

# Sonny Mousavi

## Curriculum Vitae

School of Computing & Augmented Intelligence  
Arizona State University  
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🌐 My Webpage  
🐙 Github   in LinkedIn

### Education

- 2023–present **PhD, Computer Science**, Arizona State University, Tempe, Arizona.  
Implicit Neural Representation, Graph Neural Networks, Diffusion & PDE based Neural Networks, Deep Learning & Machine Learning
- 2018–2023 : **Bachelor of Science, Computer Science & Engineering**, Isfahan University of Technology, Isfahan, Iran.  
(GPA: 3.88)

### Publications

#### Poster Presentations

- 2022 **Sports Match Outcome Prediction with Spatio-Temporal Graph Representation Learning**, Abdolreza Mirzaei , Oliver Schulte, Mohammad Bahrami, **Masoud Mousavi**, The Cascadia Symposium on Statistics in Sports, Vancouver, Canada, September 24, 2022.  
(Web-page)

### Work Experience

- Summer 2024 **Applied Scientist-Intern**, Zillow, Inc., Remote (Tempe, Arizona).

### Research Assistantships

#### ASU DML Lab., Arizona State University, Tempe, Arizona

August, **Deep Learning**.

2023–Present Working on developing Deep Learning algorithms for graph data

Advisor: **Dr. Kookjin Lee**, Assistant Professor, School of Computing and Augmented Intelligence, Arizona State University (*Personal Web-page*)

#### Data & Knowledge Research (DKR) Lab., IUT, Iran

2022–2023 **Drug Repurposing with Knowledge Graphs**.

Proposed an approach for expanding the indications of existing drugs with knowledge graph link prediction and GNNs (Github)

Advisor: **Dr. Nasser Ghadiri**, Associate Professor, Department of Electrical & Computer Engineering, Isfahan University of Technology (*Personal Web-page*)

#### Pattern Recognition and Soft Computing (PRSC) Lab., IUT, Iran

2021–2022 **Sports Match Outcome Prediction with Spatio-Temporal Graphs**.

Designed and implemented a spatio-temporal graph representation model for teams and players in soccer and developed a GNN-based approach to predicting the outcome of sports matches (Github)

Advisor: **Dr. Abdolreza Mirzaei**, Assistant Professor, Department of Electrical & Computer Engineering, Isfahan University of Technology (*Personal Web-page*)

## Research Interests

- Deep Learning
- Natural Language Processing
- Data Science
- Machine Learning
- Computer Vision
- Artificial Intelligence

## Projects

Spatiotemporal modeling of soccer match prediction (Github)  
Graph Classification with Implicit Neural Representation of node signals (Github)  
A data science methodology to soccer match outcome prediction (Github)  
Link prediction framework for knowledge graphs (Github)  
Transfer learning for image classification (Github)  
Handwritten digit recognition with neural networks (Github)  
Fake news detection with BERT (Github)  
A genetic approach for the N-Queen problem (Github)  
A database for the NBA (Github)  
Python based packet sniffer (Github)

## Computer skills

Programming Python, C, C++, Javascript  
ML PyTorch, scikit-learn  
Other SQL, Linux

## Referee

**Dr. Kookjin Lee**

*Assistant Professor, School of  
Computing & Augmented Intelligence*

Arizona State University

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