

Contact

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Top Skills

Python
Machine Learning
Scikit-Learn

Honors-Awards

NASA Group Achievement Award

Publications

Cross-correlation between X-ray and Optical/Near-Infrared Background Intensity Fluctuations

Submillimetre galaxies reside in dark matter haloes with masses greater than 3×10^{11} solar masses

Ultraviolet Luminosity Density of the Universe During the Epoch of Reionization

H-ATLAS: The Cosmic Abundance of Dust from the Far-infrared Background Power Spectrum

HerMES: A Statistical Measurement of the Redshift Distribution of Herschel-SPIRE Sources Using the Cross-correlation Technique

Ketron Mitchell-Wynne

Senior Data Scientist at Surflin Wavetrak, Inc.
Huntington Beach, California

Summary

Bringing machine learning into Surflin's pursuit of connecting people with the ocean.

Experience

Surflin Wavetrak, Inc.

2 years 1 month

Senior Data Scientist

July 2019 - Present (9 months)

Huntington Beach, CA

Data Scientist

March 2018 - July 2019 (1 year 5 months)

Huntington Beach, CA

I built the models here: <https://medium.com/surflin-labs>

- Real-time object detection pipeline on ocean-facing cameras with deep convolutional nets. I trained a handful of unique object classes and built a novel bounding box tracking algorithm in order to begin to turn Surflin's cams into intelligent sensors.
- Reduced the error in Surflin's nearshore wave forecasting by more than 20% with vanilla neural networks.
- Recurrent neural network models with time-series buoy data.

MSC Software

Development Engineer, Data Science

March 2017 - March 2018 (1 year 1 month)

Newport Beach, CA

- Various flavors of reinforcement learning applied to simulated driving environments. I trained deep neural networks with Q learning, Asynchronous Advantage Actor Critic, and Proximal Policy Optimization algorithms, using a handful of different frameworks. Models were trained from scratch with reward functions that I built.
- Object classification in Java with YOLO-like architecture and DL4J.
- Applications of machine learning to industrial engineering problems.

Education

University of California, Irvine

Doctor of Philosophy (PhD), Physics · (2013 - 2016)

University of Lisbon

Master of Science (MS), Astronomy and Astrophysics · (2012 - 2013)

University of California, Irvine

Bachelor of Science (BS), Physics · (2007 - 2010)