(614) 495-6599 Westerville, Ohio bkweikel@gmail.com

Brian K. Weikel

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EDUCATION

Ph.D. Economics 2000 University of Illinois Champaign, IL M.S. Statistics 1999 University of Illinois Champaign, IL M.S. Economics 1994 Texas Tech University Lubbock, TX B.S. Economics, Magna Cum Laude 1992 Ohio State University Columbus, OH

PROFESSIONAL EXPERIENCE

Principal January 2023 — Present
Weikel Consulting Westerville, OH

- A boutique analytic consultancy primarily focused on measuring the causal effects of marketing, predictive analytics in support of marketing initiatives, and prescriptive analytics to identify a best course of action for a company to take with its marketing outlays.
- Also consults on the accuracy, completeness, consistency and validity of cross-media measurement metrics for data of varying collection mechanisms and transformation processes.

Senior Vice President, Global Research & Analytic Development Senior Vice President, Analytic Development Nielsen

2013 — 2022

August 2011 — 2012

Chicago, IL

- Recruited, managed, mentored, and led a department of 50 data scientists with advanced STEM degrees and
 software engineers on improving the lift measurement of distribution, assortment, traditional measured media, paid
 and viral social media, promotional offers, pricing, competitive effects and exogenous factors to increase future sales
 and profitability of clients.
- Developed automated and scalable model-based solutions to solve clients' business problems through complex
 econometric, statistical, and machine learning methods that include causal inference models, marketing mix models,
 customer segmentation, baselining, promotional lift models, transactional data analysis, hierarchical price and
 quantity index creation, classification and prediction via random forests and deep learning, randomized control
 trials, and marketing mix and price optimization.
- Partnered with the Product and Technology departments to implement, test, and deploy these models for use in the
 automotive manufacturing, retailing, consumer-packaged goods manufacturing, financial services, and
 pharmaceutical sectors in a modern web-based platform.
- Partnered with the Technology department to determine multi-tenant elastic computational requirements to meet service-level agreements for analytic products. For a specific analytic application this work included determining number of workers, cores per worker, worker memory and disk storage sizes. Also determined and launched cost-effective data storage solutions for the enterprise to meet service-level agreements.
- For R&D purposes investigated, developed, tested and deployed recent econometric, statistical, supervised learning and unsupervised learning modeling advances by staying current with recent industry-specific and academic research, attending seminars, holding symposiums, and identifying and vetting companies for corporate acquisition and data partnerships.
- Conducted research on privacy-preserving computational technologies. This research resulted in the company
 implementing a differential privacy solution so partners may use company proprietary data to conduct analytics,
 where results from these analytics are used to improve business operating practices and the effectiveness of their
 marketing activities.

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- Led multiple teams that implemented automated and scalable analytic solutions in cloud-hosted walled gardens provided by multiple digital platforms.
- Applied my knowledge of big data and analytics to determine the viability strategic business initiatives. These due diligence exercises led to the acquision of multiple big data and analytic start-ups.
- Budget and financial planning responsibility for Global Research & Analytic Development department.

Director, Advanced Analytics Director, Customer Marketing Analytics

2012 - 2013

2007 - 2008

L Brands

Columbus, Ohio

- Provided predictive and prescriptive analytic direction on execution of CRM programs for six retail brands: Victoria's Secret, La Senza, Bath & Body Works, Express, The Limited Stores, and Henri Bendel.
- Analytical efforts included measuring effectiveness of CRM marketing, measuring media, and pricing on awareness, consideration, purchase intent, customer recommendation, sales and profitability.
- Created and executed experimental designs to determine the effectiveness and efficacy of select marketing tactics.
- Designed brand tracker surveys and questionnaires to track brand equity measures across time and to identify tactics and messages that led to improving the measures.
- Hired, trained, managed, and mentored a team of 6 data scientists.

Senior Vice President, Consulting Services Director, Analytic Services

2008 — August 2011

2002 — 2007

Marketing Analytics, Acquired by Nielsen in August 2011

Evanston, IL

- Led a team of more than 30 data scientists and consultants on measuring the effectiveness of media, pricing and other client marketing efforts; annually completed more than 60 large-scale projects for more than 20 multi-billion dollar companies. Presented analytically based results and subsequent recommendations to high-level executives and stakeholders.
- Identified and scoped additional work opportunities with new and existing clients through networking and relationship building. Participated in all aspects of engagement planning, proposal development, presentation of proposals, and completion of sale.
- Planned and determined technology and labor resources to ensure timely and profitable project completion.
- Provided senior leadership and guidance on in-house developed historical and simulation tool applications.
- Assumed P&L responsibility for Consulting Services department.

