Nathaniel Rivera Saul

sauln.github.io

DEVELOPMENT EXPERIENCE

May 2019 - Present Vancouver, WA Aug 2017 - May 2019
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Ana 2017 - May 2019
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Analysis. g machine learning systems.
Richland, WA
May 2018 - August 2018
data exploration tools. learning techniques.
Beaverton, OR
Mar 2017 - Aug 2017
Portland, OR
Apr 2016 - Mar 2017
Portland, OR
Jul 2015 - Apr 2016
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Skills

Languages: Python, Javascript, C++, IAT_EX

Frameworks & Technologies: Scikit-Learn, NumPy, Scipy, Pandas, Keras, React, Flask, pytest, Git, Sphinx

EDUCATION

Washington State University	Vancouver, WA
Masters of Science in Mathematics	May 2019
University of Hawai'i at Mānoa	Honolulu, HI
Bachelor of Arts in Mathematics	June 2015

Projects

Scikit-TDA (scikit-tda.org): I develop, curate, and maintain a suite of Python libraries for Topological Data Analysis intended for industry and academic data scientists.

VOLUNTEER EXPERIENCE

HackOregon: Data Scientist with the Disaster Relief team.

Cascadia Wild: Camera maintanence crew.

PyCon 2017: Volunteer as speaker runner.

ACADEMIC WORK

N. Saul, and D. L. Arendt, *Explainable Machine Learning with Topological Data Analysis*. Demo in VISxAI Workshop at IEEE Vis 2018. Berlin, Germany, October 2018.

E. Corbett, N. Saul, and M. Pirrung, *Interactive Machine Learning Heuristics* in Learning from Users Workshop at IEEE Vis 2018. Berlin, Germany, October 2018.

C. Tralie, **N. Saul**, and R. Barr-on, *Ripser.py*, *A Lean Persistent Homology Library for Python* in The Journal of Open Source Software, September 2018.

L. McInnes, J. Healy, **N. Saul**, and L. Großerger, UMAP: Uniform Manifold Approximation and Projection in The Journal of Open Source Software, September 2018.

B. Krishnamoorthy, **N. Saul**, and B. Wang, *Stitch Fix for Mapper* in Young Researchers Forum at International Symposium on Computational Geometry. Budapest, Hungary, June 2018.

M. Fahad, N. Saul, Y. Guo, and B. Bingham, *Robotic Simulation of Dynamic Plume Tracking by Unmanned Surface Vessels*, in Proceedings of IEEE International Conference on Robotics and Automation, Seattle, WA, May 2015.