

BARUCH TABANPOUR

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WORK

SWE, ML – **Google**

June 2019-Present

- Core ranking for categorical queries on maps.
- 20% – researching multi-camera usage for robotic pick and place tasks.

Machine Learning Engineer – **Squarespace**

Feb 2017-Mar 2019

- Built python microservice framework with continuous deployment on Kubernetes for the first machine learning models in production at Squarespace.
- Internationalized text based search models in 6 languages ([blog post](#)).
- Created image tagging and saliency detection models/services for accessibility and image cropping suggestions.
- Created functional wrapper around Luigi for sharing datasets and building models.

Data Scientist – **ondeck**

July 2015-Jan 2017

- Built Fraud model with scoring service in production – averting ~\$250k in fraud per quarter.
- Loss forecasting and time-to-default models based on payment and behavioral data.
- AB tests for email campaigns.

Research Assistant - Computer Vision – **Columbia University**

June-Aug 2015

[Research Assistant - Physics](#) – **CUNY Laboratory for Nano and Micro Photonics**

June-Oct 2013

Summer Research Fellow - Physics – **National Institute of Standards in Technology**

May-Aug 2012

[Research Intern - Climatology](#) – **NASA Goddard Institute of Space Studies**

May-Aug 2010

TOOLS

- Daily: Python, Tensorflow, Keras
- Infrastructure: Kubernetes, Docker, Consul/Prometheus, S3, Drone
- Familiar: R, MATLAB, HDFS/Spark

PERSONAL PROJECTS

[yarlp](#) – yet another reinforcement learning package in tensorflow for RL benchmarking

[Joint image-text embeddings](#) - mapping images and text into the same space using CCA

[Intro-to-Reinforcement-Learning](#) - solutions to Introduction to RL by Sutton & Barto

[sinkhorn-knopp](#) - implementation of Sinkhorn Knopp

[Handwritten-generation](#) - implementation of handwritten generation with RNNs

[climatechangebot](#) - climate change chatbot

EDUCATION

Columbia University

May 2015

M.S. Applied Physics and Mathematics – GPA: 3.87 / 4.00

The City College of New York, Macaulay Honors College

Feb 2014

B.E. in Electrical Engineering, Minor in Physics – GPA: 3.96 / 4.00, Rank: 1/152