

# Matthew T. Yarnold, PhD, PE



## *Curriculum Vitae*

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Assistant Professor  
Department of Civil and Environmental Engineering  
Tennessee Technological University  
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## *Education*

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Ph.D., Civil Engineering, Drexel University, March 2013

Dissertation: Temperature-Based Structural Identification and Health Monitoring for Long-Span Bridges

Advisor: Franklin L. Moon

## *Experience*

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- Research (6.5 Years)
  - 1.5 Years: Tennessee Technological University (Assistant Professor)
  - 4 Years: Drexel University (PhD Student)
  - 2 Years: Lehigh University (MS Student)
- Structural Engineering (7 Years)
  - 2 Years: Project Engineer, Intelligent Infrastructure Systems
  - 5 Years: Structural Engineer, Ammann & Whitney

## *Current Funded Research*

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- “Structural Health Monitoring using Temperature Related Data”, M.T. Yarnold (Lead PI-TTU) in collaboration with B. Glisic (PI-Princeton)  
NSF CMMI (HMSE): 8/1/2014 (Awarded)
- “Data Collection of Internal Forces during Dismantling of a Steel Bridge”, M.T. Yarnold (PI)  
NSF CMMI (HMSE - RAPID): 8/15/2014 (Awarded)
- “Structural Health Monitoring of the Tacony-Palmyra Bridge Arch Span”, M.T. Yarnold (PI)  
IIS: 6/11/2014 (Awarded)

## *Recent Publications*

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- Yarnold, M.T., Moon, F.L., Aktan, A.E., (2015 Accepted) "Temperature-Based Structural Identification of Long-Span Bridges," *Journal of Structural Engineering*
- Yarnold, M.T. & Dubbs, N.C., (Currently in Publication) "Bearing Assessment using Periodic Temperature-Base Assessment," *Journal of the Transportation Research Record*
- Yarnold, M.T., Moon, F.L. (2015) "Temperature-Based Structural Health Monitoring Baseline for Long-Span Bridges," *Engineering Structures*, 86(0), 157-167
- Yarnold, M.T. (2014). "Identification of Bridge Movement Mechanisms," *Engineering*, 6, 584-591.
- Glisic, B., Yarnold, M. T., Moon, F. L., and Aktan, A. E. (2014). "Advanced Visualization and Accessibility to Heterogeneous Monitoring Data." *Computer-Aided Civil and Infrastructure Engineering*, 29(5), 382-398.