TEXAS STATE VITA

I. ACADEMIC / PROFESSIONAL BACKGROUND

A. Name: Maedeh Dabbaghianamiri Title: Lecture

B. Educational Background

Degree	Year	University	Major	GPA	Thesis/Dissertation
Doctorate	2015 - 2017	Texas State University, San Marcos	Materials Science, Engineering, and Commercialization	4.0	Polymer/clay nanocomposite self-assembly for gas barrier films application
Master's	2012 - 2014	Texas State University, San Marcos	Industrial Technology (Concentration: Manufacturing).	4.0	An Agent-based model for supplier selection in Digital Manufacturing Market
Bachelor's	2005 - 2009	Mazandaran University of Science and Technology	Industrial Engineering Concentration: Systems Analysis	3.2	Management information systems of a law office (MIS) city of Babol

C. University Experience

Position	University	Dates
Lecturer	Texas State University	Spring 2018-present
Postdoctoral Research Associate	Texas State University - Chemistry Department	Feb-Sep 2018
Research Associate and Trainer	Texas state university - Advanced polymer processing lab	May-December 2017
Teaching Assistant	Texas State University - Engineering Department	Spring 2015, Fall 2015
Teaching Assistant	Texas state University- Technology Department	Fall 2014

D. Relevant Professional Experience

Position	Entity	Dates
Consultant	Nabaco Inc	July 2016-present
Intern	Freezing Modern Industrial Company	summer2009

E. Other Professional Credentials (licensure, certification, etc.)

Certified Lean Six Sigma Green Belt Certification, Institute of Industrial and Systems Engineers, October 2021

Certified Occupational Safety and Health Standards for General Industry, OSHA Safety Training Institute, June 2021
Certified Mastering SQF, Edition 9, (safety Quality for food), Registrar Corp Food Safety Training, September 2021

Certified Teaching online, Summer 2020
Certified Six Sigma -Yellow Belt- Six Sigma.us, Austin, 2014

Certified SAS- macro programing Language- SAS Institute Inc, Austin ,2014

Writing Business Plan and SBIR Proposals
Project Management: Product Design and Development, Enterprise Resource Planning(ERP), System Analysis and Design, Layout Planning and Simulation
Programming: Pascal, C#, HTML (Web Page Design), Java script, Java, SAS, R
Software: Minitab, Auto CAD, Catia, Lingo, Arena, primavera (p3), Protage, Simio, Design-Expert, Creo, Any Logic, Microsoft SQL Server , ERP SAP, Microsoft Project, Visio, Win QSP
Manufacturing: Injection molding, Extrusion, inkjet 3D Printing, extruder, Palletizer, tensile tester
Instruments: Scanning Electron Microscope (SEM), Transmission electron microscopy (TEM), Atomic-force microscopy (AFM), X-Ray Diffraction (XRD), profilometer, UV-VIS spectrometer, DLS (Dynamic Light Scattering), TGA (Thermal Gravimetric Analysis), DSC (Differential Scanning Calorimetry), Dynamic Mechanical Analysis (DMA), Oxygen Transmission

II. TEACHING

A. Courses Taught:

	Courses	Semester
TECH 4392	Micro and Nano Manufacturing	Spring 2019, Fall 2019
TECH 3354	Lean system principle	Spring 2019, Fall 2019, Spring 2020, Spring 2021
TECH 3364	Quality Assurance	Spring 2019, Fall 2019, Spring 2020, Fall 2021, spring 2021
TECH 4380	Industrial safety	Summer 2019, Fall 2019, Fall 2021, Spring 2021
TECH 5387	Advanced Facilities Planning	Spring 2019, Spring 2020, spring 2021
TECH 3357	Facilities Planning	Spring 2019, Spring 2020, Spring 2021
TECH 1311	Engineering Graphic Design	Fall 2021

III. SCHOLARLY/CREATIVE

A. Works in Print

1. Patents

- 1) US Patent Pending: Molecularly Self-assembling Nanocomposite Barrier Coating for Gas Barrier Application and Flame Redundancy, Gary W. Beall, Ray Cook, **Maedeh D. Amiri**, 2018

2. Articles

a. Refereed Journal Articles:

