ARASH SAEIDPOUR

https://arashsaeidpour.github.io

Rohani Lab
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Professional Experience	**Postdoctoral Researcher**	Rohani Lab, Odum School of Ecology, University of Georgia
	Athens, GA	Dec 2017 - present

Developing mathematical and statistical models for forecasting reemergence of infectious diseases prior to large scale outbreaks (Early warning signals).

	Research and Development Engineer	Rahyab Melal Consulting Engineers
	Tehran, Iran	Dec 2011- March 2013

Developed software products for structural design of highway bridges in accordance with AASHTO specifications.

Education

University of Georgia, Athens, GA
PhD, Engineering, July 2017

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
MSc, Hydraulic Structures, November 2011

University of Zanjan, Zanjan, Iran
BSc, Civil Engineering, October 2009

Select Projects

- Attention-based Neural Machine Translation [IPython Notebook]
- Sub-word modeling and convolutional networks for NLP tasks [IPython Notebook]
- Hierarchical clustering of Odum School of Ecology faculty based on their publications [IPython Notebook]
- Implementation of word2vec on Stanford Sentiment Treebank (SST) dataset [IPython Notebook]
- Coauthorship graph of Odum School of Ecology faculty [IPython Notebook]
- Neural-network based dependency parser via arc-standard system for transitions [IPython Notebook]

Online Courses and Certificates

- Deep Learning Specialization by deeplearning.ai on Coursera[Certificate]:
    - Neural Networks and Deep Learning
    - Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
    - Structuring Machine Learning Projects
    - Convolutional Neural Networks
    - Sequence Models
- Machine Learning by Stanford University on Coursera [Certificate]
- Python gold badge on Hackerrank (rank 1st with total score of 2305)
- Natural Language Processing with Deep Learning (Stanford CS224N)
- Problem solving (algorithms and data structures) gold badge on Hackerrank

Skills and Tools	• Python, SQL, C/C++, Matlab, Mathematica, Tcl; • Jupyter Notebook, HTML, LaTeX; • Git, Unix/Linux shell scripting; • ArcGIS, QGIS, ArcCatalog, Autocad, OpenSees, Abaqus, Ansys.

Select Publications/ Proceedings

Saeidpour, A., Chorzepa, M.G., Christian, J. and Durham, S. "Parameterized fragility assessment of bridges subjected to hurricane events using metamodels and multiple environmental parameters", *Journal of Infrastructure Systems*, 24(4), 2018.

Saeidpour, A., Chorzepa, M.G., Christian, J.K. and Durham, S.A. ."Probabilistic Hurricane Risk Analysis of Coastal Bridges Incorporating Extreme Wave Statistics" *Engineering Structures*, 182, 2019.

Chorzepa, M. G., **Saeidpour, A.**, Christian, J.K. and Durham, S.A., (2016), "Hurricane Vulnerability Of Coastal Bridges Using Multiple Environmental Parameters," *Proc. 10th International Conference on Risk Analysis and Hazard Mitigation*, Crete, Greece.

Saeidpour, A. "Fragility analysis of coastal bridges susceptible to hurricanes incorporating uncertainties in extreme wave parameters by means of wave spectra and enhancement of vulnerability assessment methodologies." PhD diss., University of Georgia, 2017.

Saeidpour, A., Alinia, M.M.and Amani, M. (2011), "Comparison of Postbuckling Prediction Approaches in Curved Panels," *Proc. IABSE-IASS 2011 Symposium*, London, UK.

Alinia, M. M.,**Saeidpour, A.**, Amani, M. ."The shear buckling and postbuckling behavior of laterally pressured curved panels" *engrXiv,*, 2019.

Presentations

Poster Presentation (2019) "The return's anatomy: dissection of pertussis resurgence in London", *EEID 2019*, Princeton University, Princeton, NJ [Poster].

Oral Presentation (2018): "Leveraging census data to unlock insights from changing dynamics of pertussis in London",*Joint MIDAS CDC meeting*, Emory University, Atlanta, Georgia.

Oral Presentation (2016) "Multi-Hazard Resilient and Sustainable (or MRS) Bridges – Stronger, Taller, Wider, Smarter? ", *EMI/PMC 2016*, Vanderbilt University, Nashville, TN.

"Fragility metamodels for vulnerability assessment of coastal bridges under hurricane hazard", *GDOT/GTI 4th Annual Transportation Research Expo*, Atlanta, GA.

Poster Presentation (2015) "Hurricane Risk Assessment of Georgia Coastal Bridges ", *GDOT/GTI 3rd Annual Transportation Research Expo*, Atlanta, GA.