**Education**

**University of Illinois at Urbana-Champaign** Expected : May 2023

*Bachelor of Science in Computer Science*

* **Proficient Languages:** Python (Pytorch), Java, MATLAB, C++
* **Mathematics:** Discrete Structures, Differential Equations, Abstract Linear Algebra

**Experiences**

**Iranian Journal of Science and Technology** June. 2019 – Current

*Reviewer – Springer: Transactions of Civil Engineering*

* Acted as reviewer of two (and counting) papers on applied computer vision

**Tsinghua Laboratory of Brain and Intelligence** June. 2019 – Aug. 2019

*Researcher – Dept. Computer Science Haidian, Beijing, China*

* Researched brain-inspired computing and neurologic processes through unsupervised learning
* Worked on computational biology in NLP using sparse convolutional autoencoders for feature extraction (*PyTorch*)
* Programmed hierarchical encoding and decoding of phonemes to mimic brain decomposition of language in neuron clusters

**Florida Atlantic University** June. 2018 – May. 2019

*Researcher – Dept. Computer Science Boca Raton, Florida, USA*

* Worked with deep neural networks and machine learning, applying CNNs, LSTMs, FFNs, SVMs, and KNNs (*MATLAB*)
* Led focused oceanography project on forecasting satellite data through statistical data analysis (PCA) and LSTM regression in the Gulf of Mexico

**Major Publications**

* **Wang, J. L.**, Zhuang, H., Ibrahim, A. K., Cherubin, L., and Ali, A. M., “Medium-Term Forecasting of Loop Current eddy Cameron and eddy Darwin formation in the Gulf of Mexico with a Divide-and-Conquer Machine Learning Approach,” *Journal of Geophysical Research: Oceans*, 2019
* **Wang, J. L.**, Li, A. Y., Huang, M., Ibrahim, A. K., Zhuang, H., and Ali, A. M., “Classification of White Blood Cells with PatternNet-fused Ensemble of Convolutional Neural Networks (PECNN),” *Proc. IEEE International Sym. on Signal Processing and Information Technology*, 2018
* **Wang, J. L.**, Ibrahim, A. K., Zhuang, H., Ali, A. M., and Li, A. Y., “A Study on Automatic Detection of IDC Breast Cancer with Convolutional Neural Networks,” *Proc. IEEE International Conf. on Computational Science and Computational Intelligence*, 2018