Programme Leader, QuakeCoRE NZ Centre for Earthquake Resilience, 2016 - 2021

Editorial Panel Member, MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice in NZ, 2014-2021

Editorial Board Member, Bulletin of the New Zealand Society for Earthquake Engineering, 2013 – present

Advisory Group, LIQUEFACT project, European Consortium, European Commission, 2016 - 2019

Associate Editor, Soil Dynamics and Earthquake Engineering, 2016 – 2019

Steering Committee, 7ICEGE, 7th International Conf. on Geotechnical Earthquake Engineering, Rome, 17-20 June 2019

Expert Member, Technical and Community Advisory Group, Regenerate Christchurch, Regeneration Plan for the Ōtākaro/Avon River Corridor (former Residential Red Zone), 2017 – 2018

Panel Discussion Member, 2017 NZSEE Conference, Wellington, 2017

Panel Discussion Member, 2nd Workshop on Geotechnical Earthquake Engineering “Dealing with the Consequences of Liquefaction”, University of California, San Diego, March 2017.

Co-Chair, U.S.–New Zealand–Japan International Workshop, Liquefaction-Induced Ground Movements Effects, University of California, Berkeley, California, 2–4 November 2016

Editor, Special Issue of Soil Dynamics and Earthquake Engineering, 2016

Chair, 6ICEGE, 6th International Conf. on Geotechnical Earthquake Engineering, Christchurch, 1-4 November 2015

Editor, Special Issue of Earthquake Spectra, 2014

Panel Discussion Member, 9th Int. Symposium Water Supply Technology, Yokohama, Japan, November 2012

International Advisory Committee Member, 2nd Int. Conf. on Performance-Based Design in Earthquake Geotechnical Engineering (*PBD-III*), 16-19 July 2017, Taormina, Italy, May 2012

International Advisory Committee Member, Symposium “One Year after the 2011 Great East Japan Earthquake”, JSCE, Tokyo, Japan, March 2012

Canterbury Earthquake Royal Commission: Expert witness at inquiries of the Canterbury Earthquakes Royal Commission, October 2011

Scientific Committee, 5ICEGE, 5th International Conference on Earthquake Geotechnical Engineering (5 ICEGE), Santiago, Chile, January 2011

Scientific Committee, 14th European Earthquake Engineering Conference, Ohrid, Macedonia, 30 Aug. - 3 Sept. 2010

International Advisory Committee Member, Bangladesh Geotechnical Conference 2010, Dhaka, Bangladesh, 3-4 November 2010

Editorial Board Member, Soil Dynamics and Earthquake Engineering, 2009 –

Editor, Special Issue of Bulletin of the New Zealand Society for Earthquake Engineering, 2009

Member, Theme Leadership Group, Natural Hazards Research Platform (NHRP), New Zealand, 2009

International Advisory Committee, TC4 Earthquake Geotechnical Engineering Satellite Conference, 17th International Conference on Soil Mechanics & Geotechnical Engineering, Alexandria, Egypt, October 2009

Steering Committee Member, Earthquake Engineering Research Forum, New Zealand Society for Earthquake Engineering, 2009

International Advisory Committee, IS-Tokyo 2009 International Conference on Performance-Based Geotechnical Earthquake Engineering, Tokyo, June 2009

International Advisory Committee, Geo-informatics and Zoning for Hazard Mapping Conference, Kyoto, Japan, December 2009

Organizing Committee, International Workshop on Soil-Foundation-Structure Interaction (SFSI), Auckland, New Zealand, 26-27 November 2009

Organizing Committee: ICEGE Workshop 4, Thessaloniki, Greece, 27 June 2007

Core Member of E-Defence, Soils and Foundations Research Committee, Japan (2006-2007)

Chair, NZ Geotechnical Earthquake Engineering Workshop, Christchurch, 21-23 November 2006

Editorial Board Member, Tsuchi-to-Kiso, Japanese Edition of Soils and Foundations Journal (2004-2005)

Member of Tokyo Metropolitan Highway Corp. and Highway Corp. of Japan Consortia (2003-2005)

Core-member of the DaiDaiToku and E-Defense Research Projects (2002-2005)

Member of Sakhalin to Japan Gas Pipeline Consortium (2001-2003)

Editor of Tsuchi-to-Kiso, Japanese Edition of Soils and Foundations Journal: Vol.49, No.11, 2001

Editor of Tsuchi-to-Kiso, Japanese Edition of Soils and Foundations Journal: Vol.50, No.11, 2002

Editor of Tsuchi-to-Kiso, Japanese Edition of Soils and Foundations Journal: Vol.51, No.11 2003

Member of the Advisory Committee for preparation of International Standard for Geotechnical Investigation and Testing within the European Committee for Standardization - 2002-2004

Member of High-Pressure Gas Safety Institute of Japan Consortium (2000-2003)

Member of Electric Power Civil Engineering Association of Japan research collaboration (1999-2000)

Panel Discussion Member, 11th Danube European Conf. on SMGE, Porec, Croatia, May 1998

Session Chair/Moderator (numerous international conferences and workshops – INCOMPLETE LIST): 8ICEGE, Osaka, Japan, 7-10 May 2024; *PBD-IV, Beijing, July 2022*; *GEE Webinar series, IIT Roorkee, India, December 2021*; *17th WCEE, Sendai, Japan, 7-12 September 2021*; 7ICEGE, Rome, Italy, June 2019; 2019 ANZ Conference, Perth, Australia, 1-3 April 2019; Int. Workshop on Liquefaction, Auckland, 2-3 December 2013; 2nd Int. Conf. on Performance-Based Design in Earthquake Geotechnical Engineering PBD(II), Taormina, Italy, May 2012; 5 ICEGE, Santiago, Chile, January, 2011; 9th Pacific Conference on Earthquake Engineering, April, Auckland 2011; 14th European Earthquake Engineering Conference, Ohrid, Macedonia, September, 2010; Bangladesh Geotechnical Conference 2010: Natural Hazards and Countermeasures in Geotechnical Engineering, Dhaka, November 2010; 17th ICSMGE - Satellite EGE Conference, Alexandria, Egypt, October 2009; 4th Int. Conf. on Urban Earthquake Engineering, Tokyo, March 2007; ICEGE Workshop 4, Thessaloniki, Greece, June 2007; International Workshop on Performance of Pile Foundations, University of California Davis, USA, 16-18 March 2005; U.S.-Japan Seminar on Seismic Disaster Mitigation in Urban Area, Anchorage, Alaska, USA, 26-27 June 2002.

Session Chair/Moderator (numerous national conferences and workshops - INCOMPLETE LIST): NZGS Conference, Dunedin March 2021; 2017 NZSEE Conference; 2013 NZSEE Conference; SFSI Workshop, Auckland, New Zealand, November 2009; NZSEE Conference, Christchurch, March 2009; NZGS Geotechnical Symposium 2008, NZGS, Auckland, September 2008; NZGEE Workshop, Christchurch, November 2006; 19th Int. Conf. ACMSM, Christchurch, New Zealand, 2006; also numerous clearing house meetings, workshops and events related to the 2010-2011 Canterbury Earthquakes.

