Elliott B. Evans

1221 Prospect St, Ann Arbor, MI 48104

| ■ evanselliott1@gmail.com | 🖬 elliott-evans

Profile ___

- Strong background in mathematics including coursework in linear algebra and multivariate calculus.
- Graduate coursework covering mix of statistical frameworks: parametric/nonparametric & Frequentist/Bayesian.
- Well versed in programming languages such as R and SQL, with experience in Python.

Education _____

UNIVERSITY OF MICHIGAN

(443) 676-7617

Ann Arbor, MI

M.S. IN APPLIED STATISTICS (EXPECTED APR. 2018)

Sep. 2016 - PRESENT

- GPA: 4.0/4.0
- 2016 2017 Outstanding First Year Masters Student Award
- Graduate Student Instructor (Teaching Assistant), Introduction to Statistics and Data Analysis
- GSI Mentor in charge of new GSI onboarding and administrative responsibilities
- Full tuition awarded for Fall 2016 Present

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 _____

US Census Bureau - Education, Demographic, Geographic Estimates Branch

Suitland, MD

SURVEY STATISTICIAN INTERN

June 2017 - August 2017

- Analyzed results of empirical Bayesian kriging on income-to-poverty ratios (IPR) for US public schools.
- Utilized ArcGIS software to detect extreme IPR cases across US.
- Helped detect possible disclosure problems in spatially interpolated demographic estimates.

OptionsHouse (Now part of E*TRADE) - Online brokerage for stock & 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.
- 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.

Teaching Experience _____

University of Michigan, Department of Statistics

Ann Arbor, MI

GRADUATE **S**TUDENT **I**NSTRUCTOR (TEACHING ASSISTANT)

• GSI for STATS 250 - Introduction to Statistics and Data Analysis

Fall 2016 - PRESENT

• Teach three lab sections (90 - 120 students total) per semester

- Winter 2017
- GSI Mentor responsible for onboarding new GSIs and lab material preparation
 GSI Mentor responsible for our learning management system (E-Coach) and technology help

Fall 2017

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Projects _

INFERENCE-BASED AND PREDICTIVE ANALYTICS

- Identified spatial patterns in Michigan high school graduation rates using Bayesian hierarchical spatial models.

 Report: https://github.com/elliottevans/spatial_project/blob/master/tex/final_project.pdf
- Estimated probability of heart disease using Bayesian logistic regression.
 - Report: https://github.com/elliottevans/biostat682umich/blob/master/final_project.pdf
- 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.
 Report: https://github.com/elliottevans/HLM/blob/master/final_project.pdf
- Measured value of pitch-framing skill in MLB using run expectancy matrix and Pythagorean expectation.

 Report: https://github.com/elliottevans/pitch_framing/blob/master/final_paper.pdf
- 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, SAS, MATLAB, PYTHON, C, C++, C#, PERL, HTML/CSS