

EVAN A. BRYDON

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SUMMARY

Statistician and data scientist with 8+ years applying statistical sampling, probabilistic inference, and regression modeling to large-scale population data. Specializes in the analysis of employment, timekeeping, and payroll records to estimate class-wide exposure and damages in wage-and-hour matters, and in communicating rigorous statistical findings clearly to non-technical audiences.

AREAS OF EXPERTISE

Statistical sampling & extrapolation • Survey methodology • Regression analysis • Class-action damages modeling • Probabilistic record linkage & matching • Payroll and timekeeping data analysis • Meal-and-rest-break and off-the-clock analysis • Employee misclassification • Inference from a sample to a large population • Large-scale data processing (PySpark, SQL)

WORK EXPERIENCE

The Nielsen Company - San Francisco, CA (January 2016 - July 2024)

Data Scientist (January 2016 - June 2022), Senior Data Scientist (July 2022 - July 2024)

- Built and validated a statistically rigorous regression model to estimate an unobserved individual attribute (age) across a large population, applying the same predictive-modeling and validation methodology used to estimate class-wide exposure from incomplete records.
- Performed probabilistic record linkage to match individuals across disparate data sources – the same class of methods used to reconcile payroll, timekeeping, and scheduling systems and to link workers across databases in class-action analysis.
- Helped design and build a now-patented automated linkage process in AWS that matched records across sources while adhering to stringent data-security and privacy requirements.
- Applied statistical inference to extrapolate from a measured sample to a large population, assigning attributes at the device level using PySpark on a modified Airflow pipeline – directly analogous to the sampling-and-extrapolation logic scrutinized in class certification and damages estimation.
- Extended the model's useful lifespan by linking records over time and implementing a system to automatically and continually re-estimate it as new data arrived, supporting longitudinal, defensible inference.

Convergence Investment Management - San Francisco, CA

Data Science Intern (March 2015 - July 2015)

- Created and tested a regression model to predict fund movement for closed-end funds in selected situations.

LiveCareer - San Francisco, CA

Data Science Intern (November 2014 - March 2015)

- Applied text processing and statistical clustering to a large corpus of resumes, grouping records by industry and identifying natural clusters by content.

PATENTS

US 11,250,339 B2 – *Ensemble Classification Algorithms Having Subclass Resolution*.
Inventor.

PATENT APPLICATIONS

US 2022/0207543 A1 – *Methods and Apparatus to Deduplicate Audiences Across Media Platforms*. Inventor.

EDUCATION

M.S. in Analytics, University of San Francisco, 2015

B.A. in Mathematics/Economics, University of California - Santa Barbara, 2012

SELECTED GRADUATE COURSEWORK

Linear Regression Analysis, Time Series Analysis, Multivariate Statistical Analysis,
Exploratory Data Analysis, Machine Learning, Advanced Machine Learning,
Distributed Computing, Relational and NOSQL Databases, Information
Visualization, Web Analytics.