

BRADFORD TUCKFIELD

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PROFESSIONAL EXPERIENCE

Manager, Analytics and Algorithms

American Express Global Business Travel, 2018-Present
Automated detection of fraudulent and erroneous transactions
Leading development of a chatbot, including database integration and API deployment
Time-series analysis of sales volumes for econometric measurement of a new product's impact
Principal author for three patents under application with the USPTO

Senior Data Scientist

American Express Global Business Travel, 2016-2017
Prospecting for new customers by scraping public-facing online directories
Web app development for forecasting and natural language generation
Analysis of performance review data to improve recruiting and retention efforts
Designing and implementing fuzzy matching methods for transactions and peer benchmarking

Data Scientist

Berkadia, 2015-2016
Started a data science team – worked with CEO and CFO to guide company data strategy
Designed recommendation systems for real estate financing decisions and customer prospecting
Predicted revenue and property values using regressions and machine learning techniques
Wrote web scraping scripts for US Treasury data and public real estate data using R and Python

Consulting Analyst

Accenture, 2011 and 2012
Planned software testing for new HR system at a Fortune 500 firm and large government client

EDUCATION

Ph.D. Operations and Information Management

The Wharton School, University of Pennsylvania, 2012-2015
Research on statistical analysis of large economics datasets, published research in top journal
Peer reviewer for behavioral economics papers at *Management Science*
Teaching assistant for MBA-level negotiations and managerial decision making

B.S. Mathematics, *magna cum laude*

Brigham Young University, 2005-2011
Published a journal article, Teaching Assistant for Calculus I and II, Linear Algebra

SKILLS AND EXPERTISE

Programming languages: Python, R (and Shiny), Stata, SQL, Spark, JavaScript (and D3)
Data analysis, statistical modeling, machine learning, forecasting, visualization, experimental design
Full stack software development, including API deployment and Linux server administration
Advanced mathematical modeling including differential equations and latent variable models
Other languages: advanced Malay/Indonesian proficiency, some study of Mandarin Chinese

OTHER ACTIVITIES

Independent data science projects: medical diagnosis software, algorithmic forex trading
Maintaining data websites: Harga-Emas.net, PetaLokasi.org
Occasional public policy magazine articles in national periodicals