JOHN SCHROM

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EXPERIENCE

UNIVERSITY OF CALIFORNIA   **SAN FRANCISCO, CA**
Computational and Data Science Research Specialist 4   *2021 – present*
- Designed and executed statistical analyses that led to three high-impact publications in six months, quickly amassing 200+ citations and 130,000+ views, and gaining coverage by 50+ news outlets, including the New York Times.
- Architect and develop a data system to process and store over one terabyte of health data from 160,000+ individuals across Kenya and Uganda in a secure, HIPAA-compliant manner.
- Automate reproducible data pipelines to reduce data lag from 7+ days to less than 6 hours, improving real-time decision-making and quality control capabilities.
- Supervise a team of three data specialists and coordinate projects for a 15+ member international data team, implementing Agile methodologies, CI/CD pipelines, and code reviews to streamline development workflows and enhance collaboration.

ONE MEDICAL   **SAN FRANCISCO, CA**
Senior Machine Learning Engineer / Staff Data Scientist   *2017 – 2021*
- Engineered machine learning models for targeted health interventions, achieving a 43% increase in engagement and 22% improvement in clinical outcomes.
- Invented a novel machine learning process in an electronic health record, leading to One Medical's first-ever patent application and advancing the use of ML to address clinician burnout.
- Designed, executed, and published program evaluations of clinical initiatives, which were prominently featured in One Medical's S-1 filing for its IPO demonstrating their impact on patient outcomes and operational efficiency.
- Won "People's Choice" and "Most Geektastic" awards at company hackathon for developing machine learning applications to address provider efficiency in clinical documentation.

GRAND ROUNDS, *Senior Data Scientist*   *2016 – 2017*
PRACTICE FUSION, *Senior Data Scientist*   *2013 – 2016*
UNIVERSITY OF MINNESOTA, *Research Assistant*   *2012 – 2013*
ROCK HEALTH, *Fellow*   *2012*

EDUCATION

Graduate Coursework in Statistics   Johns Hopkins University
Graduate Coursework in Computer Science   University of Minnesota
MPH IN EPIDEMIOLOGY   **UNIVERSITY OF ILLINOIS**
BS IN CHEMISTRY AND BIOLOGY   **UNIVERSITY OF MINNESOTA**

SKILLS

python pandas, sklearn, numpy, matplotlib, seaborn, plotly, nltk, spacy, statsmodels, keras, pytorch, dash, django, flask **R** ggplot, tidyverse, shiny, caret, arules, e1071, mass **Statistical Analysis** hypothesis testing, regression, study design, sampling techniques, bootstrapping, monte carlo simulations **Machine Learning** penalized regression (ridge, lasso, elasticnet), decision trees and random forests, nearest neighbors, support vector machines, neural networks and deep learning, association rules, clustering (kmeans, density-based, hierarchical), principal component analysis, naive bayes, bayesnet **Databases** SQL, mysql, postgres, sqlite, mongodb, couchdb, snowflake, bigquery, spark **Dev Ops** docker, kubernates, CI/CD, AWS

Portfolio, Publications, and full CV available at johnschrom.com