ACADEMIC REVIEWS

Swiss National Science Foundation, 2023

USA National Academies of Sciences, Committee on State of the Art and Practice in the Assessment of Earthquake-Induced Soil Liquefaction and Its Consequences, 2014-2016

ANVUR, Italian National Agency for Evaluation of Universities and Research Institutes, VQR 2011-2014 Research Quality Evaluation Programme, 2016

French National Research Agency (ANR), Research Grants Council (RGC), 2013

Earthquake Commission New Zealand (EQC), Biennial Contestable Research Grants Programme proposals 2011

Qatar National Research Fund proposals, 2011

Swiss National Science Foundation proposals, 2009

Earthquake Commission New Zealand (EQC), Biennial Contestable Research Grants Programme proposals 2009

Earthquake Commission New Zealand (EQC), Non-biennial Contestable Research Grants proposals 2008

Earthquake Commission New Zealand (EQC), Biennial Contestable Research Grants Programme proposals 2007

GNS (FRST) Panel, 18-21 September 2007, Institute of Geological and Nuclear Sciences, Wellington, New Zealand

USA NSF Panel Member, NSF (NEES), 17-18 April 2007, Washington, USA

USA NSF (NEES), 2007, 2009

Journals (partial list):

Soil Dynamics and Earthquake Engineering

Geotechnique

ASCE Journal of Geotechnical and Geoenvironmental Engineering

Canadian Geotechnical Journal

Soils and Foundations

Journal of Earthquake Engineering

ASTM Geotechnical Testing Journal

Earthquake Spectra

Bulletin of New Zealand Society for Earthquake Engineering

ASCE Journal of Performance of Constructed Facilities

Earthquake Engineering and Structural Dynamics

Bulletin of Earthquake Engineering

ACADEMIC SERVICE

UNIVERSITY COURSES TAUGHT

University of Canterbury (2005 – present)

ENCN452 – Advanced Geotechnical Engineering

ENCN454 - Earthquake Geotechnical Engineering

ENEQ620 – Advanced Earthquake Geotechnical Engineering

ENCI675 – Special Topic: Soil Liquefaction

ENCI675 – Special Topic: Seismic Performance of Geosynthetic-Reinforced Soil Structures

ENCI252 – Soil Mechanics

ENCI353 – Geotechnical Engineering

ROSE School, Pavia, Italy

Geotechnical Earthquake Engineering (2012; 2014; 2017)

RESEARCH SUPERVISION

University of Canterbury

Postdoctoral Research

“Assessment and mitigation of liquefaction hazards”, post-doctoral fellow: Dr. Christopher De La Torre, 2024-present

“Nonlinear dynamic analysis of reclamations and port structures”, post-doctoral fellow: Dr. Riwaj Dhakal 2022-present

“System response effects of liquefiable deposits”, post-doctoral fellow: Dr. Nikolaos Ntritsos, 2021– present

“Engineering assessment of lateral spreading”; “Seismic Soil-Foundation-Structure-Interaction”, post-doctoral fellow:

Dr. Maxim Millen, 2019 – present

“Liquefaction assessment of Wellington reclaimed land,” post-doctoral fellow: Dr. Claudio Cappellaro, 2020 – 2022

“Geological interpretation of lateral spreading,” post-doctoral fellow: Dr. Sarah Bastin, 2016 – 2018

“Effects of partial saturation on liquefaction resistance of sandy soils,” post-doctoral fellow: Dr. Abdul Baki, 2016 - 2018

“Gel-Push Sampling of Sandy Soils,” post-doctoral fellow: Dr. Mark Stringer, 2014 – 2016

“Evaluation of Seismic Performance of Horizontal Infrastructure,” post-doctoral fellow: Dr. Mathew Hughes, 2011 - 2014

“Effects of fines on undrained behaviour of sandy soils, post-doctoral fellow: Dr. Mizanur Rahman, 2010 - 2011

PhD Thesis Research

“Enhanced liquefaction evaluation based on empirical evidence and theoretical concepts,” PhD Thesis of Aimee Rhodes, 2020 – in progress

“Influence of Pumice on the System Response of Buildings with Shallow Foundations under Seismic Loading,” PhD Thesis of Emma Gardiner, co-supervised with Mark Stringer, 2023 – in progress

“Geotechnical characterization and liquefaction potential of sand-gravel mixtures,” PhD Thesis of Abilash Pokhrel, co-supervised with Gabrielle Chiaro, 2024

“Liquefaction Assessment Methodologies for Reclaimed Land,” PhD Thesis of Riway Dhakal, 2022

“Incorporating Soil Nonlinearity into Physics-Based Ground Motion Simulation Using Site Response Analysis,” PhD Thesis research of Christopher de la Torre, co-supervised with Brendon Bradley, 2021

“Numerical Insights into Soil Liquefaction Engineering,” PhD Thesis research of Nikolaos Ntritsos, 2020

“The Influence of Fines Content, Fabric and Layered Structure on the Undrained Cyclic Behaviour of Christchurch Sandy Soils”, PhD Thesis research of Claudio Cappellaro, 2019

“Towards Performance-Based Design of Integrated Foundation-Superstructure Systems”, PhD Thesis research of Simona Giorgini, 2018

“Development of a 3D Canterbury Seismic Velocity Model and Investigation of Systematic Effects Through Hybrid Broadband Ground Motion Simulation”, PhD Thesis research of Robin Lee, co-supervised with Brendon Bradley, 2017

“Ground Motion Selection for Seismic Response Analysis”, PhD Thesis research of Karim Tarbali, co-supervised with Brendon Bradley, 2017

“Numerical Modelling of the Micromechanical Behaviour of Catastrophic Long Run-Out Rock Avalanches”, PhD Thesis research of Kim de Graaft, co-supervised with Elizabeth Bowman, 2016

“Liquefaction-Induced Lateral Spreading in the 2010-2011 Canterbury Earthquakes”, PhD Thesis research of Kelly Robinson, 2015

“The Geotechnical Characterisation of Christchurch Sands for Advanced Soil Modelling,” PhD Thesis research of Merrick Taylor, 2015

“Integrated Performance-based Design of Building-foundation Systems,” PhD Thesis research of Maxim Millen, co-supervised with Stefano Pampanin, 2015.

“Aging and creep of non-plastic silty sand,” PhD Thesis research of Muhamad Yusa, co-supervised with Elizabeth Bowman, 2015

“Dynamic Characteristics and Evaluation of Ground Response for Sands with Non-Plastic Fines”, PhD Thesis research of Jawad Arefi, 2014

“Deep soil mixing as a slope stabilization technique in Northland Allochthon residual clay soil,” PhD Thesis research of Catherine Tatarniuk, co-supervised with Elizabeth Bowman, 2014

“Probabilistic Quantification of the Effects of Soil-Shallow Foundation-Structure Interaction on Seismic Structural Response” PhD Thesis research of Masoud Moghaddasi, co-supervised with Stefano Pampanin, 2012

“Effects of Fines on the Undrained Behaviour of Christchurch Sandy Soils,” PhD Thesis research of Sean Rees, 2010

“An experimental study of the deformational and performance characteristics of foamed bitumen stabilised pavements,” PhD Thesis research of Alvaro Gonzalez, 2009

“Structure-Specific Probabilistic Seismic Risk Assessment,” PhD Thesis research of Brendon Bradley, co-supervised with Rajesh Dhakal, Gregory MacRae, and Dominic Lee, 2009

ME Thesis Research

- “Liquefaction Evaluation in Stratified Soils”, ME Thesis research of Aimee Rhodes, 2017.
- “Three dimensional formulation for the stress strain-dilatancy elasto-plastic constitutive model for sand under cyclic behaviour”, ME Thesis research of Saumyasuchi Das, co-supervised with Brendon Bradley, 2013
- “The Performance of House Foundations in the Canterbury Earthquakes”, ME Thesis research of Duncan Henderson, 2013
- “Impacts of liquefaction and lateral spreading on bridge pile foundations from the February 22nd 2011 Christchurch earthquake,” ME Thesis research of Anna Winkley, 2013
- “An investigation into the seismic performance and progressive failure mechanism of model geosynthetic reinforced soil walls”, ME Thesis research of Kelvin Loh, co-supervised with Elizabeth Bowman, 2013
- “Stopbank Performance during the 2010 - 2011 Canterbury Earthquake Sequence,” ME Thesis research of Sophie Bainbridge, 2013
- “An investigation into the deformation behaviour of geosynthetic reinforced soil walls under seismic loading,” ME Thesis research of Perry Jackson, co-supervised with Elizabeth Bowman, 2010
- “Behaviour of piles in liquefiable deposits during strong earthquakes,” ME Thesis research of Hayden Bowen, 2007

Institute for Advanced Study (ISUS), Pavia (Italy)

PhD Thesis Research

- “Enhanced effective stress analysis of liquefaction problems,” PhD Thesis of Jimena Yanina Martin, 2022

ME Thesis Research

- “Comparative Liquefaction Assessment of Case Histories from Emilia Romagna (Italy) and Christchurch (New Zealand),” ME Thesis Research of Carla Casas, 2016

University of California, Berkeley (USA)

PhD Thesis Research

- “Liquefaction Ejecta-Induced Building Movement and Cyclic Response of Silty Soils”, PhD Thesis Research of Zorana Mijic, co-supervised with Jonathan Bray, UC Berkeley, 2021.
- “Fine-Grained Soil Liquefaction Effects in Christchurch, New Zealand”, PhD Thesis Research of Christine Beyzaei co-supervised with Jonathan Bray, UC Berkeley, 2018.
- “Response of Liquefiable Sites in the Central Business District of Christchurch, New Zealand,” PhD Thesis Research of Christopher Markham co-supervised with Jonathan Bray, UC Berkeley, 2014.
- “Seismic performance of buildings subjected to soil liquefaction, PhD Thesis Research of Joshua Zupan co-supervised with Jonathan Bray, UC Berkeley, 2014.

