

# Mehdi Nourelahi

📍 Laramie, WY, USA ✉ mnourela@uwyo.edu ☎ +1 307 761 1277 🔍 google scholar in LinkedIn

## Education

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### Ph.D. in Computer Science

*University of Wyoming*

08/2019 – present | Laramie, USA

### M.Sc. in Biomedical Engineering

*Shiraz University of Medical Sciences*

2018 | Shiraz, Iran

### B.Sc. in Electrical Engineering

*Babol Noshirvani University of Technology*

2015 | Babol, Iran

## Research Interests

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Computer vision

Machine learning

Neural networks

Explainability in AI

Adversarial robustness

Data Science

## Professional Experience

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### Research Assistant

*University of Wyoming*

Researcher at mallet lab working on using explainability methods to build robust models

08/2019 – present

Laramie, USA

### Machine learning research intern

*Bosch*

Research scientist working on robust models in computer vision domain

05/2022 – 08/2022

Pittsburgh, US

### Mentor

*University of Wyoming*

Trained rural Wyoming high school teachers in computer science research applications

06/2021 – 08/2021

Laramie, USA

### Research Intern

*The US National Center for Atmospheric Research (NCAR)*

Worked as an artificial intelligence specialist for studying sun's state of polarization

05/2020 – 08/2020

Boulder, USA

### Research Assistant

*Shiraz University of Medical Sciences*

worked with the Bioengineering and Biostatistics department on multiple projects.

2016 – 2019

Shiraz, Iran

## Publications

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### How explainable are adversarially-robust CNNs?

*arXiv*

M Nourelahi, L Kotthoff, P Chen, A Nguyen

### A Model to Predict Breast Cancer Survivability Using Logistic Regression

*Middle East Journal of Cancer 10 (2), 132-138*

Authors: M Nourelahi, A Zamani, A Talei, S Tahmasebi

### Evaluation of Twenty Genes in Prognosis of Patients with Ovarian Cancer Using Four Different Clustering Methods

*Asian Pacific Journal of Cancer Prevention*

Authors: S Pourahmad, S Foroozani, M Nourelahi

### A machine learning model for predicting favorable outcome in severe traumatic brain injury patients after 6 months

*Acute and critical care*

Authors: M Nourelahi, F Dadboud, H Parsaei

## Research Projects

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- Using explainability methods for regularizing deep neural network** 08/2019 – present  
*University of Wyoming(PhD Thesis)*
- Using machine learning to find a mapping between states of polarization and atmospheric model variables** 2020  
*High Altitude Observatory, National Center for Atmospheric Research, Boulder, CO, USA*  
(Summer Internship)
- Investigating the possibility of predicting breast cancer survivability using machine learning** 2018  
*Department of Medical Physics and Engineering, Shiraz University of Medical Sciences, Shiraz, Iran*  
(Master Thesis Research)

## Skills

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### Software

*SPSS, Weka, vim, git*

### Programming

*Python (PyTorch, NumPy, Pandas, Scikit-learn), Matlab, C/C++, R, JavaScript*

### Operating System

*Linux Based, Windows, MacOS, Android*

### Typesetting

*LATEX, Microsoft Office*

### Cluster Batch Systems

*SLURM, PBS*

## Honors and Awards

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### Scholarship Recipient, AAAI Conference

2020

### Ranked in the top 1% in the National Universities Entrance Exam, M.A. degree in philosophy-logic, Iran

2016

### Ranked in top 0.5% in the National Universities Entrance Exam, M.Sc. degree, Iran

2015