

## High-Impact Data Science Project Leadership at Enterprise Scale

Also see <https://daniellinnen.com> for data science portfolio

### 2020

Kaiser Permanente COVID-19 Patient and Employee exposure surveillance analytics

Magnet Readiness quality performance across quality domains, patient care experience, and readiness assessment (21 NCAL medical centers)

Epic Acuity and Staffing (4 analyses/21 medical centers using Tableau)

Epic Acuity Enterprise dashboard: 21 medical centers (Tableau)

### 2019

KP Career Progression Program Benefits/Business Case (Regional HR dataset with >20,000 unique IDs): Identified \$xM in program benefits

1. Reduced turnover of program participants
2. Improved internal hiring and promotion
3. Impact of program participation on hospital staff nurse turnover

AHRQ Predictive Analytics Challenge: County-level population characteristics on hospital utilization (US dataset; >2,000 hospitals); R and Python; team lead

### 2018

CNR HAPI project (Both CA regions) Risk-adjustment of patient safety outcome across 35 hospitals in CA; identified new hospital-level risk actors and invalidated previous held assumptions – *Best Paper Award*

Alert-Driven Rescue – *UCSF Distinguished Dissertation Award*

1. Published world's first systematic review of AI in prediction of clinical deterioration or ICU transfer
2. Chart review study; SQL and STATA
3. Matched-pair cohort study of alert-driven interventions on sepsis survival – SQL and STATA

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### 2017

CA study of hospital location and county-level characteristics on CMS hospital mortality rankings (entire State) R

Air quality data in the SF Bay Area (Tableau to R to h2O interface)

- Google car air quality sensors data

### 2016

Innovation Knowledgebase and project readiness analyses for organizational spread (national KP dataset; all regions in Tableau)

MDIP Business enterprise-level business case; identified \$xM in hard benefits and \$xM in soft benefits

### 2015

Alarm safety dashboard, alert type and frequency across regional, local, and department levels (dataset from CA regions, >1M rows, SQL server and Tableau) – *Best paper award*