Andreas Santucci

Email: santucci.andreas@gmail.com

linkedin.com/in/santucciandreas

Mobile: (650) 814 - 0024

EXPERIENCE

Google Mountain View, Calif.
Data Scientist - Search and Discovery at YouTube Nov. 2018 - Present

Airbnb San Francisco, Calif.
Data Scientist - Algorithms Sep. 2018 - Nov. 2018

Cardinal Analytx Palo Alto, Calif.
Data Scientist Aug. 2017 - Aug. 2018

- **Modeled health insurance claims data** using more than 80k features to predict a variety of outcomes, including nominal responses and orthopedic-joint surgeries. Built out the company's core product(s).
- **Authored robust and extensible production quality machine learning pipelines** enabling state of the art results in a daily production cycle, improving performance 50% beyond a BMJ Open 2017 research paper.
- **Lowered the memory footprint and compute time** by an order of magnitude.
- **Realized business value** by authoring both a risk-based model for actuarial purposes, outperforming state of the art compared with SOA's annual report, and also predicting orthopedic-joint surgeries in effort to route individuals from remote areas in Alaska and Washington to established centers of excellence.

Stanford University Stanford, Calif.
Lecturer (2017 - present); Teaching Fellow (2016-2017); Teaching Assistant (2016) Jan. 2016 - Present

- **Prepared and delivered lectures 2x/week** for CME 211 and 212 (intro and advanced scientific computing), with classes of 80 graduate students in STEM fields; managed a staff of four teaching assistants.
- **Engineered an AutoGrader system** in Python to facilitate programmatic grading of students' computer programs by fetching submissions and generating an interpretable grade report.
- **Synthesized lecture notes** for CME 323, a course in parallel and distributed algorithms.

Lawrence Livermore National Lab Livermore, Calif.
Computational Engineering Intern Summer 2015

- **Contributed** to `SparkPlug`, a statistical project for Spark, written in Scala. Implemented distributed MCMC, Bayesian updating methods for use with conjugate priors, and relevant methods for extracting sufficient statistics.

The Brattle Group San Francisco, Calif.
Research Analyst May 2012 - June 2014

- **Wrote a spell-checker using regular expressions** to recover thousands of GPS coordinates from a text-field on a proprietary survey with an accuracy rate of 97%.
- **Used ArcGIS and Python** to combine various data sources and examine spatial patterns along the U.S. coastline.
- **Created and presented** eight R training sessions including parallel programming, web-scraping, and text mining.

EDUCATION

Stanford University Stanford, Calif.
M.S., computational mathematics, 3.96 Aug. 2014 – June 2017

- Capstone thesis with Guido Imbens: estimated causal effects of night life on subsequent day sporting performance.
- One of two staff to earn an Annual Excellence in Teaching Award, received from ICME in 2017.
- Passed ICME Ph.D. qualifying exams in both stochastic processes as well as discrete mathematics and algorithms.

University of California, Berkeley Berkeley, Calif.
B.A., economics, 3.96 Aug. 2010 – May 2012

- Highest Honors; thesis estimated causal effects of NCAA D1 sports participation on academic success.
- Student Athlete: "walk-on" for the swim and dive team, earned one of two spots on the diving travel squad. NCAA team championships in 2011 and 2012.
- Neufeld Scholar: highest cumulative GPA among all student-athletes in 2012.

Foothill College Los Altos, Calif.
A.A., economics, communications, and an English certificate, 3.73; honors Sep. 2007 – June 2010

PROGRAMMING SKILLS

Proficient: C, C++, Git, LaTeX, Matlab, Python, R, Scala, Spark, Stata