

# Mohammadreza Bahadori

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176 B, Main Building. Philadelphia, PA 19104  
Cell: (703) 872-9805 - Email: mb3544@drexel.edu

## RESEARCH INTEREST

Computational Mechanics, Fracture Mechanics, Extended Finite Element, Peridynamics, and Composite Materials.

## COMPUTER SKILLS

**Finite Element Analysis Software** ANSYS, ABAQUS, COMSOL  
**Programming Language** C++, Python, MATLAB & Simulink  
**Operating Systems** Linux, Macintosh

## EDUCATION

- Ph.D. in Mechanical Engineering and Mechanics** **Jan. 2016 to present**
- **Drexel University** - Philadelphia, PA. (GPA: 3.87 / 4.00)
  - Academic Advisor: Antonios Kontsos.
- M.Sc. in Mechanical Engineering and Applied Mechanics** **Jan. 2013 to Dec. 2014**
- **University of Pennsylvania** - Philadelphia, PA (GPA: 3.77 / 4.00).
- B.Sc. in Civil Engineering** **Sept. 2009 to Jun. 2012**
- **Sharif University of Technology** - Tehran, Iran (GPA: 3.76 / 4.00).
- Minor in Mathematics** **Sept. 2011 to Jun. 2012**
- **Sharif University of Technology** - Tehran, Iran (GPA: 3.76 / 4.00).

## SELECTED COURSEWORK

Continuum Mechanics, Elasticity, Plasticity, Finite Element Method, Fracture Mechanics, Advanced Fluid Mechanics, Aerodynamics, Numerical Fluid Mechanics, Viscous Fluid Flow, Heat Conduction, Advance Molecular Thermodynamics, Advanced Mathematics in Engineering, Computational Methods, Analytical Mathematics

## PUBLICATIONS

- J1. Hang Yu, Mohammadreza Bahadori, Gregory B Thompson, Christopher R Weinberger. "Understanding dislocation slip in stoichiometric rocksalt transition metal carbides and nitrides." (2017) Journal of Materials Science.
- J2. Ashrafi, H., Keshmiri, H., Bahadori, M.R., Shariyat, M. "An FEM approach for three - Dimensional thermoviscoelastic stress analysis of orthotropic cylinders made of polymers." (2013) Advanced Materials Research," 685, pp. 295-299.
- J3. Ashrafi, H., Bahadori, M.R., Keshmiri, H., Shariyat, M. "Boundary integral equation analysis of an inhomogeneous medium made of functionally graded materials." (2013) Advanced Materials Research, 685, pp. 285-289.
- J4. Ashrafi, H., Bahadori, M.R., Shariyat, M. "Two-dimensional modeling of functionally graded viscoelastic materials using a boundary element approach." (2012) Advanced Materials Research, 463-464, pp. 570-574.
- J5. Ashrafi, H., Bahadori, M.R., Shariyat, M. "Modeling of viscoelastic solid polymers using a boundary element formulation with considering a body load." (2012) Advanced Materials Research, 463-464, pp. 499-504.