

# Sajjad Hajian

Electronic Engineering PhD student  
(U.S. permanent resident)

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## OBJECTIVE

Self-motivated Electronic Engineering PhD student (last year) with **Machine Learning, programming, and data analysis** skills, seeking a summer internship in Machine Learning or Data Science. Highly interested in solving real-world business problems in Artificial Intelligence (AI) field.

## SKILLS

- **Machine Learning and Deep Learning:** Linear Regression, Logistic Regression, Support Vector Machine (SVM), Artificial Neural Network (ANN).
- **Computer:** Python, SQL, MATLAB, C++, Jupyter Notebook, Scikit-learn, NumPy, Pandas, Matplotlib, Tableau.
- **Data Analysis:** Data pre-processing, Data Cleaning, Data Visualization.
- **Electronics:** Sensors and Electronic Devices, Nanomaterials, Electrical Characterizations, Printed / Flexible / Wearable Electronics, Microcontrollers.
- **Interpersonal skills:** Teamwork, Communication skills, Time management, Problem-solving, Instructing, Presenting.

## CERTIFICATE

April 2022

**Machine Learning with Python** (in progress), Coursera, offered by IBM

Expected date of completion: April 2022

Skills gaining: **Python Libraries** and supervised / unsupervised Machine Learning Algorithms (**Regression, Classification, Clustering, and Recommender Systems**)

## WORK EXPERIENCE

2018 – present

### Graduate Student Research Assistant

Western Michigan University, Kalamazoo, MI

- Employing Machine Learning techniques for analyzing sensor data to minimize hysteresis, drift, and other unwanted effects.
- Writing MATLAB codes for electrical signal generation, data acquisition, real-time data processing, and visualization.
- Data processing, visualization, and fitting using MATLAB, Excel, and Minitab, for sensor data analysis.
- Published 19 articles in Q1 journals and conferences ([link](#)) and submitted two Intellectual Property (IP) disclosures.
- Served as Reviewer for Q1 journals and conferences (ACS, Elsevier, IEEE).
- Designed, fabricated, and characterized novel flexible sensors for **Boeing Company**, which improved my Problem-solving and Teamwork skills.
- Designed, fabricated, and characterized electromagnetic interference (EMI) shielding films for the **U.S. Department of Defense**, leading to an **IP disclosure**.

2018 – present

### Graduate Student Teaching Assistant / Tutor / Grader

Western Michigan University, Kalamazoo, MI

- Worked with **500+ students** from different majors, including 2000+ hours of teaching experience, which improved my Time management, Instructing, Presenting, and Communication skills.

## EDUCATION

2018 – 2022 PhD, Electronic Engineering, Western Michigan University, Kalamazoo, USA.  
Sep 2013 Master's degree, Electronic Engineering, University of Tehran, Tehran, Iran.  
Sep 2010 Bachelor's degree, Electrical Engineering, Shiraz University, Shiraz, Iran.

## INVENTIONS

2022 M. Z. Atashbar, S. Hajian, X. Zhang, and B. B. Narakathu, "MXene-Based E-textile Deposition Method and Textile Sensing Applications," Western Michigan University, **Intellectual Property disclosure**.

2021 M. Z. Atashbar, D. Maddipatla, S. Masihi, S. Hajian, X. Zhang, B. B. Narakathu, A. J. Hanson, "Highly Conductive Graphene-Based Composite Inks," Western Michigan University, **Intellectual Property disclosure**.