

Richard Boeri Decal

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Skills

+ denotes proficiency

Languages Python⁺ · R (Tidyverse) · Español⁺ · English⁺ · Italiano
Tools PyTorch⁺, Keras, Tensorflow · (Geo)Pandas⁺, Dask, PostgreSQL · Ray/Anyscale⁺, PySpark, Hadoop · MetaFlow⁺, Airflow, Kedro⁺, MLFlow · Scipy, Sklearn, UMAP⁺ · Plotly Dash, Streamlit, Gradio, Seaborn, Altair⁺ · AWS stack, SageMaker · \LaTeX
Passions AI for climate change. Travel, [photos](#), outdoor sports, [Couchsurfing](#).

Experience

Lead Machine Learning Scientist, *Dendra Systems* 2020 — now
Founding lead. Full-stack ML engineer, scaling ecosystem analysis with long-tailed computer vision.

Lead Data Scientist, *Pacemate* 2019
First ML hire. Improved cardiac patient care with automated time-series analysis of ECG data.

Data Scientist, *Master's capstone project* 2018
Modeled effects of chronic conditions on heart failure using embeddings, clustering, & Markov models.

Research Intern, *Neuron Morphology Team, Allen Institute for Brain Science* Summer 2018
POC deep reinforcement learning for neuron tracing of Pb-scale brain microscope data.

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
Simulated 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 siRNA Concentrations in *C. elegans*". Honors thesis. 2011.

Invited Talks

Ray Summit '21 [How Ray and Anyscale Make it Easy to do Massive-scale ML on Aerial Imagery](#).

Education

M.S. Data Science, *New College of Florida*. Full tuition scholarship. 2017 — 2018
B.A., Chemistry/Biology (Honors), *New College of Florida* 2007 — 2011
Harriet L. Wilkes Honors College, *Early admission (16 years old)* 2006 — 2007
MOOC: Comp. Neurosci. ('14), ML Foundations ('16), ML Engineer ('17), GANs ('20), MLOPs ('21)