1. "Self-assembled Montmorillonite clay-poly vinyl alcohol nanocomposite as a safe and efficient gas barrier" **Maedeh D.Amiri,** El-shazly M. Duraia, and Gary W. Beall, Results in Materials, 7, 2020.
2. "Self-Assembling Nanostructured Intercalates Via Ion-Dipole Bonding" **Maedeh D. Amiri**, and Gary Beall, Dalton Transactions, 2018.
3. "Formation of Periodic Size-Segregated Stripe Pattern via Directed Self-assembly of Binary Colloids and Its Mechanism" Sayantan Das, El-Shazly M.Duraia, Orlin D.Velev, **Maedeh D.Amiri,** and Gary W.Beall, Applied surface science, 2018
4. "Improvement Approach for Gas Barrier Behavior of Polymer/Clay Nanocomposite Films" **Maedeh D. Amiri**, Sayantan Das, and Gary Beall, Advances MRS, 2017.
5. "Agent-based Simulation and Modeling for Service Allocation in the Digital Manufacturing Market", **Maedeh D. Amiri**, Farhad Ameri, and Jesus Jimenez, International Journal of Agent Technologies and Systems (IJATS), Volume 7, Issue 2, 2015.
6. "An Agent-based Model for Supplier Selection in Digital Manufacturing Market", **Maedeh D. Amiri**, Farhad Ameri, and Jesus Jimenez, Preceding of Third Annual World Conference of the Society for Industrial and System Engineering (SISE), 2014.
7. "An Improved Measurement Algorithm for Increasing the Accuracy of Sing-Around Type Ultrasonic Flow Meters", J. R. Gatabi, I. R. Gatabi, M. Soltani, P. Mohammadi, **Maedeh D.Amiri,** S. Ebrahimi, Mechanika, 2012 Volume 18(2): 209-2133-
8. "A Novel Property of the Conservative Vector Fields", I. R. Gatabi, **Maedeh D.Amiri**, Mohammad Soltani, PooriaMohammadi, J. R. Gatabi, European Journal of Scientific Research, Vol. 52 Issue 3(2011).

b. Conference Proceedings

"An Agent-based Model for Supplier Selection in Digital Manufacturing Market", **Maedeh D. Amiri**, Farhad Ameri, and Jesus Jimenez, Preceding of Third Annual World Conference of the Society for Industrial and System Engineering (SISE), San Antonio,2014

1. Papers Presented at Professional Meetings:

"Improvement Approach for Gas Barrier Behavior of Polymer/Clay Nanocomposite Films "Maedeh **D. Amiri**, Sayantan Das, and Gary Beall, MRS Spring Meeting & Exhibit, Phoenix, Arizona, April 2017.

2. Invited Talks, Lectures, and Presentations:

"Improvement Approach for Gas Barrier Behavior of Polymer/Clay Nanocomposite Films "Maedeh **D. Amiri**, Sayantan Das, and Gary Beall, MRS Spring Meeting & Exhibit, Phoenix, Arizona, April 2017.

"Polymer/Clay Nanocomposite Self–Assembly Approach for Gas Barrier Film Applications "**Maedeh D. Amiri**, Caleb Martin, and Gary Beall,MRS Spring Meeting & Exhibit, Phoenix, Arizona, March 30, 2016.

"An Investigation on the Effects of the Metal Surface Coating Factors on the Mechanical Properties of the Parts Fabricated by the Fully Dense Freeform Fabrication Process", Bahram Asiabanpour, Abbas Fahami, Aron Zamora, and **Maedeh D. Amiri,** Seventh Annual International Research Conference for Graduate Students, San Marcos, November 17, 2015.

"An Agent-based Model for Supplier Selection in Digital Manufacturing Market", **Maedeh D. Amiri,** Farhad Ameri, and Jesus Jimenez, the Society for Industrial and System Engineering (SISE), San Antonio, 2014.

b. Fellowships, Awards, Honors:

- Rice Business Plan competition, Houston, 2019
  - NASA best invention for space exploration award, $75,000
  - Best of Texas award, $25,000, awarded from the Texas Business Hall of Fame
  - 4th place in the elevator pitch contest, $2,500 award
- New Ventures competition, American University of Sharsa, Dubai, 2019, won $8,000 award
- New Venture competition, Temple, TX, 2019, won $10,000 first prize
- New Venture competition, Texas State University, 2018, won one of three $20,000 prizes
- Student Government Scholarship, Texas State University, 2017
- Graduate College Scholarship, Texas State University, 2017
- Dissertation Support Fellowship Award, Graduate College, Texas State University, 2017
- Women in Science and Engineering scholarship, College of Science, Texas State University, 2015
- Outstanding Researcher Awarded, Department of Engineering Technology, Texas State University, 2014

IV. SERVICE

Conference Judge:

- International Research Conference for Graduate Students, College of Science, Texas State University, 2021
- WISE (Women in Science), College of Science, Texas State University, 2020

Committee Member:

- Sarah Hutcheson Major in Chemistry, December 2021, " MECHANICAL PROPERTIES OF POLYMER-CLAY NANOCOMPOSITE THIN FILMS **"**

IISE (Institute of Industrial and Systems Engineers) Member, 880244334, 2021

Alpha Chi National College Honor Society, member, Texas State University, 2017

Conference Paper Reviewer:

- **Technical Reviewer**, MRS Advances, May 2016-present