University of Cambridge (UK)

PhD Thesis Research

- “Centrifuge study on pile group effects in liquefying soils,” PhD Thesis Research of Jennifer Haskell co-supervised with Gopal Madabhushi, University of Cambridge, 2013.

Science University of Tokyo (Japan)

ME Thesis Research

- “3-D numerical simulation of shake-table tests on piles subjected to lateral spreading,” ME Thesis Research of Toshiyuki Kamata co-supervised with Kenji Ishihara, 2004
- “3-D effective stress analysis: application,” (in Japanese), ME Thesis Research of Ichiro Takagishi supervised by Kenji Ishihara, 2003
- “Effects of liquefaction on seismic response of a storage tank on pile foundations,” (in Japanese), ME Thesis Research of Takahiro Kijima co-supervised with Kenji Ishihara, 2002
- “Evaluation of countermeasures against liquefaction by effective stress analysis,” (in Japanese), ME Thesis Research of Toshiyuki Shibayama co-supervised with Kenji Ishihara, 2001

- “Behaviour of piles subjected to lateral spreading of liquefied soils,” (in Japanese), ME Thesis Research of Junichi Hyodo co-supervised with Kenji Ishihara, 2000
- “Simulation of effects of ground improvement by effective stress analysis,” (in Japanese), ME Thesis Research of Kenji Furukawazono co-supervised with Kenji Ishihara, 1999
- “Effective stress analysis of large scale shaking tests on pile foundations,” (in Japanese), ME Thesis Research of Masayuki Hatano co-supervised with Kenji Ishihara, 1998

UNIVERSITY ADMINISTRATION

- Department Strategic Planning, Department of Civil and Natural Resources Engineering, 2023 – present
- Leadership Team, Department of Civil and Natural Resources Engineering, 2022 – 2024
- Acting Director of Postgraduate Studies, Department of Civil and Natural Resources Engineering, 2022
- Leadership Team, QuakeCoRE New Zealand Centre for Earthquake Resilience (Centre of Research Excellence), 2016 – 2021
- Flagship Programme Leader, QuakeCoRE (Centre for Research Excellence), New Zealand Centre for Earthquake Resilience, 2016 – present
- Chair, Research Committee, Department of Civil and Natural Resources Engineering (CNRE), 2015 - 2018
- Chair, Scholarship Sub-committee, QuakeCoRE (Centre for Research Excellence), New Zealand Centre for Earthquake Resilience, 2017
- Chair, Scholarship Sub-committee, QuakeCoRE (Centre for Research Excellence), New Zealand Centre for Earthquake Resilience, 2016
- Chairperson of Academic Selection Panels, Department of Civil and Natural Resources Engineering, (Over ten panels), 2006 - 2015
- University of Canterbury Science and Engineering Representative at NSC (Natural Science Challenge) and NHRP (Natural Hazards Research Platform) formative Workshops, 2014
- Establishment Board Member, University of Canterbury Quake Centre (UCQC), 2012 – 2013
- Mentor, UC Mentoring Programme, University of Canterbury, 2013 – present
- Deputy HOD (Head of Department), Department of Civil and Natural Resources Engineering (CNRE), 2010
- Curriculum Review Committee, Department of Civil and Natural Resources Engineering (CNRE), 2009 - 2011
- University of Canterbury Scholarships Subcommittee 2010 - 2011
- University of Canterbury Postgraduate Committee, 2009 – 2011
- Chair, Postgraduate Committee, College of Engineering and Forestry 2009 – 2011
- Advisory Board Member, Department of Civil and Natural Resources Engineering, 2006 - 2010
- Department Management Team (Executive Committee), Department of Civil and Natural Resources Engineering (CNRE), 2006 – 2010
- College of Engineering Postgraduate Committee, 2006 - 2009
- Director of Postgraduate Studies, Department of Civil and Natural Resources Engineering (CNRE), 2006 – 2009
- Academic Promotions Committee, Department of Civil and Natural Resources Engineering, 2006; 2008; 2010
- Academic Staffing Committee, Department of Civil and Natural Resources Engineering, 2006 - 2007

CONSULTING EXPERIENCE

- ENZ & MBIE – Ministry of Business, Innovation and Employment; Seismic Risk Work Programme (SRWP), Working Group Member – VM1 Project (Stage 3), 2025 – 2026
- ENZ & MBIE – Ministry of Business, Innovation and Employment; Seismic Risk Work Programme (SRWP), Working Group Member – VM1 Project (Stage 2), 2023 – 2024
- ENZ & MBIE – Ministry of Business, Innovation and Employment; Seismic Risk Work Programme (SRWP), Working Group Member – VM1 Project (Stage 1), 2021 - 2022
- WSP, Christchurch - Te Awaparahi Bay - New Wharf Development, LPC, Lyttelton, 2021
- Ministry of Education – CGW Consulting Engineers, Geotechnical characterization of foundations soils of Otumoetai College for seismic design and assessment, 2020 - 2021
- ENZ & MBIE – Ministry of Business, Innovation and Employment; Seismic Risk Working Group (SRWG) Member – Rethinking seismic risk in the building control system: options for change, 2020

ENZ & MBIE – Ministry of Business, Innovation and Employment: Lead Author and Editorial Panel Member on the development of series of professional guidelines for the geotechnical earthquake engineering practice in New Zealand, Revision 1, 2019 - 2021.

WSP Opus & CentrePort Ltd., Wellington - CentrePort Ground Resilience Project, Chairperson of international review panel, 2018 - 2021

Port Nelson - Seismic Resilience of Port Nelson, 2019

BECA, Auckland - Stability assessment for the reclamation at Wynyard Quarter, 2018

CentrePort Ltd, Wellington – CentrePort recovery after the 2016 Kaikoura Earthquake, 2017

NZTA (New Zealand Transport Agency) - Opus, Analysis of piled bridges at sites prone to liquefaction and lateral spreading in New Zealand, 2015-2018.

Coffey – LPC - Lyttelton Port of Christchurch: Te Awaparahi Bay Stage 1 Land Reclamation, 2017.

LPC - Lyttelton Port of Christchurch, Oil Berth Life Extension, 2017.

EQC – New Zealand Earthquake Commission: Insurer finalisation settlement challenge preparation peer review, 2017.

LPC – Lyttelton Port of Christchurch: Serving as a member of a two-person peer review committee that reviews concept design proposals for LPC reclamations and structures, 2015-2016.

MBIE – Ministry of Business, Innovation and Employment: Serving as a member of a six-person editorial panel that develops and reviews series of professional guidelines, Revision 0, 2015 - 2017.

CCC – Christchurch City Council: Providing technical guidance and advice regarding earthquake-induced damage to CCC assets (Central Library Building, Old Buss Exchange Building, Manchester St Carpark, Lichfield St Carpark), 2015.

Coffey: LPC – Lyttelton Port of Christchurch: Peer review of seismic evaluation of reclamations and wharves, 2015.

MBIE – Ministry of Business, Innovation and Employment: Serving as a member of a 4-member international review panel on Site Ground Improvement guidance, 2014.

EQC - New Zealand Earthquake Commission: Member of an International Expert Panel that reviews the Increased Liquefaction Vulnerability Assessment Methodology and series of other documents (studies) for residential land damage assessment in Christchurch, 2012 - 2016

EQC - New Zealand Earthquake Commission: Member of an International Expert Panel that reviews the programme and results of Ground Improvement Trials, 2013 - 2014

MBIE – Ministry of Business, Innovation and Employment: Serving as a member of a 3-member international review panel on Repairing and Rebuilding Houses by the Canterbury Earthquake guidance, 2012.

