Scott Clark
scott@scottclark.io
@DrScottClark

August 21, 2020
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/1OILpBZ`
- **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/1sOsEBS`, `bit.ly/1plX7Hk`
- **Press:** WSJ: `on.wsj.com/VaOvqQ`, Cornell: `bit.ly/1oB2dzm`, DIEXIS: `bit.ly/1oofbl4`

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.