

□ 224-256-0994 | ■ danielkentwood@gmail.com | □ https://github.com/danielkentwood | □ https://www.linkedin.com/in/danielkentwood/

Skills

Machine Learning (time-series, tree-based ensemble methods, regression and classification models, clustering),

**Techniques** dimensionality reduction (t-SNE, PCA), model explainability (LIME, Shapley values), NLP (sentiment analysis, vector spaces,

knowledge graphs, topic models), statistics (hypothesis testing, experimental design), DSP (FFT, wavelets)

**Packages** SK-Learn, Pandas, Numpy, Selenium, BeautifulSoup, Statsmodels, Plotly, Seaborn, Dash, Streamlit, NLTK, SpaCy, pySpark

**Programming** Python (5 yrs), MATLAB (10 yrs), HTML5, CSS, SQL, Linux Shell DevOps/Cloud

Experience \_\_\_\_\_

**Sharpest Minds** Chicago, IL

5/2020 - Present DATA SCIENCE FELLOW

- Developed a python package and web app that provides decision support for diabetics. (https://github.com/danielkentwood/sugartime)
- Developed ETL pipeline for patient biodata from wearable devices (continuous glucose monitor and insulin pump). Developed custom multioutput autoregressive time-series model to forecast blood glucose levels.
- · Collaborating with CTO at ProteinQure.

Docker, Git, AWS, Heroku

**Exponent** Chicago, IL

SCIENTIST 3/2019 - 10/2020

- Performed human factors consulting (litigation support, forensics, product safety/usability) for several Fortune 500 companies.
- · Project management (budgeting, billing, quality control, data collection, coordinating client communication, project pacing, writing expert opinions). Managed 15 projects with team sizes between 4 to 12 consultants.
- Built a dashboard for tracking month-to-month employee performance company-wide.
- · Developed python apps for automating critical tasks, resulting in up to 10X speedups in execution time and saving clients thousands of dollars.

**Northwestern University** Chicago, IL

POSTDOCTORAL RESEARCH FELLOW

1/2014 - 3/2019

- Neural mechanisms of search behavior in monkeys and mice. Published 2 peer-reviewed articles. Received 2 grants (\$150K in funding).
- Developed novel eye tracking rigs and experimental control applications (in Python & C++) for monkeys and mice.
- · Wrote Python and MATLAB code to preprocess, analyze, model, and visualize insights from >3 TB of behavioral and neural spiking data. (https://github.com/danielkentwood/NERF).

# Selected Projects \_\_\_\_\_

## SugarTime

https://github.com/danielkentwood/sugartime

• SugarTime is a python package and web app that helps diabetics optimize insulin dosage to counteract a meal.

## SearchMo

https://github.com/danielkentwood/SearchMoDB

• SearchMo is a Dash app that allows users to query the frequency of N-grams over time within a database of Mormon (LDS) periodicals.

## Education

## **University of Western Ontario**

London, ON, CAN

MS & PHD IN NEUROSCIENCE

9/2007 - 5/2009, 9/2009 - 12/2013

Visuomotor decision-making in humans. Published 12 peer-reviewed articles. Received 4 grants (\$137K in funding).

## **Brigham Young University**

Provo, UT

HONORS BA IN PHILOSOPHY (MINORS IN LOGIC, MUSIC, AND PSYCHOLOGY)

9/2001 - 5/2006