MBIE – Ministry of Business, Innovation and Employment: Serving as a member of a 3-member international review panel providing technical advice and review of guidance documents for recovery of residential areas following the 2010-2011 Canterbury Earthquakes, 2011 - 2016.

Canterbury Earthquake Royal Commission: Expert witness at inquiries of the Canterbury Earthquakes Royal Commission, October 2011.

Cubrinovski, M., & McCahon, I. (2011). *Foundations on Deep Alluvial Soils*. Expert Report commissioned by the Canterbury Earthquakes Royal Commission, 2011.

OPUS International Consultants: Serving as a member of a two-person peer review committee that reviews damage assessment of LPC wharves inflicted by the 2010 – 2011 Canterbury Earthquakes (2011-2012)

McManus Geotech Ltd.: Peer review of seismic assessment of Kapit Coffey Dam, Papua New Guinea, 2009.

McManus Geotech Ltd.; Golder Associates: Peer review of seismic assessment of Matahorea Gorge Bridge, 2009.

OPUS International Consultants: Serving as a member of a two-person peer review committee that reviews seismic evaluation and design of Lyttelton Port of Christchurch (LPC) wharves (2008 – 2010)

GNS: Peer review of seismic parameters and site response analyses for Eden Park site, Auckland, 2008

Tonkin&Taylor: Peer review of seismic assessment of Tauranga Harbour Link, 2008

Tonkin&Taylor: Christchurch City Council: Peer review of seismic assessment of new design for Fitzgerald Bridge Christchurch, 2007

Kiso-Jiban Consultants Ltd, Japan, Seismic performance of Kitan-Kaikyou cable-stay bridge, 2004.

Kiso-Jiban Consultants Co. Ltd, Japan, Evaluation of the seismic response of Ohgishima Tank, 2004.

Japan Sakhalin pipeline Co. Ltd., Sakhalin to Japan Gas Pipeline: Assessment of liquefaction, flow potential and lateral spreading for the offshore route of the pipeline, 2003.

Kiso-Jiban consultants Ltd, Japan, Seismic analysis of a highway bridge-pier in the Metropolitan area of Tokyo, 2002.

Central Power Corporation Japan, Traffic-induced cable creepage in buried ducts: 2002.

Kiso-Jiban Consultants Co. Ltd, Japan, Assessment of design response spectra for LNG Tank in Dahej (India), 2001.

Japan Electric Power Civil Engineering Association, Full-scale tests on piles subjected to lateral spreading of liquefied soils, 2000.

Universal Studios Japan, Evaluation of liquefaction induced settlement, 2000.

Nuclear Power Corporation Japan, Seismic evaluation of a potential Nuclear Power Plant site, 1997.

Taisei Corporation, Effective stress analysis of an industrial site in Wakayama, 1996.

Taisei Corporation, Seismic response analyses of soft soil site in Machiya, Tokyo, 1996.

Chiyoda Engineering Center, Evaluation of countermeasures against liquefaction on pile foundations of base-isolated building, 1996.

Taisei Corporation, Kawasaki Oil Tank: Liquefaction assessment, 1996.

Taisei Corporation, Evaluation of building on pile foundations which was damaged in the 1995 Kobe earthquake, 1995.

Kawasaki H.I. Kobe Factory, Evaluation of safety of pile foundations in liquefiable soil, 1995.

Taisei Corporation, Evaluation of liquefaction countermeasures for A. B. Research Center, 1995.

Nuclear Power Plant Krsko, Re-evaluation of seismic design parameters, 1989.

IZIIS, Seismic microzonation of Tuzla City, 1989.

IZIIS, Buried structures under explosion excitation: SSI, 1988.

IZIIS, Seismic analysis of Melnicki Bridge Pier, 1988.

Nuclear Power Plant Prevlaka, Bid evaluation, 1987.

IZIIS, Building Complex Ohridati: Seismic hazard and seismic design parameters, 1986.

Nuclear Power Plant Belene, Seismic design parameters, 1986.

Nuclear Power Plant Prevlaka, Feasibility of pile foundations for NPP Prevlaka, 1985.

Nuclear Power Plant Prevlaka, Dynamic analysis of foundation of reactor building, 1985.

Nuclear Power Plant Prevlaka, Dynamic analysis of foundation of water cooling tower, 1985

Nuclear Power Plant Prevlaka, Dynamic analysis of foundation of turbine building, 1985.

Nuclear Power Plant Prevlaka, Definition of seismic parameters and liquefaction potential, 1984.

IZIIS, Seismic analysis of Water-Power Plant Fala, 1983

AWARD, KEYNOTE AND INVITED LECTURE PRESENTATIONS

- “Dynamic interactions and system effects in simplified liquefaction assessment” Keynote Lecture, 8th International Conference on Geotechnical Earthquake Engineering, 8ICEGE, Osaka, 8 May 2024
- “Liquefaction challenges: From Element Response to System Effects in Liquefying Deposits” CalGeo Annual Conference, Hawaii, 3-5 April 2024
- NZGS Webinar on Module 3 – Guidelines for geotechnical engineering practice in New Zealand, 27 June 2023
- “System Effects on Liquefaction response and Manifestation” 37th Annual Spring Seminar, Seattle, 13 May 2023
- “Engineering evaluation of liquefaction problems”, Keynote Lecture, 9th Indian Young Geotechnical Engineering Conference, MIT, Aurangabad, India, 22 March 2023 (via video link)
- “Engineering evaluation of liquefaction problems”, Keynote Lecture, 17th Symposium on Earthquake Engineering, IIT Roorkee, India, 16 November 2022 (via video link)
- “Holistic evaluation of liquefaction problems”, 8th Ishihara Lecture, Int. Conf. on Performance-based design in earthquake geotechnical engineering, Beijing, China, 15-17 July 2022 (via video link)
- NZGS Webinar on Module 1 – Guidelines for geotechnical engineering practice in New Zealand, 7 July 2022
- “Mechanics-based evaluation of liquefaction”, Inaugural Lecture, 1st Webinar Series on Geotechnical Earthquake Engineering, IIT Roorkee, India, 8 December 2021 (via video link)
- “Identification and Mitigation of Seismic Hazards from Inherited Vulnerabilities”, Invited Lecture, 17th WCEE (World Conference on Earthquake Engineering), 27 September – 2 October 2021, Sendai, Japan (via video link)
- “Evaluation of the seismic performance of buildings and infrastructure”, Invited Lecture, 2021 NZSEE Conference, 14-16 April 2021, Christchurch
- “Earthquake geotechnical engineering practice: Key revision of Guidelines”, Invited Lecture, NZGS Symposium 2021, 24-26 March 2021, Dunedin
- “Key Observations and Findings on Liquefaction Impacts in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Keynote Lecture, The International Forum for the 100th Anniversary of The Great Haiyuan Earthquake in 1920 Ningxia University, China, 23 October 2020 (via video link)
- “Key Observations and Findings on Liquefaction Impacts in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, Australian geomechanics Society – Victoria Chapter Seminar, 28 October 2020 (via video link)
- “Engineering evaluation of liquefaction problems”, Invited Lecture, 2020 QuakeCoRE Seminar, 7 August 2020, Christchurch
- “Liquefaction of Wellington Port Reclamations in the 2016 Kaikoura (NZ) Earthquake”, Invited Lecture, ICONHIC 2019, Chania (Crete), 23-26 June 2019
- “Key aspects in the engineering assessment of soil liquefaction”, Keynote Lecture, 7th International Conference on Geotechnical Earthquake Engineering, 7ICEGE, Rome, 17-19 June 2019
- “Some important considerations in the engineering assessment of soil liquefaction”, Keynote Lecture, 2019 NZGS Geomechanics Lecture, 2019 ANZ Conference, 1-3 April 2019, Perth, Australia.
- “Observations and findings from Christchurch case histories on soil liquefaction”, Keynote Lecture, 2019 Ralph B. Peck Lecture, 2019 Geo-Congress, 25-27 March 2019, Philadelphia, USA.
- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 14 March 2019, Christchurch.
- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 12 March 2019, Nelson.
- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 11 March 2019, Queenstown.
- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 7 March 2019, Wellington.
- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 6 March 2019, Hamilton.

