Ali Nasiri

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ACADEMIC BACKGROUND	**Ph.D. Computer Science** University of South Carolina, Columbia, SC • Ph.D. research in audio analysis using Machine Learning and Deep Learning methods under direction of Dr. Jianjun Hu.	December 2020
	M.Sc. Computer Science University of South Carolina, Columbia, SC	December 2019
	Graduate-level Courses in Computer Engineering Marmara University, Istanbul, Turkey • Transferred to University of South Carolina	2012 - 2014
	B.Sc. Computer Engineering Isfahan University of Technology, Isfahan, Iran	September 2010
TEACHING EXPERIENCE	**Lecturer and Lab Instructor** Course: General Applications Programming A course in Web Design with HTML/CSS/JavaScript Department of Computer Science and Engineering, University of South Carolina	August 2015 - Present
TECHNICAL SKILLS	**Programming Languages** Python, C/C++, C#, HTML/CSS/JavaScript, SQL, R	
	Python Frameworks Pytorch, Keras, Tensorflow, Scikit-Learn, Pandas, Numpy.	
	Website Development Django	
	Machine Learning / Deep Learning Classification, Regression, Decision Trees, Random Forest, CNN, RNN, Dense layers Regularization techniques	

PUBLICATIONS

Alireza Nasiri, Yuxin Cui, Zhonghao Liu, Jing Jin, Yong Zhao, and Jianjun Hu, **"AudioMask: Robust Sound Event Detection Using Mask R-CNN and Segment-Level Classifier,"** *2019 IEEE 31st International Conference on Tools with Artificial Intelligence (ICTAI), Portland, OR, USA, pp. 485-492, 2019.*

Alireza Nasiri, Jingjing Bao, Donald Mccleeary, Steph-Yves M. Louis, Xinyu Huang and Jianjun Hu, **"Online Damage Monitoring of SiCf-SiCm Composite Materials Using Acoustic Emission and Deep Learning,"** *in IEEE Access, vol. 7, pp. 140534-140541, 2019.*

Steph-Yves M. Louis, Alireza Nasiri, Jingjing Bao, Donald Mccleeary, Xinyu Huang and Jianjun Hu, **"Remaining Useful Strength (RUS) Prediction of SiCf-**

SiCm Composite Materials Using Deep Learning and Acoustic Emission," *Applied Sciences 10, no. 8, pp. 2076-3417, 2020.*

Zhonghao Liu, Yuxin Cui, Zheng Xiong, Alireza Nasiri, Ansi Zhang, and Jianjun Hu, **"DeepSeqPan, a novel deep convolutional neural network model for pan-specific class I HLA-peptide binding affinity prediction,"** *Scientific Reports 9, no. 1, pp. 1-10, 2019.*

Zhonghao Liu, Jing Jin, Yuxin Cui, Zheng Xiong, Alireza Nasiri, Yong Zhao, and Jianjun Hu, **"DeepSeqPanII: an interpretable recurrent neural network model with attention mechanism for peptide-HLA class II binding prediction,"** *bioRxiv: 817502, 2019.*

Jing Jin, Zhonghao Liu, Alireza Nasiri, Yuxin Cui, STEPH-YVES M Louis, Ansi Zhang, Yong Zhao, and Jianjun Hu, **"Attention mechanism-based deep learning pan-specific model for interpretable MHC-I peptide binding prediction,"** *bioRxiv: 830737, 2019.*

Yuqi Song, Joseph Lindsay, Yong Zhao, Alireza Nasiri, Steph-Yves Loius, Jie Ling, Ming Hu, and Jianjun Hu. **"Machine Learning based prediction of non-centrosymmetric crystal materials,"** *Computational Materials Science 183, p. 109792, 2020.*

Steph-Yves Louis, Yong Zhao, Alireza Nasiri, Xiran Wong, Yuqi Song, Fei Liu, and Jianjun Hu. **"Global Attention based Graph Convolutional Neural Networks for Improved Materials Property Prediction,"** *Physical Chemistry Chemical Physics, 2020.*

PROJECTS   *Design and implementation of a dynamic Website as a database for uploading materials images and properties, 2018.*

Design and implementation of a simple compiler, 2017, as Compiler Design project.

ACADEMIC SERVICES   **Reviewer**
Reviewed papers for IEEE Access and PLOS ONE journals

AWARDS   *Second place in UofSC National Big Data Health Science Conference Case Competition 2020*

LANGUAGES   Azerbaijani (Native), Farsi (Native), English (Fluent), Turkish (Fluent), Arabic (Basic)