Richard Boeri Decal

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Skills + denotes proficiency

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

Tools Tensorflow · Pandas⁺, SciPy⁺ · Spark, Hadoop, HPCC · Flask, Plotly⁺ · Tidyverse ·

MongoDB, PostgreSQL, HBase · BeautifulSoup, Scrapy · GraphViz · AWS · SAS

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

censorship, molecular bio, computational neuroscience, travel, photos, my tiny home.

Experience

Data Scientist, Master's capstone project

2018

Studying effect of chronic conditions on heart failure using embeddings, clustering, & Markov models.

Research Intern, Allen Institute for Brain Science

Summer 2018

Enabling neuron tracing of petabyte-scale brain microscope data using deep reinforcement learning.

Classroom Mentor, Intro to Programming Nanodegree, Udacity

2017 - 2018

Guided students 1-on-1 in the Python for Data Analysis Track.

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

2014 - 2016

2017

2011

Simulating mosquito thermal plume navigation using agent-based models of 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

Author ID NLP analysis to deanonymize the New York Times Op-Ed Resistance author. **Tensorpack** Contributed to deep reinforcement learning framework for medical image data.

visit2vec Created a word2vec variant which embeds patient visits for clustering.

Etsy Trends Continuosly scraping & programatically generating product ideas.

Capsule Net Using CapsNet to for manifold learning of notMNIST; synthesizing data.

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