# Julian M. Lehrer

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## EDUCATION

**University of California, Santa Cruz** *Fall 2018 - Spring 2022 (expected)*
B.A. Computer Science, Minor in Computational Mathematics

## EXPERIENCE

**Undergraduate Researcher** | *UCSC Genomics Institute — Santa Cruz, CA*

- Researching depth in functional data
- Writing numpy for detecting spikes in neuron firing data, running on a distributed compute cluster

**Data Science Intern** | *Blackthorn Therapeutics — San Francisco, CA*

- Used statistical modeling to research which features most heavily impact depression and anxiety rates across the US
- Unsupervised learning methods (clustering) to analyze which states are most heavily affected by rates of depression, unemployment and other factors caused by economic crisis

**Data Science Intern** | *Startup Genome — San Francisco, CA*

- Created deep learning model with Python (Pandas, Tensorflow, NLTK) to classify startup sectors from funding data
- Wrote data engineering pipeline to generate and visualize funding metrics for clients

## PROJECTS

**Project Portfolio** | https://github.com/jlehrer1/Projects

**Transparency Project (1st Place CruzHacks 2020)**

- A fully interactive website that brings clarity to the political process through interactive data visualizations. Build with Plot.ly and Dash, and hosted live on GCloud.

**InstantEDA**

- Python package to instantly generate common exploratory data plots without cleaning your DataFrame
- Built with Python (pandas, numpy, plotly), published on PyPi

**DrivenData: DengueAI**

- Used a combination of engineered lagged features and fourier models to achieve a top 11.8% score globally (so far) on the DrivenData Dengue fever prediction contest
- Built with Pandas, Scikit-learn and Tensorflow

## SKILLS

**Programming**: Python (scikit-learn, Pandas, Numpy, Tensorflow, Plotly), Swift, SQL, Java, C, C++, HTML/CSS (Bootstrap, JQuery), Matlab
**Theory**: Statistical models, machine learning, deep learning, numerical optimization, numerical methods
**Software**: AWS Elastic Beanstalk, AWS Lambda, Git, Bash