

1. Name

Jai Kyoung Jung

2. Education

-Ph.D., Geotechnical Engineering, Cornell University, NY, 2011

-BS, Civil Engineering, Hanyang University, Korea, 2006

3. Academic experience

-Virginia Military Institute, Assistant Professor, Civil and Environmental Engineering (CEE), 2018-present, full time

-Youngstown State University (YSU) , Assistant Professor, Civil/Environmental and Chemical Engineering, 2015-2018, full time

4. Non-academic experience

-Research Associate, University of Waterloo, research on Trenchless Technology, 2014-2015, full time

-Post-Doctoral Research Fellow, Virginia Tech, develop national database for underground infrastructure, 2010-2012, full time

-Research Assistant, Cornell University, research on soil-pipe interaction, 2008-2010, full time

5. Certifications or professional registrations

-Engineer in Training, Michigan, 2018

6. Current membership in professional organizations

-Member of the American Society of Civil Engineers (ASCE)

-Member of the Korean-American Scientists and Engineers Association (KSEA)

7. Honors and awards

-Poster Competition, 2nd Place Award, No-Dig Show Conference, North American Society of Trenchless Technology (NASTT), 2011

-John E. Perry Teaching Assistant Prize, Cornell University, 2010, 2009

-CEE Research Symposium, Poster section, 2nd Place Award, Cornell University, 2010

8. Service activities

-Canadian Geotechnical Journal Reviewer (2018)

-Korean Society of Civil Engineers (KSCE) Journal of Civil Engineering Reviewer (2015-2017)

-YSU Curriculum Committee (2017-2018)

-YSU Academic Honors The Emperor Faculty Reviewer (2016-2017)

-Centre for Advancement of Trenchless Technology (CATT) Education, Membership, and Seminar Committee (2015-2016)

-KSEA Conference Organizer, Moderator (2012)

9. Publications and presentations from the past five years

*Ryu, J. J., Shrestha, S., Manogharan, G., & **Jung, J. K.** (2018). Sliding contact wear damage of EBM built Ti6Al4V: Influence of process induced anisotropic microstructure. *Metals*, 8(2), 131.

***Jung, J. K.**, O'Rourke, T., & Argyrou, C. (2016). Multi-directional force-displacement response of underground pipe in sand. *Canadian Geotechnical Journal*, 53(11): 1763-1781, 10.1139/cgj-2016-0059
<Selected as the Editor's Choice paper for 2016>

O'Rourke, T. D., ***Jung, J. K.**, & Argyrou, C. (2016). Underground pipeline response to earthquake-induced ground deformation. *Soil Dynamics and Earthquake Engineering*, 91: 272-283.

Giles, S., Knight, M., & ***Jung, J. K.** (2015). Determination of clay barriers hydraulic conductivity using a centrifuge permeameter. *Journal of Solid Waste Technology & Management*, 41(4).

*O'Rourke, T. D., **Jung, J. K.**, & Argyrou, C. (2015). Underground infrastructure response to earthquake-induced ground deformation. *Proceedings of the 6th International conference on earthquake engineering, Christchurch, New Zealand*.

*Younis, R., Knight, M., Kleiner, Y., Matthews, J., & **Jung, J.** Drinking water pipelines defect coding system. *Pipelines 2015* (pp. 1110-1124).

***Jung, J. K.**, Koo, D. H. D., & Zhang, K. (2014). Verification of the pipe depth dependent model using a finite element analysis. *Tunnelling and Underground Space Technology*, 39, 34-40.

***Jung, J. K.**, Sinha, S. K., & Whittle, L. G. (2013). Development of a water infrastructure knowledge database. *Journal of Infrastructure Systems*, 20(1), 04013006.

***Jung, J. K.**, O'Rourke, T. D., & Olson, N. A. (2013). Lateral soil-pipe interaction in dry and partially saturated sand. *Journal of Geotechnical and Geoenvironmental Engineering*, 139(12), 2028-2036.

***Jung, J. K.**, O'Rourke, T. D., & Olson, N. A. (2013). Uplift soil-pipe interaction in granular soil. *Canadian Geotechnical Journal*, 50(7), 744-753.

*Uslu, B., Sinha, S. K., Alanis, L. G., & **Jung, J. K.** (2013). WaterID manual. *Water Intelligence Online*, 12, 9781780405582.

*O'Rourke, T. D., Jeon, S. S., Toprak, S., Cubrinovski, M., & **Jung, J. K.** (2012). Underground lifeline system performance during the Canterbury earthquake sequence. *Proceedings of the 15th world conference on earthquake engineering, Lisbon, Portugal*.

*Koo, D. H. D., **Jung, J. K.**, & Lee, W. (2012). Sustainability applications for storm drainage systems minimizing adverse impacts of global climate change. *International Conference on Pipelines and Trenchless Technology, Wuhan, China*.

*Steiner, K., Sinha, S., **Jung, J. K.**, & Graf, W. (2012). Proposed guidance for implementation of renewal engineering technologies for drinking water and wastewater system pipelines. *Proceedings of the Water Environment Federation, 2012(15)*, 1581-1606.

*Zhang, K., **Jung, J. K.**, & Zhang, T. (2011). True triaxial experimental study of stress-induced anisotropy of sand. *Instrumentation, Testing, and Modeling of Soil and Rock Behavior* (pp. 186-193). ASCE.

***Jung, J. K.**, & Zhang, K. (2011). Finite element analyses of soil-pipe behavior in dry sand under lateral loading. In *Reston, VA: ASCE Proceedings Of The Pipelines 2011 Conference, July 23-27, 2011, Seattle, Washington/ d* (Vol. 20110000, pp. 312-324).

*Thuruthy, N., Sinha, S., **Jung, J. K.**, Graf, W., & Aijaz, M. (2011). Development of a web-based interactive national database of condition assessment technologies for water & wastewater pipelines. *Proceedings of the Water Environment Federation, 2011(16)*, 1086-1099.

*Steiner, K., Sinha, S., **Jung, J. K.**, Whittle, G., & Graf, W. (2011). Development of a web-based interactive database for water and wastewater pipeline renewal engineering technologies and management practices. *Proceedings of the Water Environment Federation, 2011(8)*, 6879-6892.

*Mason, J. A., O'Rourke, T. D., & **Jung, J. K.** (2010). Direct tension performance of steel pipelines with welded slip joints. *Journal of Pipeline Systems Engineering and Practice, 1(4)*, 133-140.

10. Most recent professional development activities

-Speaker-Trenchless Technology Road Show, Vancouver, BC, Canada, 2017

-Presenter-Trenchless Technology Road Show, Niagara Falls, ON, Canada, 2016

-Speaker-ASCE The Pipelines Conference, Seattle, WA, 2011

-Presenter-No-Dig Show Conference, Washington, D.C., 2011

-Presenter-CEE Research Symposium, Ithaca, NY, 2010