

## Dr. Jinyuan Liu, P.E., P.Eng.

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### 1. EDUCATION

Ph.D /Civil (Geotechnical) Engineering	Polytechnic University	1.2003
Ph.D. /Civil (Geotechnical) Engineering	Tongji University	9.1999
M.S./Civil (Structural) Engineering	Nanjing Hydraulic Research Institute	7.1995
B.S. / Civil (Structural) Engineering	Hohai University	7.1992

### 2. WORK EXPERIENCE

Feb. 2012 — Now	Associate Professor	Ryerson University	Toronto, ON
July 2007 — Feb. 2012	Assistant Professor	Ryerson University	Toronto, ON
Oct. 2005 — June 2007	Tunnel Engineer	Jacobs Engineering Group	Detroit, MI
Nov. 2002 — Oct. 2005	Sr Geotech Engineer	STV Inc	New York, NY
June 1995 — Sept.1996	Structural Engineer	Nanjing Hydraulic Res.Inst.	Nanjing, China

### 3. REPRESENTATIVE PUBLICATIONS (more than 80 publications)

- Liu J\*, Liu M, Zhu Z. 2012. Sand deformation around an uplifting plate anchor. *ASCE, Journal of Geotechnical & Geoenvironmental Engineering*. 138(6), 728–737.
- Liu J\*, Gao H, Liu H. 2012. Finite element analyses of negative skin friction on a single pile. *Acta Geotechnica*, 7(1), 1-14.
- Liu J\*, Yuan B, Mai V, Dimaano R. 2011. Optical Measurement of sand deformation around a laterally loaded pile, *ASTM, Journal of Testing and Evaluation*, 39(5), 754-759.
- Liu H, Li P, Liu J. 2011. Numerical investigation of underlying tunnel heave during a new tunnel construction. *Elsevier, Tunnelling and Underground Space Technology*, 26(2), 276-283.
- Liu J\*, Iskander M. 2010. Modelling capacity of transparent soil. *Canadian Geotechnical Journal*, 47(4), 451-460.
- Iskander M, Liu J\*. 2010. Spatial deformation measurement using transparent soil. *ASTM, Geotechnical Testing Journal*, 33(4), 314-321.
- Iskander M, Liu J, Sadek S. 2002. Transparent amorphous silica to model clay. *ASCE, J. of Geotechnical & Geoenvironmental Engineering*, 128(3), 262-273.
- Liu J, Iskander M, Sadek S. 2003. Consolidation and permeability of Transparent Amorphous Silica. *ASTM, Geotechnical Testing Journal*, 26(4), 390-401.
- Liu J. 2003. Compensation grouting to reduce settlement of buildings during an adjacent deep excavation. *Grouting & Ground Treatment*; ASCE GSP120(2), 837-844.

### 4. TYPICAL RESEARCH PROJECTS

3D soil deformation during cone penetration using transparent soil	NSERC
Development of guidelines of soil nail walls for highway construction	MTO
Ultrasonic NDT of soil nail walls	NSERC & OCE
Long-term settlement of dam	NSERC
Soil-nail interface investigation	NSERC
Visualization of deformation development during soft ground TBM Tunnelling	WHRSI
Visualization of hydrofracturing during injection grouting using transparent soil	CUMT

### 5. RESEARCH ASSISTANTSHIPS AND COLLABORATIONS

I am actively recruiting graduate students for geotechnical engineering research and education at Ryerson University. At the same time, I am also interested in applying knowledge into practice and collaborating with other researchers and industrial partners.