

Sonny Mousavi

Curriculum Vitae

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

Education

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

Publications

- 2024 **CFRecs: Counterfactual Recommendations on User Listing Interaction Graphs**, (*Submitted to KDD 2025 ADS Track*), **SeyedMasoud Mousavi**, Ruomeng Xu, Xiaojing Zhu.
[Symposiums](#)
- 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

- June 2024–December 2024 **Applied Scientist-Intern**, *Zillow, Inc.*, Remote (Tempe, Arizona).

Teaching Assistantships

[CSE 423 and CSE 485: Systems Capstone Project I](#)

- Fall, 2024 **Instructor**.

Research Assistantships

[Biocomputing Group, Arizona State University, Tempe, Arizona](#)

- January, 2024 **Deep Learning**.
- Present Developing graph based solutions to Biological data
Advisor: **Dr. Heewook Lee**, *Assistant Professor, School of Computing and Augmented Intelligence, Arizona State University* ([Personal Web-page](#))
[ASU DML Lab., Arizona State University, Tempe, Arizona](#)
- August, 2023–August, 2024 **Deep Learning**.
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

Computer skills

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