Adrian Pardo

Personal Information

Cerritos, CA

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linkedin.com/in/adrian-pardo/

GitHub github.com/adrian-pardo

Data Science Portfolio:
adrian-pardo.github.io

Skills

- Proficiency in **Python**
  - Utilization of ipython, jupyter notebooks
  - Statistical analysis with *Numpy*, *Scipy*
  - Data manipulation with *Pandas*, *Regex*
  - Visualization with *Matplotlib*, *Seaborn*
  - **Machine Learning** (Supervised & Unsupervised) with *Scikit-learn*, *Pytorch*
  - Basic knowledge of **Natural Language Processing** with *Scikit-learn*, *Natural Language Toolkit (NLTK)*, and *gensim*
- Working knowledge of:
  - Database query with **SQL**
  - Experiment set-up with **MATLAB**
  - Statistical analysis with **SAS** & **R**
  - Scripting with **Bash/Unix**
  - Project workflow with **Git** and **Github**
- Proficient utilization of **REDCAP** database
- Basic knowledge of **Blockchain** development
- Proficient with **Mac** & **Windows** OS
- "Protecting Human Research Participants" certified by NIH

Languages

- Spanish—Native Speaker

Education

B.A. NEUROSCIENCE
University of California, Riverside SEP 2013 - JUN 2016

- **Relevant Coursework**:
  Statistical Computing (SAS & R), Biostatistics (Statistical Modeling), Computational Neuroscience (artificial neural networks), Neuroscience of Learning & Memory (biological & artificial neural networks)

Additional Coursework: Linear Algebra (MIT OpenCourseWare), Practical Deep Learning For Coders (fast.ai), Convolutional Neural Networks for Visual Recognition (CS231n @ Stanford University)

Research Experience

Research Coordinator OCT 2016 - JAN 2018
PIH Health Hospital, Whittier, CA

- Managed Clinical Trial Phases II-III as part of a nationwide team comprised of physicians and research coordinators to determine viability of integrating algorithms with shared-decision making to improve health literacy among underrepresented groups afflicted with osteoarthritis.
- Utilized EHR data and predictive modeling tool (e.g. Hidden Markov Model) to generate personalized health information for each patient.
- Facilitated data collection by communicating with patients in either English or Spanish, administering paperwork, clarifying potential treatment options, gathering feedback, and using REDCAP database.
- Served as liaison between research site, clinical trial network staff, collaborators and investigators.

Research Assistant SEP 2015 - JUN 2016
University of California, Riverside: Department of Psychology

- Researched iconic memory in humans by working with over 100 study participants over a 10-month period.
- Operated MATLAB software to administer computational neuroscience memory tests, electrophysiological (EEG) recordings, and eye-tracking experiments to collect quantitative information regarding human memory.

Research Assistant MAR 2014 - JUN 2015
University of California, Riverside: Department of Botany & Plant Sciences

- Performed statistical significance testing (e.g. ANOVA) to determine efficiency of biofuels from transgenic tobacco plants.
- Collected quantitative and qualitative data by completing over twenty wet lab procedures to prepare glycosyl composition of whole cell wall fraction, highly purified tobacco cell walls, and alcohol-insoluble residues.

Publications

- Sasaninia, B., Ghobadi, R., Cryder, Z., Wube, S., Juloya, G., Weston, B., Seo, S., Lee, J., **Pardo, A**., Orozco-Cardenas, M., and Nothnagel, E.A. 2015. Organ localization of a methylated cell wall sugar in transgenic tobacco expressing a moss methyltransferase gene. 9th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium Program Book, p. 14, University of California, Riverside. April 29, 2015.
  - Type: Conference Papers and Presentations
  - Status: Published
  - Year Published: 2015
- Ghobadi, R., Sasaninia, B., Cryder, Z., Wube, S., Juloya, G., Weston, B., Seo, S., Lee, J., **Pardo, A.**, Orozco-Cardenas, M., and Nothnagel, E.A. 2015. Expression of a moss methyltransferase that produces 3-O-methyl-galactosyl residues in transgenic tobacco. 9th Annual Undergraduate Research, Scholarship, and Creative Activity Symposium Program Book, p. 5, University of California, Riverside. April 28, 2015.
  - Type: Conference Papers and Presentations
  - Status: Published
  - Year Published: 2015

- Managed Clinical Trial Phases II-III as part of a nationwide team comprised of physicians and research coordinators to collect data regarding the viability of shared-decision making as a teaching tool for underrepresented groups afflicted with osteoarthritis.
- Utilized predictive modeling tool (e.g. Hidden Markov Model) to generate personalized health information for each patient.
- Facilitated data collection by communicating with patients in either English or Spanish, administering paperwork, clarifying potential treatment options, gathering feedback, and using REDCAP database.
- Served as liaison between research site, clinical trial network staff, collaborators and investigators.

Leadership

Personal Trainer JUN 2014 – Present

- Promoted safety, communication, and evidence-based practices to achieve strength, mobility, and weight loss goals for over 30 people.
- Tailored personalized fitness plans for each individual's unique characteristics and his/her respective goal.

Resident Counselor JUN 2017 - JUL 2017
University of Pennsylvania, Philadelphia, PA *Summer Discovery*

- Supervised and mentored a group of nine high school students during a college preparatory summer program at the University of Pennsylvania.
- Led field excursions and collaborated with 30+ other resident counselors to ensure a safe, friendly, and fun environment for 300+ students.

After School Teacher OCT 2016 - FEB 2017
Ace Academy, Cypress, CA

- Supervised a classroom of 4-12 students of a single grade with levels ranging from 1st to 11th grade, depending on the day.
- Administered classwork to tutor students in English, Spanish, Biology, Chemistry, Physics, and Mathematics.
- Taught students effective learning strategies to help them overcome academic challenges.

Projects Currently in Development

- **"Virtual Personal Trainer" Website and Application – Currently 40% Complete**
  - Application will take user data to provide personalized and actionable knowledge regarding fitness routines and diet information
  - Recommendations will be derived from evidence-based practices and years of personal training experience
  - Machine learning techniques will be incorporated to gradually improve the "recommendation algorithm" over time
  - Goal is to create an easily accessible tool for those who are seeking to adopt a healthier lifestyle but unsure how to start
    - Application will streamline a typically overwhelming, arduous process
    - Improve accessibility to a typically expensive service (personal training) at a minimal cost

Address: 18402 Vickie Ave - Cerritos - California - 90703

Skills

- Proficient in SQL, Python programming languages
  - Statistical analysis with Numpy, Scipy
  - Data manipulation with Pandas
  - Visualization with Matplotlib, Seaborn
  - Basic machine learning skills using PyTorch
    - Supervised & Unsupervised Learning
    - Computer Vision
  - Basic knowledge of Big Data analysis with Apache