- “Some important considerations in the engineering assessment of soil liquefaction”, 2019 NZGS Geomechanics Lecture, 4 March 2019, Auckland.
- “Liquefaction of reclaimed land at Wellington Port in the 2016 Kaikoura Earthquake”, Invited Lecture, FEUP, University of Porto, 18 October 2018, Porto, Portugal.
- “Liquefaction of reclaimed land at Wellington Port in the 2016 Kaikoura Earthquake”, Invited Lecture, University of Naples, 14 September 2018, Naples, Italy.
- “Key observations and findings on impacts of liquefaction in the 2010-2011 Christchurch earthquakes,” Keynote Lecture, ZMGM17, 17th National Conf. Turkish Geotechnical Society, 26–28 September 2018, Istanbul, Turkey.
- “Liquefaction of reclaimed land at Wellington Port in the 2016 Kaikoura Earthquake”, Theme Lecture, GEESD V Conference, 10-13 June 2018, Austin, Texas, USA.
- “Liquefaction hazards from “inherited vulnerabilities”, Keynote Lecture, 16th Danube-European Conference, 7-9 June 2018, Skopje, Macedonia.
- “System Response of Liquefiable Deposits,” Keynote Lecture, 50th NZSEE Conference “From Inangahua to Kaikoura and Beyond”, 13-15 April 2018, Auckland.
- “Liquefaction of CentrePort Reclamations: Implications for Engineering Assessment,” Invited Lecture, 20th NZGS Symposium, Napier, 24-26 November 2017.
- “Identification, Assessment and Mitigation of Liquefaction Hazards”, MBIE/NZGS Module Workshop: Guidelines for Geotechnical Earthquake Engineering Practice in New Zealand, Napier, 23 November 2017.
- “System Response of Liquefiable Soils”, Invited Lecture, *LIQUEFACT Project Annual Meeting*, 3 – 6 October 2017, Naples, Italy.
- “Lessons from the 2016 Kaikoura Earthquake in New Zealand”, Invited Lecture, TC203 Workshop on “Lessons and findings from studies of recent large earthquakes,” 19th Int. Conference on Soil Mechanics and Geotechnical Engineering, Seoul, Korea, 17-22 September 2017.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Hamilton, 8 September 2017.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Auckland, 7 September 2017.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Christchurch, 1 September 2017.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Wellington, 29 August 2017.
- “Earthquake Impacts on Critical Infrastructure: The Wellington Port Case Study” Invited Lecture, Plenary Session 4: What Does the Kaikoura Earthquake Mean for Future Policy and Practice in New Zealand and the Role of Research?, *QuakeCoRE Annual Meeting 2017*, 4-6 September 2017, Wairakei.
- “System Response of Liquefiable Soils”, Keynote Lecture, 3rd Int. Conf. on Performance-Based Design in Earthquake Geotechnical Engineering (PBD-III), 16-19 July 2017, Vancouver, Canada.
- “Seismic Deformation of GRS Walls Observed in 1-g Shake Table Tests”, Invited Lecture ACIGS Workshop & Geosynthetic Reinforcement in Highways Seminar, Christchurch, 17 May 2017.
- “Seismic Deformation of GRS Walls Observed in 1-g Shake Table Tests”, Invited Lecture ACIGS Workshop & Geosynthetic Reinforcement in Highways Seminar, Auckland, 15 May 2017.
- “Geotechnical Perspectives for Damage Control in Structures”, Invited Lecture at Special Plenary Session on Design for Damage Control in Structures, Annual NZSEE Conference, Wellington, 28 April 2017.
- “Liquefaction Characteristics of Sandy Soils”, Invited Lecture at the 2nd Workshop on Geotechnical Earthquake Engineering “Dealing with the Consequences of Liquefaction”, University of California, San Diego, 30 March 2017.
- “Lateral Spreading: Evidence and Interpretation from the 2010-2011 Christchurch Earthquakes”, Invited Lecture, GeoSystems Wednesday’s Lecture Series, University of California, Berkeley, 9 November 2016.
- “Liquefaction-Induced Lateral Spreading”, Invited Lecture, US – New Zealand – Japan International Workshop “Liquefaction-Induced Ground Movements Effects” University of California, Berkeley, 3 November 2016.
- “Assessment of Liquefaction and Lateral Spreading: A Critical Review of Conventional Models Based on Christchurch Observations”, Invited Lecture, Studio Geotecnico Italiano (SGI), Milan, 6 October 2016.

- “Impacts of Liquefaction in the 2010-2011 Christchurch Earthquakes and Rehabilitation Projects”, Guest Lecture, “Assessment and Mitigation of Liquefaction Potential across Europe” LIQUEFACT Workshop, Bologna, 3 October 2016.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Auckland, 19 September 2016.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Auckland, 20 September 2016.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Christchurch, 26 September 2016.
- “Liquefaction Assessment in the Engineering Practice”, Lead Presenter, IPENZ-MBIE-NZGS Seminar on Geotechnical Earthquake Engineering Guidelines for New Zealand Practice, Wellington, 28 September 2016.
- “Liquefaction Assessment”, Invited Speaker, 5th International Conference on Geotechnical and Geophysical Site Characterization (*ISC’5*), Gold Coast, 8 September 2016.
- “Fostering Internationally Competitive University of Tokyo Students” Invited Lecture as Fellow of the University of Tokyo, Symposium: “What is the Role of the International Students at the Department of Civil Engineering, The University of Tokyo? Past, Present and Future”, University of Tokyo, Tokyo, 24 November 2016.
- “Observations from Christchurch Earthquakes: Liquefaction, Lateral Spreading and Performance of Deep Foundations”, Invited Lecture, Piling & Deep Foundations New Zealand, 7 June 2016, Auckland
- “Interpretation and Evaluation of Lateral Spreading”, Invited Lecture, NZ – Japan Liquefaction Workshop, Auckland, 16 March 2016.
- “Observations from Christchurch Earthquakes: Liquefaction, Lateral Spreading and Performance of Deep Foundations”, Invited Lecture, Piling & Deep Foundations Australasia, Sydney, 24 November 2015.
- “Lateral spreading: evidence and interpretation from the 2010-2011 Christchurch earthquakes”, Keynote Lecture, 6ICEGE, 6th International Conference on Geotechnical Earthquake Engineering, Christchurch, 4 November 2015.
- “What have we really learned about the vulnerability of horizontal infrastructure to liquefaction?” Invited Lecture, 2015 National Lifelines Forum, Christchurch, 22 October 2015.
- “Impacts of Liquefaction in the 2010-2011 Christchurch Earthquakes”, Invited Lecture, ISSMGE Webinar Series, International Society for Soil Mechanics and Geotechnical Engineering, 15 April 2015.
- “Complexities and Peculiarities of lateral Spreading: Christchurch Case Studies”, Invited Lecture, University of Pavia, ROSE School Seminar, Pavia, 28 November 2014
- “Seismic Effective Stress Analysis: Modelling and Application”, Invited Lecture, PLAXIS Seminar, Wellington, 10 October 2014.
- “Lateral Spreading-Induced Damage to Short-Span Bridges in Christchurch”, Invited Lecture, Special Session, 10th U.S. National Conference on Earthquake Engineering – 10NCEE, Anchorage, Alaska, 21-25 July 2014
- “Case Histories Data Collection”, Invited Lecture, NRC Workshop on the State of the Art and Practice in Earthquake Induced Liquefaction Assessment, Tempe, Arizona, 10-11 March 2014
- “Triggering of Liquefaction”, Invited Lecture, NRC Workshop on the State of the Art and Practice in Earthquake Induced Liquefaction Assessment, Tempe, Arizona, 10-11 March 2014
- “2010-2011 Christchurch Earthquakes: Geotechnical Studies at UC”, Invited Lecture, SCiRT, Christchurch, 27 January 2014
- “Effects of Lateral Spreading on Bridges in the 2010-2011 Christchurch Earthquakes”, Invited Lecture, New Zealand – Japan Workshop, Auckland, 2 – 3 December 2013
- “Liquefaction during Earthquakes”, Invited Lecture, NZGS Workshop, “Seismic Assessment and Design of Foundations and Buried Infrastructure”, Queenstown, 20 November 2013
- “Seismic Effective Stress Analysis: Modelling and Application”, Invited Lecture, PLAXIS Seminar, Wellington, 11 October 2013
- “Effects of alluvial deposits on the ground motions and damage in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, JAEE Int. Workshop ESG, Tokyo, 24 September 2013
- “Liquefaction-Induced Damage in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, Special Session, 18th International Conference ISSMGE, Paris, 2 – 6 September 2013

