CONNER DIPAOLO

github.com/cdipaolo
cdipaolo@hmc.edu – (949) 300 3774

EXPERIENCE

Jet Propulsion Lab – *Pasadena, CA* June 2018 - Present
Research Intern – Deep Space Optical Communications

- Designed improved algorithms for estimation of parameters in a communications link designed to go to space with the Psyche mission in 2022 and applied these methods to closing a downlink control loop.
- Proved sample complexity bounds and concentration inequalities for current estimations scheme.

Yelp – *San Francisco, CA* May 2017 - August 2017
Intern – Ad Creative

- Project lead for implementing the first trained model for advertisement photo selection within Yelp using a deep neural network implemented in PyTorch.
- Designed, organized engineers, and heavily contributed to an internal web app for automated Bayesian analysis of Yelp A/B tests with potential to be used across all of Ads.

Yelp – *San Francisco, CA* May 2016 - August 2016
Intern – Spam Team

- Primary contributor to a widely used database replication service marshalling Kafka messages into MySQL.
- Integral in design and implementation of a model development framework used across the spam team.
- Utilized framework to retrain a stale spam detection language model, currently best performing in the team.

Veritone Media – *Newport Beach, CA* July 2015 - August 2015
Intern – Public company giving corporations actionable insight into media.

- Developed a production ready, open source sentiment analysis engine using my own machine learning library (using a Naive Bayes model on IMDB data.)

Soulsoup – *Newport Beach, CA* December 2014 - August 2015
Lead Engineer – Non-profit networking people who give with people who need. Funded by Veritone founder.

- Developed a scalable API in Go interacting with a PostgreSQL database and a mobile frontend.

OPEN SOURCE

GOML github.com/cdipaolo/goml
Creator

- Wrote the second most starred Golang machine learning libary on GitHub ($>$ 880 stars).
- Developed the only library using data channels to train models in an online and parallelizable way.

EDUCATION

Harvey Mudd College – *Claremont, CA* *Expected Graduation 2019*
Mathematics – *3.85 in-major GPA* *3.78 GPA*

Courtney S. Coleman Prize – *Harvey Mudd College* September 2017
Recipient – For Outstanding Performance in Mathematics as a Sophomore

Mathematics of Big Data – *Teaching Assistant* math189r.github.io

- Designed syllabus, created course materials, and wrote midterm with guidance from Professor Weiqing Gu.
- Lectured supplementary material and review sessions weekly.
- Held office hours and graded student work, projects, and exams.