Richard Boeri Decal

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Skills + denotes proficiency

Languages Python⁺ · R · BASH · ECL · Español⁺ · English⁺ · Italiano

Tools Tensorflow · Pandas+ · SciPy+ · PySpark · Hadoop · Tidyverse · SQL · MongoDB ·

HBase · HPCC

Al for social good, pedagogical chatbots, carbon sequestration, blockchain, anti-**Passions**

censorship, social justice, computational neuroscience, travel, my tiny home.

Experience

Data Scientist, Florence A. Rothman Institute

2018

2017

2011

Studying effect of chronic conditions on heart failure with autoencoders, clustering, & Markov models.

Research Intern. Allen Institute for Brain Science

Summer 2018

Applying deep reinforcement learning for tracing neurons in petabytes of brain microscope data.

Research Assistant, Fairhall Lab, Dept. of Biophysics, Uni. of Washington

2014 - 2016

Created agent-based models of mosquito thermal plume navigation from windtunnel experiments.

Publications

Burman, Yu, Poole, Decal, Pallanck. "Analysis of neural subtypes reveals selective mitochondrial dysfunction in dopaminergic neurons from parkin mutants". PNAS 2012. 109(26):10438-43.

Kunttas-Tatli, Zhou, Zimmerman, Molinar, Zhouzheng, Carter, Kapur, Cheatle, Decal, McCartney. "Destruction Complex Function in the Wnt Signaling Pathway of Drosophila Requires Multiple Interactions Between Adenomatous Polyposis Coli 2 and Armadillo". Genetics 2012. 190(3):1059-75.

Decal. "Quantifying Small RNA Concentrations in *C. elegans*". Honors thesis. 2011.

Other Projects

Tensorpack Contributed to deep reinforcement learning framework for medical image data. **PolceStops** Created a webapp to query and visualize the Stanford Open Policing dataset. Income Predicted incomes using California census data based on 14 characteristics **Prediction** using feature engineering, support vector machines, and cross-validation. **CartPole** I solved a physics game using a deep policy gradient neural network.

Education

M.S. Data Science, New College of Florida. Full tuition scholarship. Expected Dec. 2018 Artificial Intelligence Engineer Nanodegree, Udacity B.A., Chemistry/Biology (Honors), New College of Florida