“Liquefaction Characteristics in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, ICEGE, Istanbul, June 2013

“Liquefaction-induced Damage in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, 7th Int. Conf. on Case Histories in Geotechnical Engineering, Chicago, 4 May 2013,

“PEER TSRP Liquefaction Workshop”, Invited Lecture, UC Berkeley, Berkeley, 24 April 2013

“Impacts of Liquefaction on the Potable Water System of Christchurch in the 2010-2011 Canterbury Earthquakes”, Invited Lecture, 9th Int. Symposium on Water Supply Technology, Yokohama, 20-22 November 2012

“Effects of liquefaction on bridge foundations: key issues in analysis and design”, Invited Lecture, NZ Bridges 2012, Wellington, 29-30 October 2012

“Impacts of Liquefaction on Pipe Networks and Bridges in the Christchurch Earthquakes, Invited Lecture, UC Lifelines Week, Christchurch, 13 July 2012

“The 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, Special Session, 2nd Int. Conf. on Performance-based Design in Earthquake Geotechnical Engineering (II PBD). Taormina, Italy, 28 May 2012.

“Performance of Buildings and Infrastructure in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, ROSE Seminar, Pavia, May 2012

“Liquefaction Impacts on Buildings and Infrastructure in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, JSCE Symposium on the 2011 Great East Japan Earthquake, Tokyo, 5-6 March 2012

“Liquefaction Impacts in Residential Areas in the 2010-2011 Christchurch (New Zealand) Earthquakes”, Invited Lecture, Joint symposium of six professional societies on the 2011 Great East Japan Earthquake, Tokyo, 3-4 March 2012

“Seismic and Geotechnical Considerations for CBD Foundations”, Invited Lecture, Peterborough, CCC, Christchurch, 13 February 2012,

“Liquefaction Resistance Index: LRI Development & Implications for Post-Earthquake Water and Wastewater Design”, Invited Lecture, SCiRT, Christchurch, 2 February 2012

“Geotechnical Aspects of the 2010-2011 Christchurch Earthquakes: Impacts on Buildings and Infrastructure”, Invited Lecture, Taipei, 2 December 2011

“Impacts of the 2010-2011 Canterbury Earthquakes on Buildings and Infrastructure”, Invited Lecture, ROSE School, Pavia, 22 September 2011

“The Effects of the 2010-2011 Canterbury Earthquakes”, Invited Lecture, Institute Of Earthquake Engineering and Engineering Seismology (IZIIS), Skopje, 9 September 2011

“The 2010-2011 Canterbury Earthquake Sequence: Soil Liquefaction”, Public Lecture, University of Canterbury, 3 August 2011

“Ground Damage and Liquefaction”, Invited Lecture, Canterbury Technical Clearing House, Christchurch, 15 June 2011

“Liquefaction impacts on pipe networks and CBD”, Invited Lecture, Canterbury Earthquakes Science and Engineering Briefing, Christchurch, 30 May 2011

“The Mw 6.3 Christchurch Earthquake on February 22, 2011: Seismological Framework and Geotechnical Aspects”, Invited Lecture, Special Session on the 2011 Christchurch and Tohoku Earthquakes, Pavia, 19 May 2011

“CBD Foundation Conditions”, Invited Lecture, Canterbury Structural Group, Christchurch, 20 April 2011

“Christchurch Earthquakes Summary: Ground Performance”, Invited Lecture, Special Session, 9th Pacific Conference on Earthquake Engineering, Auckland, 14-16 April 2011

“Christchurch Earthquakes Forum: Understanding the Natural Environment”, Invited Lecture, 9th Pacific Conference on Earthquake Engineering, Auckland, 14-16 April 2011

EERI-PEER Reconnaissance Briefing on the Christchurch Earthquake: Liquefaction Impacts, UC Berkeley, California, 6 April 2011

“Seismic Effective Stress Analysis: Modelling and Application”, Theme Lecture, 5ICEGE, 5th International Conference on Geotechnical Earthquake Engineering, Santiago, 10-13 January 2011

- “2010 Darfield (Canterbury) Earthquake: Impacts of Liquefaction and Lateral Spreading”, Invited Lecture, Special Session, 5ICEGE, 5th International Conference on Geotechnical Earthquake Engineering, Santiago, 10-13 January 2011
- “2010 Darfield (Canterbury) Earthquake: Impacts of Liquefaction and Lateral Spreading”, Invited Lecture, Bangladesh Geotechnical Conference 2010, Dhaka, Bangladesh, 3-4 November 2010
- “Effects of Non-plastic Fines on Liquefaction Resistance of Sandy Soils”, Theme Lecture, 14th European Conf. on Earthquake Engineering, 2010 Ohrid, Macedonia, 30 August – 3 September 2010
- “Soil-pile interaction in liquefying soils: modelling issues”, Invited Lecture, International Workshop on Soil-Foundation-Structure Interaction, Auckland, 26-27 November 2009
- “Analysis of piles in liquefying soils by the pseudo-static approach”, Invited Lecture, TC4 of ISSMGE Earthquake Geotechnical Engineering Satellite Conference, Alexandria 2-3, October 2009
- “Effects of Fines on Liquefaction Resistance of Sandy Soils”, Invited Lecture, Natural Hazard Research Centre, Christchurch, August 2009
- “Evaluation of Seismic Performance of Geotechnical Structures”, Theme Lecture, IS-Tokyo 2009, 1st Int. Conf. on Performance-based Design in Earthquake Geotechnical Engineering (II PBD), Tsukuba, 15 - 18 June 2009
- “Assessment of Seismic Performance of Piles in Liquefying Soils”, Invited Lecture, University of Tokyo, Tokyo, November 2008
- “Assessment of Seismic Performance of Piles in Liquefying Soils”, Invited Lecture, University of California, San Diego, October 2008
- “Assessment of Seismic Performance of Piles in Liquefying Soils”, Invited Lecture, Vancouver Geotechnical Society, Vancouver, October 2008
- “Effects of Fines on the Undrained Behaviour of Sandy Soils”, Invited Lecture, University of British Columbia, Vancouver, October 2008
- “Assessment of Seismic Performance of Pile Foundations in Liquefying Soils”, Invited Lecture, University of Sheffield, Sheffield, October 2008
- “Assessment of Seismic Performance of Soil-Structure Systems”, Keynote Lecture, NZGS Geotechnical Symposium 2008 “Soil-Structure Interaction – From Rules of Thumb to Reality” Auckland, 3-5 September 2008
- “Assessment of Liquefaction and its Consequences”, Presenter, NZSEE Seminar, Auckland, August 2008
- “Assessment of Liquefaction and its Consequences”, Presenter, NZSEE Seminar, Wellington, August 2008
- “Assessment of Liquefaction and its Consequences”, Presenter, NZSEE Seminar, Christchurch, August 2008
- “Key Parameters in Pseudo-static Analysis of Piles in Liquefying Soils”, Invited Presentation, Most-Valuable Paper Award, “Common Ground”, 10th ANZ Conference on Geomechanics, Brisbane, October 2007
- “Analysis of Piles in Liquefying Soils”, Invited Lecture, 4th ICUEE, Tokyo Institute of Technology, Tokyo, 5-6 March 2007
- “Simplified Analysis of Piles Subjected to Lateral Spreading: Parameters and Uncertainties”, Invited Lecture, 4ICEGE, Thessaloniki, June 2007
- “Pseudo-Static Analysis of Piles Subjected to Lateral Spreading,” Invited Lecture, New Zealand Workshop on Geotechnical Earthquake Engineering, November 2006
- “Simulation of 1-g shake table tests using 3-D effective stress analysis”, Invited Lecture, E-Defense Symposium, Tokyo, May 2005 (in Japanese)
- “Assessment of Pile Group Response to Lateral Spreading by Single Pile Analysis”, Invited Lecture, University of California, Davis, March 2005
- “Pile Response to Lateral Spreading of Liquefied Soils”, Invited Lecture, University of Canterbury, Christchurch, December 2004
- “Performance of Piles as Evaluated by Three-Layer Model”, Invited Lecture (co-author), GeoTrans 2004, Los Angeles, July 2004
- “Case Studies of Pile Foundations Undergoing Lateral Spreading in Liquefied Deposits”, , Invited Lecture (co-author), New York, April 2004

