Elliott B. Evans

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Profile

- Implementation of machine learning algorithms on large data sets.
- Worked with eclectic mix of statistical frameworks: parametric/nonparametric & Frequentist/Bayesian.
- Well versed in computational programming languages such as MATLAB, R, Mathematica.

Education

UNIVERSITY OF MICHIGAN
Ann Arbor, MI

M.S. in Applied Statistics (Expected Apr. 2018)   *Sep. 2016 - PRESENT*

- GPA: 4.0/4.0
- **G**raduate **S**tudent **I**nstructor (Teaching Assistant), Introduction to Statistics and Data Analysis
- GSI Mentor – Responsible for onboarding new GSIs and administrative duties.

NORTHWESTERN UNIVERSITY
Evanston, IL

B.A. in Statistics & Mathematics, Minor in Computer Science   *Sep. 2011 - June 2015*

- GPA (Statistics): 3.9/4.0
- MENU Program (Mathematical Experience at Northwestern University, Honors Mathematics Program)
- Dean's List

Professional Experience

OptionsHouse - Online Brokerage for Stock and Options Trading
Chicago, IL

Jr. Business Intelligence Analyst   *June 2015 - July 2016*

- Designed and implemented C5.0 decision tree model to forecast future user value.
- Distributed data visualizations and created KPIs centered around attrition for internal/executive use.
- Provided data-driven analysis on user trading behavior and customer segmentation.
- Manipulation of MySQL and PostgreSQL databases to produce insight from millions of data points.

NumberFire - Data-driven sports analysis and news

Contributing Writer   *June 2014 - Sep. 2014*

- Provided data-centric baseball content for site.

STATS LLC - Global leader in sports information, technology & content
Northbrook, IL

Operations Statistician   *June 2013 - Sep. 2013*

- Provided baseball pitch type analysis for MLB and NPB (Japanese) games.

Projects

Inference-Based and Predictive Analytics

- Identified spatial patterns in Michigan high school graduation rates using Bayesian hierarchical spatial models.
- Presidential Election 2016 forecasts using nearest-neighbor algorithms and parameter estimation.
    - Project Site: `https://elliottevans.github.io/election_forecasts/`
- Analyzed socio-economic achievement gaps in mathematics testing via hierarchical linear modeling.
- Baseball Hall of Fame Predictor using multi-dimensional Gaussian models.
    - Project Site: `https://elliottevans.github.io/MLB_HOF_Predictor/`

Relational Databases

- Created map-based dynamic web application plotting Federal Election Commission data using Oracle database.
- Designed database-backed dynamic web app. simulating portfolio management via historical stock information.

Programming Languages

R, SQL, MATLAB, Python, C, C++, C#, Perl, HTML/CSS