

BRADFORD TUCKFIELD

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PROFESSIONAL EXPERIENCE

Senior Data Scientist

American Express Global Business Travel, October 2016-Present
Chatbot development with Dialogflow
Prospecting via web scraping
Analytics using Python, Spark, SQL, for attrition modeling and forecasting
Designing and implementing fuzzy matching methods and dynamic benchmarking tools

Data Scientist

Berkadia, July 2015-October 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, May-August 2011, Jan.-August 2012
Planned software testing for new HR system at a Fortune 500 firm and large government client
Managed documentation of HR data flow between client and third parties

EDUCATION

Ph.D. Operations and Information Management

The Wharton School, University of Pennsylvania, 2012-2015
Research on statistical analysis of large economics datasets
Peer reviewer for behavioral economics papers at *Management Science*

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, HTML, CSS, JavaScript (and D3)
Data analysis, statistical modeling, machine learning, forecasting, visualization, experimental design
Other languages: Malay and Indonesian proficiency

SELECTED AWARDS AND GRANTS

Foundations of Human Behavior Research Grant (\$36K), 2015
Leonard Davis Institute Fellowship (health economics), 2014
Russell Ackoff Doctoral Student Fellowship (twice, \$5K total), 2013-2015
CS Training for Undergraduates in the Mathematical Sciences Fellowship (NSF) (\$10K), 2010

OTHER ACTIVITIES

Algorithmic forex trading
Maintaining data websites: Harga-Emas.net, PetaLokasi.org
Occasional public policy magazine articles in *The American Interest* and *National Affairs*
Freelance consulting for analytics projects and machine learning applications