

Mohammadjavad Eslamian

Research Assistant (2017-present)
Biomedical Engineering Department
University of Houston, USA

Date of Birth: May 27, 1990
Marital status: Married
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Educational Background

➤ **PhD Student** in Materials Science and Engineering Department (2014-2016)

Supervisor: Prof. Reza Bagheri.

Address: Polymeric Materials Research Group (**PMRG**), Sharif University of Technology (**SUT**), Tehran, Iran.

➤ **M.Sc.** in Materials Science and Engineering, (2012-2014).

GPA: 17.34/20

Thesis Title: **Study the Effect of Components Ratio on Microstructure and Mechanical Properties of Polyethylene Ternary Blend (HDPE/LLDPE/LDPE)**

Supervisor: Prof. Reza Bagheri.

Address: Polymeric Materials Research Group (**PMRG**), Sharif University of Technology (**SUT**), Tehran, Iran.

➤ **B.Sc.** in Materials Engineering, (2008-2012).

GPA: 16.82/20

Thesis title: **Study of Solar Cells Contain Carbon Nanotubes**

Supervisor: Dr. Alireza Mashreghi.

Address: Yazd University, Yazd, Iran.

Awards & Honors

➤ **Ranked 2nd** in Materials Engineering Department among 35 Undergraduate Students (2012).

➤ **Ranked 5th** in the National University Entrance Exam (M.Sc. Exam) among 5398 candidates (2012).

Publications

➤ **M. Eslamian**; R. Bagheri; G. Pircheraghi, "**Revealing the Nano-size Crystalline Lamellae in Bulk Semi-Crystalline Polyethylene: Optimization of Etching Parameters**", the 6th International Conference on Nanostructures, Kish Island, Iran, March 2016.

➤ **M. Eslamian**; R. Bagheri; G. Pircheraghi, "**Co-Crystallization in Ternary Polyethylene Blends: Tie-Crystal Formation and Mechanical Properties Improvement**", *Polymer International*, Version of Record online: 21 July 2016, DOI: 10.1002/pi.5191.

➤ F. Mirab; **M. Eslamian**; R. Bagheri, "**Fabrication and Characterization of a Novel Starch-Based Nanocomposite Scaffold with Highly Porous and Gradient Structure for Bone Tissue Engineering**" (Submitted to *Carbohydrate Polymers*, January 2017).

- Kh. Khederlou; **M. Eslamian**; A. Shojaei; R. Bagheri, “*Crystal and Morphology Development in Immiscible Nonpolar Polymer Blend Based on Low Density Polyethylene and Linear Low Density Polyethylene in Presence of Clay and Compatibilizer*” (On Hold)
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Educational Experience

- Presenting a workshop on “Physical characterization of polymeric materials by SAXS, WAXS, DSC, and FE-SEM methods”, PMRG, SUT (Summer 2016)
 - Teaching Assistant at SUT in the Courses of:
 - Principles of Polymer Engineering (Fall 2015)
 - Characterization Methods of Materials (Spring 2015)
 - Materials Science (Spring 2015)
 - Composites (Spring 2015)
 - Research Assistant in Polymeric Materials Research Lab, SUT (2014-2016)
 - Temperature monitoring of the HAZ zone during welding using Programmable Logic Controller (PLC), Yazd University (2011)
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Selected Graduate Courses

- Advanced Polymers, Prof. Reza Bagheri (1st Rank)
 - Polymeric-based Nano-composites, Prof. Reza Bagheri (2nd Rank)
 - Advanced Mechanical Properties of Materials, Prof. Reza Bagheri
 - Biocompatibility, Prof. M. Shokrgozar
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Research Interests

- Structure- Properties Relationship of Polymeric Materials
 - Advanced Regenerative Biomaterials and Therapeutics for Neural Interfaces
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Certificates

- Course Certificate: Programmable Logic Controller (PLC), the Vocational Organization, Iran (2010)
 - Attendance Certificate: Workshop on Principles and Applications of Electron Microscopes, SUT, Iran (2012)
 - Course Certificate: ANSYS Software, PMRG, SUT, Iran (2014)
 - Attendance Certificate: 3rd PAM International School on Application of Nanomaterials in Medicine, Sharif University of Technology (2-4 November 2016)
 - Course Certificate: General Lab Safety, University of Houston, USA (2017)
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Computer Skills

- Programming Language: C
 - Software: ANSYS, X'pert HighScore, ATASAS, Photoshop, Microsoft Office
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References

- **Prof. Reza Bagheri**, Department of Materials Science and Engineering, SUT, Iran
Email: rezabagh@sharif.edu
- **Dr. Gholamreza Pircheraghi**, Department of Materials Science and Engineering, SUT, Iran
Email: pircheraghi@sharif.ir