- “Simulation of 1-g shake table tests using 3-D effective stress analysis”, Invited Lecture, E-Defense Symposium, Kobe, March 2004 (in Japanese)
- “Liquefaction-Induced Ground Deformation and Damage to Piles in the 1995 Kobe Earthquake”, Invited Lecture, SE 40EEE, Skopje-Ohrid, August 2003
- “Simulation of 1-g shake table tests using 3-D effective stress analysis”, Invited Lecture, E-Defense Symposium, Tsukuba, August 2003 (in Japanese)
- “Assessment of Liquefaction, Flow Potential and Lateral Spreading”, Sakhalin to Japan Pipeline Symposium, Tokyo, December 2002
- “Pile Response to Lateral Spreading of Liquefied Soils: Demand-Capacity Method”, Invited Lecture, U.S.-Japan Seminar, Anchorage, June 2002
- “Flow Potential of Sandy Soils”, Invited Presentation, Best Paper Award, GeoEng 2000, Melbourne, November 2000
- “Effective Stress Analysis of a Vertical Array Site at Port Island, Kobe”, Panel Presentation, 12th European Danube Conference, Porec, May 1998

PROFESSIONAL STANDARDS AND GUIDELINES

- MBIE 2023, *Technical Specification TS1170.5: Structural Design Actions (Earthquake Actions)*, New Zealand Standard, Seismic Risk Working Group Member, *key contributing author*.
- MBIE-NZGS 2021, *Earthquake Geotechnical Engineering Module 1 – Overview of the guidelines*, MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 1, *lead author*.
- MBIE-NZGS 2021, *Earthquake Geotechnical Engineering Module 2 – Geotechnical Investigations for Earthquake Engineering*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 1, *co-author*.
- MBIE-NZGS 2021, *Earthquake Geotechnical Engineering Module 3 – Identification, Assessment and Mitigation of Liquefaction Hazards*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 1, *lead author*.
- MBIE-NZGS 2021, *Earthquake Geotechnical Engineering Module 4 –Earthquake Resistant Foundation Design*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 1, *co-author*.
- MBIE 2020, *Rethinking seismic risk in the building control system –Options for change*: MBIE, July 2020, *co-author*.
- NZTA 2018, *Assessment of piled bridges at sites prone to liquefaction and lateral spreading*. New Zealand Transport Agency, NZTA, *principal author*.
- MBIE-NZGS 2016, *Earthquake Geotechnical Engineering Module 1 – Overview of the guidelines*, MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 0, *lead author*.
- MBIE-NZGS 2016, *Earthquake Geotechnical Engineering Module 2 – Geotechnical Investigations for Earthquake Engineering*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 0, *co-author*.
- MBIE-NZGS 2016, *Earthquake Geotechnical Engineering Module 3 – Identification, Assessment and Mitigation of Liquefaction Hazards*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 0, *lead author*.
- MBIE-NZGS 2016, *Earthquake Geotechnical Engineering Module 4 –Earthquake Resistant Foundation Design*: MBIE-NZGS Guidelines for Earthquake Geotechnical Engineering Practice, Revision 0, *co-author*.
- NZTA 2014, *The development of design guidance for bridges in New Zealand for liquefaction and lateral spreading effects*. New Zealand Transport Agency, NZTA, *principal author*.
- NZGS 2010, *Module 1: Liquefaction Guidelines for Geotechnical Earthquake Engineering Practice in New Zealand*. New Zealand Geotechnical Society (NZGS), pp. 35, 2010; *lead author*.

RESEARCH GRANTS

Total external funding of \$7,020,000 as principal investigator, plus QuakeCoRE funding of \$52,300,000 as one of ten principal investigators.

- “Assessment and mitigation of liquefaction hazards”, Natural Hazards Commission (NHC), \$450,000., E7296, 01/2024 – 12/2026, Principal Investigator.
- “Te Hiranga Rū QuakeCoRE: NZ Centre for Earthquake Resilience” Tertiary Education Commission (TEC), \$31,500,000., 01/07/21 – 30/06/28, Principal Investigator.
- “Assessment and mitigation of liquefaction hazards” Earthquake Commission (EQC), \$437,500., E7198, 07/2020 – 12/2023, Principal Investigator.
- “Seismic soil-structure interaction”, NSC: Resilience: Built environment, \$100,000., E7100, 01/09/2019 – 30/06/2024, Principal Investigator.
- “Earthquake hazards in New Zealand: assessment and mitigation” Earthquake Commission (EQC), \$150,000., E6755, 07/2019 – 06/2020, Principal Investigator.
- “Liquefaction resistance of gravelly reclamations”, CentrePort, \$33,000, 1/05/2019 – 31/12/2019, Principal Investigator.
- “Assessment and mitigation of liquefaction potential across Europe; a holistic approach to protect structures/ infrastructures for improved resilience to earthquake induced liquefaction disasters“ \$43,008. E6904, European Commission (via Anglia Ruskin University, UK), Project Advisor, 2016 - 2019.
- “Flagship Programme 2 Coordinated Research Project 2019-2020” QuakeCoRE, \$690,000., QC045, 1/1/2019 – 30/06/2021, Principal Investigator.
- “QuakeCoRE Leadership Team and PI Project Costs, \$63,000. QC040, 1/1/2018 – 31/12/2020, Principal Investigator.
- “Flagship Programme 2 Coordinated Research Project 2018” QuakeCoRE, \$250,000., QC036, 1/1/2018 – 30/06/2019, Principal Investigator.
- “Simulation of liquefaction impacts from an Alpine Fault earthquake on land and Infrastructure in Christchurch and Nelson (Alpine Fault Project)” QuakeCoRE, \$30,000., QC026, 1/1/2018 – 30/06/2018, Principal Investigator.
- “FP2 Liquefaction impacts on infrastructure” QuakeCoRE, \$35,702., QC013, 1/4/2017 – 31/03/2018, Principal Investigator.
- “Effects of partial saturation on liquefaction triggering” QuakeCoRE, \$30,000., QC009, 1/1/2016 – 31/03/2017, Principal Investigator.
- “Kaikoura Earthquake response – Geotechnical characterization of CentrePort reclamations” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$72,000., E6718, 04/17 – 10/17, Principal Investigator.
- “US - NZ Japan International workshop on liquefaction-induced ground movements effects” (2-4 November 2016), Earthquake Commission (EQC), \$25,000., E6616, 11/16 – 05/17, Principal Investigator.
- “Provision of downhole seismic data” Ministry of Business, Innovation & Employment (MBIE), \$30,000., E6548, 03/16 – 06/17, Principal Investigator.
- “Advancements in Engineering Guidelines and Standards” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$3,389,000., E6518, E6517, 01/16 – 10/19, Principal Investigator.
- “QuakeCoRE: NZ Centre for Earthquake Resilience” Tertiary Education Commission (TEC), \$20,815,039., E6471, 01/16 – 12/20, Principal Investigator.
- “Flagship 2: Liquefaction impacts on infrastructure (Post Doc funding)” Tertiary Education Commission (TEC), QuakeCoRE, \$35,702., QC013, 01/16 – 12/17, Principal Investigator.
- “Effects of Partial Saturation on Liquefaction Triggering” Tertiary Education Commission (TEC), QuakeCoRE, \$30,000., QC009, 01/16 – 03/17, Principal Investigator.
- “Coupled soil-foundation-structure systems earthquake response” Ministry of Business, Innovation & Employment (MBIE), \$12,000., E6505, 07/15 – 06/17, Research Advisor.
- “Liquefaction triggering and consequence for low-plasticity silty soils” Ministry of Business, Innovation & Employment (MBIE), \$66,000., E6459, 01/14 – 06/16, Principal Investigator.
- “Earthquake hazards in New Zealand: assessment and mitigation” Earthquake Commission (EQC), \$1,500,000., E6755, 07/014 – 06/19, Principal Investigator.

