Scott Piraino

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EDUCATION

MS in Medicine and Medical Sciences (Bioinformatics focus) — Nov 2014 — May 2017

University College Dublin

Research master's focusing on bioinformatics analysis of cancer genomics datasets.

- Large scale analysis of publicly available cancer mutation datasets
- Extensive use of both UNIX command line and R for processing data and statistical analysis
- Responsibility for the entire data analysis pipeline, from acquisition of data to analysis and presentation
- projects include using the high performance computing cluster run by the Irish Center for High Performance Computing

BS in Biology — Aug 2010 — Dec 2013

American University

TECHNICAL SKILLS

R,Python,UNIX/command line, some SAS, some SQL, some experience in high performance computing

EXPERIENCE

Springboard — March 2017 — Present

Student

- Completed coursework in data manipulation, data analysis and machine learning using bumpy/pandas/scikit-learn, as well as SQL and pyspark
- Completed a capstone project applying techniques in NLP to data science job ads scraped from the web
- Completed a second capstone applying techniques in time series forecasting as part of the Kaggle Web Traffic Time Series Forecasting competition
- Code written as part of this course is available at https://github.com/ScottWPiraino/Springboard_Data_Science

Meta-research — January 2017 — Present

Indenpendent research

- Preformed simulation and precision-recall analysis to evaluate a proposed method for the identification of fabrication or error in published summary statistics from clinical trials
- Performed a reanalysis of scientific replication studies to estimate the proportion of the scientific literature that draws false conclusions in various scientific fields
- Code and write-ups for these projects are available at https://github.com/ScottWPiraino/carlisle_reanalysis

and https://github.com/ScottWPiraino/false_finding_rate

DREAM 9 Acute Myeloid Leukemia Outcome Prediction Challenge

June 2014 — Sept 2014

DREAM 9 Contestant

- The DREAM 9 Acute Myeloid Leukemia Outcome Prediction Challenge was an online challenge that tasks teams with using clinical and proteomic features to predict outcomes for patients with acute myeloid leukemia
- used machine learning methods implemented in R using the "caret" package to make predictions
- final submissions, evaluated on held out data, were ranked 4th among all participants for two of the three subchallenges, and 5th for the third subchallenge. The challenge is described at https://www.synapse.org/#!Synapse:syn2455683/wiki/64007 and the final results are available at https://www.synapse.org/#!Synapse:syn2455683/wiki/70754

American University Academic Support Center

Jan 2013 — Dec 2013

Supplemental Instructor

- Lead supplemental help sessions for a class of close to 50 physics students
- designed exercises and practice problems to help students understand concepts reviewed in lecture
- Responsible for guiding discussion during review sessions

MetroHealth Medical Center

June 2012 — Aug 2012

Chester Scholar

- Observed clinicians throughout the hospital, including in the OR and on rounds
- Reviewed charts of neonates in the NICU
- Assisted with statistical analysis of data obtained from chart review

pystatsmodels

April 2011 — Sept 2011

Volunteer Programmer

- Implemented various survival models and functions for an open source library in python
- Contributed to the pystatmodels GitHub repository