

Kathryn Durham

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Data scientist with over 20 years of experience providing innovative quantitative solutions to Fortune 100 companies

Work History

1998 - 2019, held positions from Statistician to Director at Pfizer (1998 - 2012), Johnson and Johnson (2012 - 2018) and Boehringer Ingelheim (2018 - 2019)

2019 - present, Director and Founder, Viva Predictive Analytics LLC, <http://www.vivapredict.com>

Highlights

Currently working on inferential and predictive models for financial information including crypto currencies, real estate prices and GDP using a variety of machine and deep learning models to examine the effects of both economic predictors and business patterns.

Performed a variety of machine learning analyses to identify biomarkers that 1) speed up go/no go decisions for pharmaceutical compounds in development, 2) distinguish between subjects with and without a disease to identify effective drug targets, 3) facilitate clinical diagnoses, and 4) predict disease progression.

Designed and implemented Bayesian models in applications including 1) prediction of final results one year before study completion for a novel anti-viral compound, using observed interim analysis results along with historical standard of care information, and 2) projection of vaccine efficacy in human subjects where direct human trials were not possible.

Predicted key features of the competitive landscape at the time of product launch for a novel antibiotic.

Led a team of quantitative scientists supporting Translational Medicine and Early Development Statistics at a large pharmaceutical company.

Education

Ph.D. - Biostatistics

Emory University

M.S. - Statistics

University of Tennessee, Knoxville

B.S. - Mathematics

University of North Carolina, Chapel Hill

Computing

Analytics Software and Languages:

R (including RStudio, Shiny, tidyverse, caret)

Python (including Pandas, SciKit Learn, fastai)

Also:

HTML/CSS

LaTeX

Passed CFA Exams

Level I, December 2012

Level II, June 2014

Level III, June 2016

Online Portfolio

<http://www.vivapredict.com>