## Scott Clark

scott@scottclark.io
@DrScottClark

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www.scottclark.io

Not looking for new job opportunities

#### **Education**

# Cornell University

Ithaca, NY

Ph.D. Applied Mathematics, M.S. Computer Science

2008 - 2012

- Department of Energy Computational Science Graduate Fellow (Full Scholarship, 4 years)
- Machine Learning, Data Science, Data Mining in bioinformatics and global optimization

# Oregon State University

Corvallis, OR

B.Sc. Mathematics, B.Sc. Computational Physics, B.Sc. Physics

2004 - 2008

- Graduated Magna Cum Laude with three Bachelors of Science degrees in four years

# Research and Work Experience

# SigOpt Inc

San Francisco, CA

Co-founder and CEO

November 2014 - current

- Helping lead a world class team to eliminate expensive trial and error from every experts workflow. Using cutting edge optimization behind a simple API to help tune machine learning models and build better products in a variety of fields.
- Raised over \$8.8M in angel, seed, and Series A VC rounds led by Andreessen Horowitz (a16z) and YCombinator (YC W15). Additional investors include SV Angel, Data Collective (DCVC), Blumberg Capital, Stanford University, and others.
- Presented SigOpt to many thousands of experts and executives in many fields through hundreds of briefings and high profile conferences around the world.

#### Yelp Inc

San Francisco, CA

Data Mining Engineer and Lead on Ad Targeting Team

July 2012 - December 2014

- Co-developed and led team for MOE: the Metric Optimization Engine
   (github.com/Yelp/MOE, an open source optimization framework), found significant gains in different metrics across the organization using Bayesian Global Optimization algorithms.
- Implemented multi-armed bandit strategies for ad selection, sole targeting engineer on mobile app ads rollout, developed new location-based targeting algorithms, advised and helped develop other machine learning and math based targeting projects.
- Created, implemented, and directed yelp.com/dataset\_challenge, gave tech talks across the country, led events, gave hundreds of technical interviews, closed candidates.

#### Bloomberg LP

New York, NY

Financial Software Development Intern

Summer 2011

- Implemented statistical models to perform forward and backward portfolio analysis

## DOE Joint Genome Institute (Lawrence Berkeley National Lab)

Walnut Creek, CA

Researcher in Analysis Group under Dr. Zhong Wang

Summer 2010

- Used machine learning to mine TBs of genome data efficiently using novel likelihood function

# Los Alamos National Laboratory

Los Alamos, NM

Researcher in Metagenomics Group under Dr. Nick Hengartner

Summer 2009

- Used statistical models to discover sequence alignments using parallel algorithms on GPUs

### **Oregon State University**

Corvallis, OR

Research Assistant under Prof. Malgorzata Peszynska and Prof. Rubin Landau

2005-2008

- Finite element analysis with uncertainty and web-based teaching in Java

## Max Plank Institute for the Physics of Complex Systems

Dresden, Germany

NSF REU Research Assistant under Prof. Steven Tomsovic

 $Summer\ 2007$ 

- Research on extreme value statistics in MATLAB and FORTRAN

### University of California: Davis

Davis, CA

NSF REU Research Assistant under Prof. Daniel Cox

Summer 2006

- Computational biophysics research as applied to protein folding in Java

## Writing and Awards

- 2016 Forbes 30 Under 30: Enterprise Tech. http://onforb.es/10ILpBZ
- Department of Energy Computational Science Graduate Fellow: Four year full fellowship. ~20 awarded nationally per year. Won the Communicating Science award (bit.ly/VbcTZK).
- SigOpt Blog: Posts talking about using SigOpt to optimize everything (blog.sigopt.com).
- Yelp Blog: Wrote several posts announcing the open sourcing of MOE, the Yelp Dataset Challenge and more. bit.ly/1x73xdr, bit.ly/1oCCZvv, bit.ly/1s0sEBS, bit.ly/1p1X7Hk
- Press: WSJ: on.wsj.com/VaOvqQ, Cornell: bit.ly/1oB2dzm, DIEXIS: bit.ly/1oofb14

#### Skills

- Numerical Analysis and Computer Science: Machine Learning, Data Mining, Optimization, Computational Science, Artificial Intelligence, Linear Algebra, Monte Carlo Methods, ODEs, PDEs, Iterative Methods, Parallel Programming, Distributed Systems, Data Structures
- Tech Stack: Python, numerical libraries, linux, git, vim
- Public Speaking: I've given several hundred technical talks to audiences at machine learning conferences, Fortune 500 boards, and beyond.
- Exploring and implementing ideas. Give me an API/dataset and a problem and I will figure it out.