

# 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 the effects of isolation on depression and anxiety
- Wrote interpretable models in Python (scikit-learn) to be used in future clinical analysis
- Generated a research report and presentation for the company

**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