Richard Boeri Decal

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Skills + denotes proficiency

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

Tools Tensorflow · Pandas⁺, MongoDB, PostgreSQL, HBase · SciPy⁺ · PySpark, Hadoop,

HPCC · Plotly Dash, Flask · Tidyverse · BeautifulSoup, Scrapy · SSH, AWS

Passions Al for good: carbon sequestration, existential risk, healthcare, anti-propaganda, anti-

censorship, education, molecular bio. Travel, photos, my tiny home.

Experience

Data Scientist, Pacemate

2019

Improving cardiac patient care with automated time-series analysis of ECG data.

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

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 <i>New York Times</i> "Resistance Op-Ed" author.
Tensorpack	Contributed to deep learning framework for automating medical imaging tasks.
Capsule Net	Using CapsNet for manifold learning of notMNIST; synthesizing new digits.
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.

2018

B.A., Chemistry/Biology (Honors), New College of Florida

2011