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### Educational Background

- PhD student, Mechanical Engineering, College of Engineering, **University of Georgia**, Athens, Georgia, USA
- 2006-2009 Master of science (M.Sc) in Mechanical Engineering, Mechanics of Solids, **University of Tabriz**, Tabriz, Iran.
- 2001-2005 Bachelor of Science (B.Sc) in Mechanical Engineering, Mechanics of Solids, **University of Tabriz**, Tabriz, Iran.

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### Research Interests

- Solid mechanics, Biomechanics, Soft Matter, Growth of Biological tissues, FEM, Fracture and Fatigue.

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### Publications

#### *Journal Papers*

- **M.J. Razavi**, T. Zhang, H. Chen, S. Platt, Y. Zhao, L. Guo, X. Hu, X. Wang and T. Liu, “*Radial Structure Regulates the Convolution Patterns of Developing Cerebral Cortex*”, **Cerebral Cortex**, under second review after revision.
- **M.J. Razavi**, T. Zhang, T. Liu, X. Wang, “*Cortical Folding Pattern and its Consistency Induced by Biological Growth*”, **Scientific Reports**, under second review after revision.
- **M.J. Razavi**, X. Wang, “*Morphological patterns of a growing biological tube in a confined environment with contacting boundary*”, **RSC Advances**, **2015**, 5 (10), 7440-7449.
- T.N. Chakherlou, **M.J. Razavi**, B. Abazadeh, “*A numerical investigation of the bolt clamping force and friction coefficient effect on the fatigue behaviour of aluminum alloy 2024-T3 double shear lap joint*”, **Engineering Failure Analysis**, **2013**, 29, pg. 62-74.
- Chakherlou, T.N., **Razavi, M.J.**, Aghdam, A.B., “*On the variation of clamping force in bolted double lap joints subjected to longitudinal loading: A numerical and experimental investigation*”, **Strain: An International Journal for Experimental Mechanics**, **2012**, 48 (1), pg. 21-29.
- T.N. Chakherlou, **M.J. Razavi**, A.B. Aghdam, B. Abazadeh, “*An experimental investigation of the bolt clamping force and friction effect on the fatigue behaviour of aluminum alloy 2024-T3 double shear lap joint*”, **Materials & Design**, **2011**, 32 (8-9), pg. 4641-4649.
- M.R. Khoshrovan, A. Khalili, **M.J. Razavi**, “*Numerical Analysis of the Effect of Added hole on the Stress Concentration of a Perforated Plate and Determining of Its Optimum Location*”, **Key Engineering Materials**, Vols. 452-453, Advances in Fracture and Damage Mechanics IX, **2011**. Pg. 793-796.

## Conference Papers

- **Mir Jalil razavi**, T. Zhang, R. Romeo, T. Liu, X. Wang, "Investigation of Mechanical Parameters Role on the Morphogenesis of Cortical Folding", USNCCM 2015, 26-30 July, San Diego, USA.
- X. Wang, **Mir Jalil Razavi**, T. Zhang, T. Liu, "Computational Study of Cortical Convolution Patterns in a Developing Brain", USNCCM 2015, 26-30 July, San Diego, USA.
- **Mir Jalil Razavi**, Xianqiao Wang, "Growth and instability of soft tissue in confined environment", SES 2014, 1-3<sup>rd</sup> October, Purdue University, Indiana, USA.
- Chakherlou, T.N., **Razavi, M.J.**, Esmaili, F., "Effect of Bolt Clamping Force in Hybrid Single-Lap Joint Using Finite Element Method", 17<sup>th</sup> Annual(International) Conference on Mechanical Engineering ISME2009, Tehran, Iran, 19-21 May, 2009.
- Chakherlou, T.N., **Razavi, M.J.**, Seyyed fakhrebadi, M.M., "Elastic-Plastic Analysis of Nozzles in Pressure Vessels", 17<sup>th</sup> Annual (International) Conference on Mechanical Engineering ISME2009, Tehran, Iran, 19-21 May, 2009.
- Chakherlou, T.N., **Razavi, M.J.**, Esmaili, F., "Investigation of Adhesive Thickness Effect in Hybrid Double-Lap Joint Using Finite Element Method", 8<sup>th</sup> International Conference of Iranian Aerospace Association (IAS2009) Isfahan, Iran, 17-19 February, 2009.
- Zehsaz, M., Esmaili, F., **Razavi, M.J.**, "Effect of Hole Diameter in Fatigue Life of 7075-T6 Aluminum Alloy Plates Using Volumetric Approach", 8<sup>th</sup> International Conference of Iranian Aerospace Association (IAS 2009) Isfahan, Iran, 17-19 February, 2009.
- Zehsaz, M., Esmaili, F., **Razavi, M.J.**, "Numerical Analysis of effect of Adhesive Thickness in Hybrid Single-Lap Joint", 9<sup>th</sup> International Conference of Iranian Aerospace Association (IAS 2009) Tehran, Iran, 8-10 February, 2010.
- **Razavi, M.J.**, Chakherlou, T.N., "Experimental and Numerical Investigation About Wear Phenomenon in The Aluminum Bolted Double Shear Lap Joint in Fatigue Loading", 9<sup>th</sup> International Conference of Iranian Aerospace Association (IAS 2011), Tehran, Iran, 1-3 March 2011.
- **Razavi, M.J.**, Chakherlou, T.N., Nasserli, H., "Experimental and Numerical Investigation About Effect of Lubrication on the fatigue Behaviour of bolted double shear lap joint in fatigue Loading", 19<sup>th</sup> Annual (International) Conference on Mechanical Engineering ISME2011, Birjand, Iran, 10-12 May, 2011.
- **Razavi, M.J.**, Hashemi, G., Chakherlou, T.N., "Experimental Fatigue Life Improvement of Double Shear Lap Bolted Joints in Aerospace Structures ", 1th National Congress Aging of Aircraft, Tehran, Sharif University of Technology, 5-7 July, 2011.

## Working Experience

- Manager, **Tabriz Engineering Research Center** (Design Group), Tabriz, Iran, Nov2007- June2011

## References

- **Xianqiao Wang**, Assistant professor, College of Engineering, University of Georgia, Athens, Georgia, USA. [xqwang@uga.edu](mailto:xqwang@uga.edu)
- **Tianming Liu**, Professor, Compure Science Department, University of Georgia, Athens, Georgia, USA, [tliu@cs.uga.edu](mailto:tliu@cs.uga.edu)
- **Tajbakhsh, N. Chakherlou**, Professor, Mechanical Engineering Department, University of Tabriz, Tabriz, Iran. [tnavid@tabrizu.ac.ir](mailto:tnavid@tabrizu.ac.ir)

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