Harvey N. Brown

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**SUMMARY OF QUALIFICATIONS**

* Five years of analyzing and reporting data using SAS, R, SPSS, Python, SQL, Excel & Access
* Six years of mentoring students about problem-solving in undergraduate mathematics and statistics courses
* Demonstrated leadership experience, event planning, and project management skills through campus involvement

**EDUCATION**

**Purdue University-** Indianapolis**,** IN Graduation - May 2016

Master of Science in Applied Statistics

**Related Courses:** Design of Experiments, Sampling & Survey Techniques, Statistical Computing, Statistics in Pharmaceutical Research

**Purdue University -** Indianapolis**,** IN Graduation - May 2012

Bachelor of Science in Actuarial Science

Minor in Business

**Related Courses:** Probability Theory, Organizational Behavior, Statistical Theory

# ANALYTICAL EXPERIENCE

**Stock Returns-A Look at Three American Indices**

Time Series Analysis Course Spring 2014

* Used time series analysis to analyze trends in order to forecast and predict 3 stock indices
* Utilized the VAR model to compare the Dow Jones Industrial Average (DJIA), Dow Jones Utility Average (DJUA) and Dow Jones Transportation Average (DJTA) stock prices
* Can use predictions in asset and stock valuation and in pricing portfolio assets – Discovered that the DJUA was highly correlated with the DIJA

**Surgery Report-Using Iterative Reweighted Least Squares Algorithm**

Statistical Computing Course Fall 2014

* Wrote a function in R that estimated logistic regression parameters for binary outcome on two covariates
* Used logistic regression to fit surgery data to see if a patient would have a sore throat after using anesthesia based on the type of tool used to keep patient’s airway open during surgery and the surgery duration time
* Discovered patients are more likely to experience sore throat based on type of tool utilized

# Determinants of beta-carotene plasma concentration

Applied Linear Regression Course Fall 2013

* Utilized SAS to perform linear regression on data set with 11 independent variables and 2 dependent variables in order to establish a relationship in predicting 2 dependent variables
* Used model validation procedures i.e. Cook’s distance, AD, Shapiro-Wilk’s, normality plots, etc. to ensure model fit data as accurately as possible
* Presented in a group of 3 other students to a classroom of 25 other students and the instructor our results via power point and print-outs

**WORK EXPERIENCE**

**Sallie Mae Bank,** Indianapolis, IN

*Contractor* October 2016- Present

* Program using SQL and SAS to automate several business processes
* Work on several projects that are being tested and implemented into everyday business tasks
* Meet with others on the team to collaborate with the progress on projects

**IUPUI Math Assistance Center (MAC) Stat,** Indianapolis, IN

*Mentor, Statistics* August 2009- December 2015

* Assisted several hundred students to increase their final grade by a whole letter in most cases.
* Personalized learning experience to suit the needs of each individual student.
* Tutored undergraduate and graduate students in statistics via StatCrunch, SPSS, and STATA

**CNO Financial Group,** Carmel, IN

*Intern, Health Valuation* May 2015 - August 2015

* Utilized MS Access, MS Excel, VBA, and SQL in order to analyze projections on cash flow testing
* Worked effectively with co-workers to improve Citrix server performance.
* Clearly and effectively presented project results to approximately 200 business professionals.

**IUPUI Math Assistance Center (MAC),** Indianapolis, IN

*Mentor, Math* September 2009- December 2014

* Assisted several hundred students to increase their final grade by a whole letter in most cases.
* Personalized learning experience to suit the needs of each individual student.
* Tutored undergraduate and graduate students in statistics via StatCrunch, SPSS, and STATA.

**CAMPUS INVOLVEMENT**

*Secretary,* Actuary Science Club at IUPUI August 2011-May 2012

* Re-established the organization on IUPUI by working on multiple projects with tight deadlines
* Planned several events including hosting one in which 20 students and faculty members listened to 3 IUPUI alumni who became actuaries discuss their experiences and give exam and career advice

*President of Zeta Colony,* Tau Phi Sigma Fraternity January 2009-January 2012

* Played an instrumental role in establishing organization by increasing membership and becoming more involved on-campus at IUPUI
* Lead the planning and coordination of several events by multi-tasking to meet tight deadlines
* Promoted higher education to high school students in IPS by speaking about the differences between high school and college, admissions examinations, and study skills

**PROFESSIONAL ORGANIZATION**

* American Statistical AssociationAugust 2014-Present