

Last name: Razavi Aghjeh

First name: Mir Jalil

Email: jalil.razavi@gmail.com Phone: +1-706-461-5525

Educational Background

- x 2014-2018 PhD in Mechanical Engineering, University of Georgia Athens, Georgia, US.
 - x 2006-2009 MS in Mechanical Engineering, Solid Mechanics, University of Tabriz, Tabriz, Iran.
 - x 2001-2006 BS in Mechanical Engineering, Solid Mechanics, University of Tabriz, Tabriz, Iran.
-

Research Interests

- x Solid mechanics, Biomechanics, Finite element modeling, Mechanics of soft matter and soft biological tissues, Cortical folding of brain, Fracture mechanics, Fatigue and Life analysis, Smart materials.
-

Publications

Books

- x M.J. Razavi, H. Mobki, "Explanatory Manual Solution to 7th Edition of Mechanical Engineering Design of J.E. Shigley – First Volume" Elmiran Publication, Tabriz, Iran, December 2007.
- x M.J. Razavi, H. Mobki, "Explanatory Manual Solution to 7th Edition of Mechanical Engineering Design of J.E. Shigley – Second Volume" Elmiran Publication, Tabriz, Iran, February 2010.

Journal Papers

- x T. Zhang, H. Chen, M.J. Razavi, Y. Li, F. Ge, L. Guo, X. Wang, T. Liu, Exploring 3-hinge Gyral Folding Patterns among HCP Q3 868 Human Subjects, 2018, Human Brain Mapping, accepted.
- x F. Ge, X. Li, *M.J. Razavi, H. Chen, T. Zhang, S. Zhang, Guo, X. Hu, X. Wang, T. Liu, Denser Growing Fiber Connections Induce 3-hinge Gyral Folding, 2017, doi: 10.1093/cercor/bhx227. *First co-author
- x M.J. Razavi, T. Zhang, H. Chen, S. Platt, Y. Zhao, Guo, X. Hu, X. Wang and T. Liu, Radial Structure Scaffolds the Convolution Patterns of Developing Cerebral Cortex, Frontiers in Computational Neuroscience, 2017, doi: 10.3389/fncom.2017.00076.
- x M.J. Razavi, M. Reeves, X. Wang, Mechanical role of a growing solid tumor on cortical folding, Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20(11), 1212-1222.
- x K. Brooks, M.J. Razavi, X. Wang, J. Locklin, "The evolution of creased morphologies using reactive droplets in ultrathin films", Advance Material Interface, 2017, doi: 10.1002/ami.201700084.
- x X. Li, H. Chen, T. Zhang, X. Yu, X. Jiang, K. Li, L. Li, M.J. Razavi, X. Wang, X. Hu, J. Han, L. Guo, X. Hu, T. Liu, "Commonly preserved and species-specific gyral folding patterns across primates", Brain Structure and Function, 2017, 222(5), 2127-2141.
- x G. Stoychev, M.J. Razavi, X. Wang, L. Ionov, "4D origami by smart embroidery", Macromolecular Rapid Communications, 2017, doi: 10.1002/marc.201700213.

- x T. Zhang, *M.J. Razavi, H. Chen, Y. Li, X. Li, L. Li, L. Guo, X. Hu, T. Liu, X. Wang, Mechanisms of circumferential gyral convolution in primate brains, Journal of Computational Neuroscience, 2017, 42, 217-229. *First co-author
- x T. Zhang, *M.J. Razavi, X. Li, H. Chen, T. Liu, X. Wang, Mechanism of Consistent Gyrus Formation: an Experimental and Computational Study, Scientific Reports, 2016, 6 (37272). *First co-author
- x M.J. Razavi, R. Pidaparti, X. Wang, Surface and interfacial creases in a bilayer tubular soft tissue, Physical Review E, 2016, 94 (022405).
- x K. Brooks, M.J. Razavi, X. Wang, J. Locklin, Nanoscale Surface Creasing Induced by Post-Polymerization Modification, ACS Nano, 2015, 5b04144.
- x M.J. Razavi, T. Zhang, T. Liu, X. Wang,

- x T.N. Chakherlou, M.J. Razavi, M.M. Seyyed Fakhraabadi, "Elastic-Plastic Analysis of Nozzles in Pressure Vessels", 1st Annual (International) Conference on Mechanical Engineering ISME2009, Tehran, Iran, 19-21 May, 2009.
- x T.N. Chakherlou, M.J. Razavi, F. Esmaili, "Investigation of Adhesive Thickness Effect in Hybrid Double-Lap Joint Using Finite Element Method", 8th International Conference of Iranian Aerospace Association (IAS2009) Isfahan, Iran, 17-19 February, 2009.
- x M. Zehsaz, F. Esmaili, M.J. Razavi, "Effect of Hole Diameter in Fatigue Life of 7075-T6 Aluminum Alloy Plates Using Volumetric Approach", 8th International Conference of Iranian Aerospace Association (IAS 2009) Isfahan, Iran, 17-19 February, 2009.
- x M. Zehsaz, F. Esmaili, M.J. Razavi, "Numerical Analysis of effect of Adhesive Thickness in Hybrid Single-Lap Joint", 9th International Conference of Iranian Aerospace Association (IAS 2009) Tehran, Iran, 8-10 February, 2010.
- x M.J. Razavi, T.N. Chakherlou, "Experimental and Numerical Investigation About Wear Phenomenon in The Aluminum Bolted Double Shear Lap Joint in Fatigue Loading", 1st International Conference of Iranian Aerospace Association (IAS 2011) Tehran, Iran, 1-3 March 2011.
- x M.J. Razavi, T.N. Chakherlou, H. Nassefi, "Experimental and Numerical Investigation About Effect of Lubrication on the fatigue Behaviour of bolted double shear lap joint in fatigue Loading", 1st Annual (International) Conference on Mechanical Engineering ISME2011, Birjand, Iran, 10-12 May, 2011.
- x M.J. Razavi, G. Hashemi, T.N. Chakherlou, "Experimental Fatigue Life Improvement of Double Shear Lap Bolted Joints in Aerospace Structures", 1st National Congress Aging of Aircraft, Tehran, Sharif University of Technology, 5-7 July, 2011.