

# Amir Shirian

Machine Learning Researcher



## Profile

Machine Learning engineer with 3+ years of experience solving real-world problems with machine learning approaches. I also have 6+ years of academia researching and proposing new methods, mentoring undergrad students, and collaborating with big companies.

## Contact

### Address:

Department of Computer Science, University of Warwick, CV4 7AL

### Phone:

+44 (0) 7513562092

### Email:

[amirdonte15@gmail.com](mailto:amirdonte15@gmail.com)

[Portfolio](#)

[GitHub](#)

[LinkedIn](#)

## Work Experience

### Machine Learning Intern

DeepMirror

2021

Providing graph solutions for data scarcity cases in the biomedical data (images, molecules, RNA/DNA, and antibody)

### Machine Learning Intern

Intel AI lab

2020

Designing Learnable Graph Inception Network for Audio Representation Learning

### Machine learning Engineer

Aramed Co.

2018

Designing and implementing 3D foot Scanner to make foot orthosis for people with foot deficiencies

### Head Member of R&D Group

Soha Co.

2016-2017

Designing and implementing home automation systems based on IOT  
Designing and implementing Smart Passport Reader based on OCR

## Education

### PhD in Computer Science

University of Warwick

2019-Present

Warwick Computer Science PhD students scholarship

### M.Sc. in Electrical Engineering

University of Tehran

2015-2018

Ranked in top 10% exceptional students

## Academic Achievements

- Smart Grant 2022 Approved by UKRI
- ICME Reviewer in 2020-2022
- Elected Reviewer at First [Graph ML Conference](#)
- Part of the Doctoral Consortium at ICMI 2022
- Reviewer of Science Publishing Group, ML

## Selected Publications

**Shirian, Amir**, Somandepalli, K., Sanchez, V., Guha, T. "[Visually-aware Acoustic Event Detection using Heterogeneous Graphs](#)" Interspeech (2022).

Ahmadian, M., Rahmani, S., **Shirian, Amir**. "Future Image Prediction of Plantar Pressure During Gait Using Spatio-temporal Transformer" IEEE EMBC (2022).

**Shirian, Amir**, Somandepalli, K., and Guha, T. "[Self-Supervised Graphs for Audio Representation Learning with Limited Labeled Data](#)." IEEE Journal of Selected Topics in Signal Processing (2022).

Ahmadian, M, TH. Beheshti, M., Kalhor, A., **Shirian, Amir**. "[Unsupervised Generative Adversarial Network for Plantar Pressure Image-to-Image Translation](#)." IEEE EMBC (2021).

**Shirian, Amir**, Subarna T., and Guha, T. "[Dynamic Emotion Modeling with Learnable Graphs and Graph Inception Network](#)." IEEE Transactions on Multimedia (2021).

**Shirian, Amir**, and Guha, T. "[Compact Graph Architecture for Speech Emotion Recognition](#)." ICASSP (2021).