- “The impacts of soil liquefaction - Geotechnical evaluation and design” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$725,700., E6100, 07/12 – 06/15, Principal Investigator.
- “The impacts of soil liquefaction - Geotechnical evaluation and design” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$105,300., E6096, 07/12 – 06/13, Principal Investigator.
- “CBD foundation damage” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$81,349., UC92, 05/11 – 12/11, Principal Investigator.
- “NHRP-RP6: Liquefaction impacts on pipe networks” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$72,476., UC91, 05/11 – 12/11, Principal Investigator.
- “NHRP-RP16: Damage to residential houses/foundations” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$60,000., UC93, 05/11 – 12/11, Principal Investigator.
- “Liquefaction Hazard Investigations in residential areas of greater Christchurch” Environment Canterbury (ECan), \$45,000., E5851, 11/10 – 02/11, Principal Investigator.
- “2010 Darfield Earthquake: Liquefaction and lateral spreading studies (Phase A)” Earthquake Commission (EQC), \$25,000., E5866, 09/10 – 10/10, Principal Investigator.
- “Pile-group effects in liquefying soils” Earthquake Commission (EQC), \$40,000., E5696, 04/10 – 04/13, Principal Investigator.
- “Seismic earth pressures and interaction loads in geosynthetic reinforced soil walls” Earthquake Commission (EQC), \$41,300., UC89, 07/10 – 06/12, Co-Principal Investigator.
- “South Island earthquake hazards: assessment and mitigation” Earthquake Commission (EQC), \$1,125,000., E5713, 07/09 – 06/14, Principal Investigator.
- “Geotechnical & engineering geological characterisation of Christchurch soils” Environment Canterbury (ECan), \$75,000., E5621, 07/09 – 02/14, Principal Investigator.
- “Seikensha Dynamic Triaxial Apparatus”, University of Canterbury, \$110,000., UC1610, 07/09 – 01/10, Principal Investigator.
- “An experimental study on geosynthetic reinforced soil walls under seismic loading” Earthquake Commission (EQC), \$26,000., E5713, 07/08 – 06/10, Co-Principal Investigator.
- “GDS Triaxial Apparatus”, University of Canterbury, \$90,000., UC1609, 07/07– 01/08, Principal Investigator.
- “Characterisation of undrained behaviour of Christchurch soils, phase 2” Earthquake Commission (EQC), \$12,000., E5464, 06/08 – 05/09, Principal Investigator.
- “Analysis and design of piles in liquefying soils” Earthquake Commission (EQC), \$40,237., E5435, 03/08 – 02/10, Principal Investigator.
- “Characterisation of undrained behaviour of Christchurch soils” Earthquake Commission (EQC), \$20,000., E5223, 06/06 – 05/07, Principal Investigator.
- “Behaviour of piles in liquefiable deposits during strong earthquakes” Earthquake Commission (EQC), \$20,000., E5222, 06/06 – 05/07, Principal Investigator.
- “E-Defense Project: Special project on mitigation of earthquake disasters in metropolitan area”, MEXT: Ministry of Science and Education Japan, YEN5,000,000., UC96, 04/05 – 03/07, Principal Investigator.
- “Earth-shattering detective work: Uncovering the mysteries of unresolved ground motion and geotechnical case-histories from the 2010-2011 Canterbury earthquakes”, Royal Society of New Zealand \$800,000., E6191, 01/14 – 12/18, Associate Investigator.
- “A liquefiable bowl of jelly: Understanding the seismic response of a soft and saturated sedimentary basin in the Canterbury earthquakes”, Royal Society of New Zealand \$300,000., M1171, 01/14 – 08/17, Associate Investigator.
- “Examining the role of 3D nonlinear local site effects in the Canterbury earthquakes”, Earthquake Commission (EQC), \$60,000., E6102, 5/13 – 4/15, Associate Investigator.
- “Lessons learned from Christchurch” Ministry of Business, Innovation & Employment (MBIE), Natural Hazards Research Platform (NHRP), \$255,523., E6020, 07/12 – 06/15, Associate Investigator.
- “Seismic Site Response Analysis of soil sites during the Christchurch earthquakes”, Earthquake Commission (EQC), \$42,000., E5961, 4/12 – 2/14, Associate Investigator.

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- Green, R., Wotherspoon, L., Cubrinovski, M. (in print). Chapter 8: Damage and restoration to river stopbanks. In *Christchurch, New Zealand, Earthquake-Flood Multihazard Impacts on Lifelines*, ASCE.
- Cubrinovski, M., Pampanin, S., & Bradley, B. (2013). Chapter 1: Geotechnical and Structural Aspects of the 2010-2011 Christchurch (New Zealand) Earthquakes. In M. Garevski (Ed.), *Earthquakes and Health Monitoring of Civil Structures* (pp. 1-35). Dordrecht: Springer. doi:[10.1007/978-94-007-5182-8_1](https://doi.org/10.1007/978-94-007-5182-8_1)
- Cubrinovski, M., Haskell, J. J. M., & Bradley, B. A. (2012). Chapter 6: Analysis of Piles in Liquefying Soils by the Pseudo-Static Approach. In M. A. Sakr, & A. Ansal (Eds.), *Special Topics in Earthquake Geotechnical Engineering. Geotechnical, Geological and Earthquake Engineering Vol 16* (pp. 147-174). London & New York: Springer. doi:[10.1007/978-94-007-2060-2_6](https://doi.org/10.1007/978-94-007-2060-2_6)
- Cubrinovski, M., Rees, S., & Bowman, E. (2010). Chapter 6: Effects of Non-plastic Fines on Liquefaction Resistance of Sandy Soils. In *Geotechnical, Geological and Earthquake Engineering Vol. 17* (pp. 125-144). Springer Dordrecht London & New York. doi:[10.1007/978-90-481-9544-2_6](https://doi.org/10.1007/978-90-481-9544-2_6)

EDITED BOOKS (JOURNAL VOLUMES)

- Special Issue "6ICEGE Invited Papers": *Soil Dynamics and Earthquake Engineering*, Vol. 91 (pp. 328), Eds. Cubrinovski, M., & Bradley, B. (2016). Elsevier.
- Special Issue "Canterbury Earthquake Sequence": *Earthquake Spectra*, Vol. 30(1). (pp. 605), Eds. Elwood K, Camerio M, Cubrinovski M, Johnston D, Pampanin S, O'Rourke T (2014). EERI.
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- Proceedings of the 6th International Conference on Earthquake Geotechnical Engineering (6ICEGE)*, Eds. Cubrinovski, M., & Bradley, B. (2015) (pp. 2600). NZGS.
- Proceedings of of New Zealand Workshop on Geotechnical Earthquake Engineering – 2006*, Eds. Cubrinovski M & Pender M. (2006) (pp. 393). University of Canterbury.

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- Millen, MDL and Cubrinovski M. (2024). Evaluation of lateral spreading due to Canterbury earthquakes using effective stress analysis. *Soil Dynamics and Earthquake Engineering*, 190, <https://doi.org/10.1016/j.soildyn.2024.109115>
- Capellaro, C., Dhakal, R. & Cubrinovski, M. (2024). Liquefaction hazard of wellington reclamations based on conventional analysis. *Bulletin of the New Zealand Society for Earthquake Engineering*, 57(2), 97-116.
- Pokhrel, A., Chiaro, G., Kiyota, T. and Cubrinovski M. (2024). Liquefaction characteristics of sand-gravel mixtures: Experimental observations and its assessment based on intergranular state concept. *Soils and Foundations*, 64 (2024), 101444. <https://doi.org/10.1016/j.sandf.2024.101444>
- Ntritsos N. & Cubrinovski M. (2023). Ground-motion effects on liquefaction response. *Soil Dynamics and Earthquake Engineering*, 168, <https://doi.org/10.1016/j.soildyn.2023.108392>
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TECHNICAL REPORTS (79 publications; partial list)

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