AMIN MOHAJERI

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EDUCATION / SCIENTIFIC TRAINING

2019 – Present	**Ph.D. Student in Kinesiology** – Exercise Physiology Texas A&M University – College Station, TX. *Mentor*: Dr. John M. Lawler
2017 – 2019	**M.Sc. in Biomedical Engineering** – Biotechnology and Systems Biology University of Michigan – Ann Arbor, MI.
2016 – 2016	**Cert. in Biomedical Engineering Training** University of the District of Columbia – Washington, DC.
2013 – 2015	**M.Sc. in Chemical Engineering** – Process Engineering Tarbiat Modares University – Tehran, Iran. *Mentor*: Dr. Mohsen Vafaei-Sefti *Thesis*: The study of PPG performance on enhanced oil recovery.
2006 – 2012	**B.Sc. in Chemical Engineering** – Petroleum Industry Process Design Azad University – Tehran, Iran.

EXPERIENCE

2019 – Present	**Research Assistant** – Redox Biology and Cell Signaling Lab Texas A&M University – College Station, TX. *Project*: Redox regulation of nNOS translocation and muscle atrophy during mechanical unloading
2019 – 2019	**Research Assistant** – Molecular and Cellular Systems Lab University of Michigan – Ann Arbor, MI. *Project:* The encapsulation of actin proteins through microfluidic double-emulsion and droplet stabilized giant unilamellar techniques.
2018 – 2019	**Research Assistant** – Systems Biotechnology Lab University of Michigan – Ann Arbor, MI. *Project 1:* L-glutamic acid producing synthetic fungal–bacterial consortium of *T. reesei* and *C. glutamicum*. *Project 2:* A synthetic bacteriophage sensor system for detecting and chronically memorizing the extracellular chemical signals.
2017 – 2018	**Lab Assistant** – Baldridge Lab University of Michigan – Ann Arbor, MI.

2013 – 2016	**Research Assistant -** Enhanced Oil Recovery Lab Tarbiat Modares University – Tehran, Iran. *Project 1:* The development of a novel water shut off test method for various polymer gel types through using a three–dimensional oil reservoir simulator with radial flow and selective porous media. *Project 2:* The evaluation of solution polymerization technique in the preparation of preformed particle gels. *Project 3:* The determination of silica gel performance on water shut off.

AWARDS

2020	**Human Research Program. NASA.** $30,000 *Title*: Intervention with Statin and Catalytic Antioxidant to Mitigate Oxidative Stress and Fibrosis in Heart and Skeletal Muscle when Microgravity and Radiation are Combined

PEER-REVIEWD PAPERS

2020	Lawler J., Botchlett R., Woo S. L., Li H., Hord J., Fluckey J., **Mohajeri A.**, Moustafa, K., and Wu C. Metformin-sensitive Effects of a High Fat Diet on Skeletal Muscle Morphology and Sarcolemmal Protein Signaling in Young Mice. Applied Physiology, Nutrition, and Metabolism. *In Progress*
2015	Hajilary N., Vafaie Sefti M., Shahmohammadi A., Dadvand Koohi A., and **Mohajeri A**. Development of a Novel Water Shut off Test Method: Experimental Study of Polymer Gel in Porous Media with Radial Flow. Canadian Journal of Chemical Engineering, 9999, October 2015.

REFEREED CONFERENCES

2016	Heidari A., Vafaie Sefti M., Vasheghani E., **Mohajeri A.**, and Safarian A. Preparation of Preformed Particle Gel by Solution Polymerization Method. The 19th Iranian Physical Chemistry Conference, University of Guilan, Rasht, Iran, September 2016.
2016	Heidari A., Vafaie Sefti, M., and **Mohajeri A**. Performance of Silica Gels on Control of the Water Production in Oil Fields. Third National and First International Conference in Applied Research on Chemistry & Chemical Engineering, University of Tehran, Tehran, Iran, April 2016.
2015	**Mohajeri A.**, Vafaie Sefti M., and Heidari A. Study on Performance of Preformed Particle Gels (PPG) on Radial Flows. The 1st National Conference on Oil and Gas Fields Development, Sharif University of Technology, Tehran, Iran, January 2015.
2014	**Mohajeri A.**, Vafaie Sefti M., and Heidari A. A Brief Study on the Swelling Rate of Particle Gels in Different Temperatures. Shahid Bahonar University, Kerman, Iran, 15-16 October 2014.