

# Bryan Stanley Anthony Tatone, PhD

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| PERSONAL INFORMATION      | Nationality: Canadian<br>Place of birth: St. Catharines, Ontario, Canada<br>Date of birth: November 18, 1983  |   |
| CONTACT INFORMATION       | Phone: +1-905-870-8930<br>Email: <a href="mailto:bryan.tatone@geomechanica.com">bryan.tatone@geomechanica.com</a><br>Business address: Suite 300 – 90 Adelaide St. West, Toronto ON, Canada, M5H 3V9<br>Home address: 5103 Falconcrest Drive, Burlington ON, Canada, L7L 6K3  |   |
| EDUCATION                 | <i>Doctor of Philosophy</i> , Civil Engineering – Rock Mechanics, University of Toronto<br><i>Master of Applied Science</i> , Civil Engineering – Rock Mechanics, University of Toronto<br><i>Bachelor of Applied Science</i> , Geological Engineering, University of Waterloo  | 2009 – 2014<br>2007 – 2009<br>2002 – 2007                           |
| WORK EXPERIENCE           | <i>Geomechanics Specialist</i> , Geomechanica Inc., Toronto, Canada <ul style="list-style-type: none"> <li>Simulation-based technical consulting for rock engineering applications</li> </ul> <i>Post Doctoral Researcher</i> , Dept. of Geological Sciences and Geological Engineering (Prof. N. Vlachopoulos), Queen’s University <ul style="list-style-type: none"> <li>Integration rock support elements into the Hybrid Finite-Discrete Element Method (FDEM)</li> </ul> <i>Research Assistant</i> , Dept. of Civil Engineering (Prof. G. Grasselli), University of Toronto <ul style="list-style-type: none"> <li>PhD: Rock joint morphology under direct shear</li> <li>MASc: Quantitative description of Surface roughness</li> </ul> <i>Field Engineering Assistant</i> , AMC Consultants <ul style="list-style-type: none"> <li>Geotechnical investigation for arctic mining project</li> </ul> <i>Geotechnical Engineering Assistant</i> , Hatch Ltd. <ul style="list-style-type: none"> <li>Field monitoring staff for construction of 30 m earth and rockfill dam</li> </ul>   | 2014 – present<br>2014<br>2007 – 2014<br>2012<br>2005-2007          |
| LEADERSHIP & TEACHING     | <i>Co-Lead</i> , Short course on discrete fracture process modelling using Irazu FDEM software, 13th ISRM Congress, Montreal<br><i>Lead</i> , Short course on discrete fracture process modelling using Irazu FDEM software, 49th US Rock Mechanics Symposium, San Francisco<br><i>Teaching Assistant</i> , Faculty of Engineering, University of Toronto   | 2015<br>2015<br>2007 – 2013   |
| HONORS & AWARDS           | <i>Canadian Foundation for Geotechnique National Graduate Scholarship Fellowship in Entrepreneurship and Engineering</i> , Lassonde Institute of Mining<br><i>Ontario Graduate Scholarship</i> , Ministry of Training, Colleges & Universities of Ontario<br><i>NSERC Post Graduate Scholarship – PhD</i> .<br><i>Gary Salmon Memorial Scholarship</i> , Canadian Dam Association<br><i>NSERC Post Graduate Scholarship – MASc</i> .<br><i>William Trow Scholarship</i> , Department of Civil Engineering, University of Toronto  | 2013<br>2012<br>2011-2014<br>2009-2011<br>2010<br>2007-2009<br>2008 |
| PROFESSIONAL AFFILIATIONS | <i>Member</i> , Canadian Geotechnical Society<br><i>Member</i> , Canadian Institute of Mining<br><i>Member</i> , International Society for Rock Mechanics<br><i>Member</i> , Canadian Rock Mechanics Association  |   |
| SELECTED PUBLICATIONS     | <b>Tatone BSA</b> and Grasselli G (2015) A calibration procedure for two-dimensional laboratory-scale hybrid finite-discrete element simulations. <i>Int J Rock Mech Min Sci</i> 75 (0), 56-72.<br>Mahabadi OK, <b>Tatone BSA</b> , Grasselli G (2014) Influence of microscale heterogeneity and microstructure on the tensile behavior of crystalline rocks. <i>Journal of Geophysical Research: Solid Earth</i> 119 (7) 5324-5341.<br><b>Tatone BSA</b> , Grasselli G (2014) Characterization of the effect of normal load on the discontinuity morphology in direct shear specimens using X-ray micro-CT. <i>Acta Geotech</i> 10 (1) 31-54.<br>Muralha J, Grasselli G, <b>Tatone BSA</b> , Blumel, M, Chryssanthakis P, Jiang, Y (2014) ISRM suggested method for laboratory determination of the shear strength of rock joints: rev. version. <i>Rock Mech Rock Eng</i> 47 (1) 291-302.<br>Grasselli G, Lisjak A, Mahabadi OK, <b>Tatone BSA</b> (2014) Influence of pre-existing discontinuities and rock mass fabric on hydraulic fracturing initiation. <i>European Journal of Environmental and Civil Engineering</i> 19 (5) 580-597.<br>Lisjak A, <b>Tatone BSA</b> , Grasselli G, Vietor T (2014) Numerical modelling of the anisotropic mechanical behaviour of Opalinus Clay at the laboratory-scale using FEM/DEM. <i>Rock Mech Rock Eng</i> 47 (1) 187-206.<br><b>Tatone BSA</b> , Grasselli G (2013) An investigation of discontinuity roughness scale dependency using high-resolution surface measurements. <i>Rock Mech Rock Eng</i> 46 (4) 657-681 |   |