

## Andrea Lisjak Bradley, PhD

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PERSONAL INFORMATION	Nationality: Italian Place of birth: Trieste, Italy Date of birth: October 4, 1984	
CONTACT INFORMATION	Office: +1 647 478 9667 x936 Mobile: +1 416 799 9161 27 Major St., Toronto ON, M5S 2K9 andrea.lisjak@geomechanica.com	
EDUCATION	<i>Doctor of Philosophy</i> , Civil Engineering - Rock Mechanics, University of Toronto <i>Master of Science</i> (110/110 cum laude), Civil Engineering, University of Trieste <i>Bachelor of Science</i> (110/110 cum laude), Civil Engineering, University of Trieste	2009 – 2013 2006 – 2008 2003 – 2006
WORK & RESEARCH EXPERIENCE	<i>Geomechanics Specialist</i> , Geomechanica Inc., Toronto, Canada • Simulation-based technical consulting for rock engineering applications <i>Research Assistant</i> , Dept. of Civil Engineering (Prof. G. Grasselli), University of Toronto • Numerical investigation of the fracturing behaviour of clay shales <i>Field Research Assistant</i> , Swiss Nuclear Waste Management Organization (NAGRA) • Geological mapping of the FE tunnel (Mont Terri Rock Laboratory, Switzerland) <i>Field Research Assistant</i> , Dept. of Civil Engineering (Prof. B. Della Vedova), University of Trieste • Mud logging and sampling for the Grado-1 deep geothermal well (Gorizia, Italy) <i>Engineering Trainee</i> , City of Trieste (Dr. E. Cortese) • Monitoring data analysis for the Carso and Cattinara tunnels (Trieste, Italy)	2013 – Present 2009 – 2013 2012 2007 2006
LEADERSHIP & TEACHING	<i>Teaching Assistant</i> , Faculty of Engineering, University of Toronto <i>Co-Lead</i> , Short course on discrete fracture process modelling, ETH Zürich, Switzerland <i>Lead</i> , Workshop on rock slope stability analysis using FEM/DEM, Politecnico di Milano, Italy <i>Lead</i> , Workshop on FEM/DEM modelling of brickworks, Università IUAV, Venice, Italy	2009 – 2013 2013 2011 2010
PROFESSIONAL ASSOCIATIONS	<i>Member</i> , Canadian Geotechnical Society <i>Member</i> , Canadian Rock Mechanics Association <i>Member</i> , International Society for Rock Mechanics <i>Qualified Member</i> , Italian Society of Professional Engineers (not registered)	
HONORS AND AWARDS	<i>Grosso Group Graduate Scholarship</i> , Lassaonde Institute of Mining <i>Ontario Graduate Scholarship</i> , Ministry of Training, Colleges & Universities of Ontario <i>St. George's Society Graduate Scholarship</i> <i>O. Brovedani Award</i> , Faculty of Engineering, University of Trieste <i>Er.Di.S.U. Award</i> , University of Trieste	2012 2010 2010 2008 2005; 2007; 2008
PUBLISHED WORKS	<i>Refereed journal papers</i> <ol style="list-style-type: none"><li>Lisjak A, Garitte B, Grasselli G, Müller HR, Vietor T. The excavation of a circular tunnel in a bedded argillaceous rock (Opalinus Clay): short-term rock mass response and numerical analysis using FEM/DEM. In preparation for <i>Tunn Undergr Sp Tech</i></li><li>Lisjak A, Grasselli G, 2013. A review of discrete modelling techniques for fracturing processes in discontinuous rock masses. <i>J Rock Mech Geotech Eng</i> (Accepted)</li><li>Lisjak A, Grasselli G, Vietor T, 2013. Continuum-discontinuum analysis of failure mechanisms around unsupported circular openings in anisotropic clay shales. <i>Int J Rock Mech Min Sci</i>. DOI: 10.1016/j.ijrmms.2013.10.006 (In press)</li><li>Lisjak A, Liu Q, Qi Z, Mahabadi OK, Grasselli G, 2013. Numerical simulation of acoustic emission in brittle rocks by two-dimensional finite-discrete element analysis. <i>Geophys J Int</i> 195(1), 423-443.</li><li>Lisjak A, Tatone BSA, Grasselli G, Vietor T, 2012. Numerical modelling of the anisotropic mechanical behaviour of Opalinus Clay at the laboratory-scale using FEM/DEM. <i>Rock Mech Rock Eng</i>. DOI: 10.1007/s00603-012-0354-7 (In press)</li><li>Mahabadi OK, Lisjak A, Munjiza A, Grasselli G, 2012. Y-Geo: a new combined finite-discrete element numerical code for geomechanical applications. <i>Int J Geomech</i> 12, 676-688.</li></ol> <i>Other selected publications</i> <ul style="list-style-type: none"><li>Lisjak A, Grasselli G, 2011. Rock slope stability analysis under dynamic loading using a combined finite-discrete element approach. <i>Proceedings of the Pan-Am CGS Geotechnical Conference</i>, Toronto, 2-6 October 2011. (Oral presentation)</li><li>Lisjak A, Grasselli G, Giacomini A, Spadari M, 2010. Numerical modelling of rock falls using a combined finite-discrete element approach. <i>Proceedings of the Rock Slope Stability Symposium</i>, Paris, 24-25 November 2010. (Oral presentation)</li></ul>	