

Bin Han

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EDUCATION

Duke University, Durham, NC August 2018 – May 2020 (Expected)
Master of Science in Statistical Science (Data Science Track)

Purdue University, West Lafayette, IN August 2015 – May 2018
Bachelor of Science in Applied Statistics & Economics **GPA: 3.98 / 4.00**

SKILLS

Technical Skills: R (Markdown, Shiny), SAS, SQL, Tableau, Power BI, SSRS, Microsoft Office Suite, LaTeX, C (limited), GitHub
Analytical Skills: Machine Learning, Statistical Learning, Regression Analysis, Causal Inference, Predictive Modeling, Visualization

PROFESSIONAL EXPERIENCE

Ultimate Medical Academy, Tampa, Florida June 2018 – August 2018
Business Intelligence Analyst Intern

- Manipulated Big Data in SQL and solved issues such as duplicate values, conflicts, to increase accuracy and boost performance.
- Developed and maintained metrics using Power BI and SSRS to help the marketing team target internet sources, improve qualifications of candidate pool, and enhance the efficiency of business cycle.
- Conducted ad-hoc qualitative and quantitative analyses around new business initiatives in efficient manners to solve the complex problems of various departments.

Purdue University Economics Department, West Lafayette, IN January 2017 – December 2017
Undergraduate Teaching Assistant

- Assisted 400 students in addressing academic problems and making study plans, through office hours and review sessions.
- Demonstrated excellent communication skills by adjusting my teaching to students' ability levels, by using abstract terminologies or the applying concrete graphs, real-life examples, analogies etc.

RESEARCH & PROJECTS

Senior Thesis, Purdue University January 2018 – May 2018

- Identified relevant predictors of economic effects on the Tax Cuts and Jobs Act through critical thinking and deep research.
- Explored "Tax Reform Act of 1986" by collecting predictions of economic and budgetary outlooks.
- Performed accuracy tests to check the precision and error range of predictions by comparing with historical values.

Data Visualization Research, Purdue University January 2018 – May 2018

- Analyzed mental healthcare claims aiming to improve accessibility in Indiana communities and enhance health conditions.
- Visualized geographic distribution of providers in Tableau to measure the accessibility of mental disease services.
- Conducted demographic analysis to educate the public about mental health facts for age, gender, and ethnicity groups.

Econometrics Research, Purdue University September 2017 – December 2017

- Independently analyzed the correlation between alumni donation percentile and graduation rate across 1300 universities by building and refining regression model.
- Determined that alumni donation rate is statistically significant for private school graduation rate but not for public institutions.
- Solved data issues of heteroscedasticity, misspecification, and over-controlling using theoretical tests in STATA.

Applied Regression Analysis Project, Purdue University September 2017 – December 2017

- Collaborated to construct a multiple linear regression model and quantified the correlation among bio-factors using SAS.
- Performed advanced tests to check assumptions, make transformations, detect outliers, and select the best model for analysis.
- Presented practical suggestions with innovative explanations for the obese female group to help them take care of health.

AWARDS & HONORS (SELECTED)

• Weiler Outstanding Senior Award, Krannert School of Management	Spring 2018
• Distinction in Economics Award, Krannert School of Management	Spring 2018
• Beta Gamma Sigma – International Honor Society	Spring 2018
• Mu Sigma Rho – National Statistical Honor Society	Spring 2018

PUBLICATIONS

Snapshot

- Han, B. (2018) "How Does Alumni Donation Percentile Affect the Level of Graduation Rate?" *The Journal of Purdue Undergraduate Research*: Vol. 8, Article 19. DOI: <https://doi.org/10.5703/1288284316748>
- Han, B. (2018) "Geographic and Demographic Analysis of Claims Serving Mental Health Patients in Indiana," *The Journal of Purdue Undergraduate Research*: Vol. 8, Article 27. DOI: <https://doi.org/10.5703/1288284316758>