# Elizabeth Glenn Guy, PhD

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*Published Data Scientist with a unique blend of over six years of analytical and 3 years of technical sales, marketing, and project management experience.  I bring enthusiasm, dedication, a collaborative attitude, and a critical questioning mindset to my work.*

## Skills:

*Statistics*:  Expert in data collection, study design, and inferential statistics. ***Machine Learning and other Techniques:*** Linear and Logistic Regression, ANOVA, K Nearest Neighbors, PCA, Decision Trees, Random Forest, Gradient Boosting, Bayesian A/B Testing ***Statistical Software and Programming:*** Python, Pandas, Spark, SQL, SPSS, Excel ***Visualization:*** Matplotlib, Plot.ly, Tableau

## Experience:

**Data Science Fellow - Galvanize (Sept 2018 - Dec 2018):**

• Conducted machine learning models to project sales, customer churn, detect fraud, and recommend new media for consumption. Utilized Regression, Gradient Boosting, Alternating Least Squares on AWS, and Random Forests.

• Created Run Recommender - a running route suggestor utilizing the Strava API (pnwrun.org).  Analyzed GPS coordinate data to suggest unique running routes matching user input metrics and plotted visible maps on working website.

**Technical Sales Engineer: Behavioral Neuroscience - Plexon, Inc (Oct 2015 – Sept 2018):**

• Global customer sales- increased sales conversions of product lines by 20% and boosted sales of products by $300,000

• Product management - Prioritized feature development, troubleshoot, and test video tracking software.  Spearheaded development of new technology - Multi-Fiber Photometry System

• Provided technical customer support for video tracking, optogenetics, and high-throughput neurophysiology software

**Post-Doctoral Fellowship and Graduate Work in Behavioral Neuroscience - Wake Forest University, University of Toronto, Seattle Children's Research Institute (2008-2015):**

• Independently conducted over 25 behavioral research studies - presented findings at over 12 international academic conferences and author of 8 peer-reviewed original research papers

• Developed novel paradigm for pre-clinical trials testing smoking cessation pharmaceuticals (e.g., varenicline)

• Expert in complex mixed-model regression and ANOVA for significance testing of multiple variables on behavior indicating addiction-like properties.  Also graduate training in psychometrics for survey design.

**Course Instructor - University of Toronto, Antioch University in Seattle (2013 – 2015) :**

• Managed classes of up to 200 students and 2 teaching assistants - independently prepared curriculum

• Expert in communicating complex technical information to technical and lay audiences

## Education

**PhD Psychology**: Brain and Behaviour Concentration: University of Toronto

**M.A. Experimental Psychology**: Wake Forest University

**B.S. Psychology**: Appalachian State University, *Minor: Mathematics*