Senior Statistician, Research and Development

2000 - 2002

Discover Financial Services, then a subsidiary of Morgan Stanley

Riverwoods, IL

- Developed customer segmentation models using various statistical analysis techniques including CHAID, multivariate, factor, cluster, discriminant, and univariate analyses.
- Designed response, price elasticity, revenue/profit, risk, attrition and anti-attrition, balance transfer, direct marketing, customer targeting, telemarketing, propensity to revolve, and value at risk predictive models using behavioral, historical, credit bureau, demographic, and transactional data in the context of acquisition, risk, and portfolio management.
- Analyzed and measured efficacy of promotional campaigns and target marketing through appropriate test designs and data analysis, and made strategic recommendations to improve marketing efforts.
- Expert in coding, extracting, consolidating and processing large volumes of transactional and non-transactional data from internal and external sources.
- Served as subject matter expert and resource to mentor junior statisticians, and communicated complex statistical findings to upper management in a non-technical manner.

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ACADEMIC EXPERIENCE

Adjunct Professor, Ross College of Business

2022 — Present

Columbus, OH

Franklin University

- Teach undergraduate and graduate-level courses on business analytics, data visualization, data wrangling, statistics, marketing analytics, causal inference, time-series analysis, predictive analytics, machine learning, deep learning, business research methods, and technology that is used to conduct business analytics.
- Cross-course analytic methods discussed and implemented include graphical and non-graphical exploratory data
 analysis, web analytics, regression, logistic regression, multinomial regression, design of experiments, multiple
 comparisons, multiple imputation, causal inference models, bootstrapping, classification and regression trees,
 random forests, neural networks, deep learning, topic models, clustering, principle component analysis, community
 detection, recommendation systems, and Bayesian inference.
- Redesign existing course curriculum and case studies by integrating recent cross-discipline methodological advances in causal inference, community detection, and deep learning.
- Redesign Google Analytics 4 web analytics curriculum module.
- Collaborated with 3 other faculty members on redesigning the educational technology integration course, which
 focuses on providing faculty the educational technology tools and information they may use to promote active
 learning in their courses.

TEACHING EXPERIENCE

Franklin University

Ross College of Business

Columbus, OH

- BUSA 603, Marketing Management & Analytics
 MS in Business Analytics Course
- BUSA 695, Capstone in Business Analytics
 MS in Business Analytics Course
- DATA 621, Advanced Analytics MS in Data Analytics Course
- MATH 601, Introduction to Analytics Graduate Course
- MATH 215, Statistical Concepts Undergraduate Course

Instructor

Spring 2023, Fall 2023, Spring 2024 Instructor

Fall 2023, Spring 2024

Instructor

Summer 2023

Instructor Spring 2023, Spring 2024

Instructor

Fall 2022, Spring 2023, Spring 2024

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University of Illinois

Department of Economics

Economics 502, Economic Statistics
 Master of Science in Policy Economics (MSPE) Course

 Economics 504, Time Series Analysis in Economics MSPE Course

 Economics 503, Econometrics MSPE Course

 Economics 535, Econometric Analysis II Doctoral Course

 Economics 532, Econometric Analysis I Doctoral Course

Economics 102, Microeconomic Principles
 Undergraduate Course

Texas Tech University

Department of Economics

 Economics 3311, Intermediate Macroeconomics Undergraduate Course

• Economics 2302, Principles of Economics II - Introduction to Macroeconomics Undergraduate Course

1994 - 1999

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Champaign, IL

Assistant Instructor Fall 1996, Fall 1997, Fall 1998, Fall 1999

Assistant Instructor Spring 1999

Spring 1995

Assistant Instructor Spring 1997, Spring 1998

Assistant Instructor

Spring 1996

Assistant Instructor

Fall 1995

Teaching Assistant Fall 1994, Spring 1995

1993 - 1994

Lubbock, TX

Instructor

Summer 1994

Instructor

Fall 1993 and Spring 1994

TECHNICAL REPORTS

- Burke, P., Hsu, K. Y., Karaoglan, L., Kodakkat, N., Lokhandwala, M., Lu, S., Mantha, S., Poortinga, V., Pourazarm, S., Saha, S. K., Wei, S., and Weikel, B. (2021). Data structuring, governance, hygiene, and quality control: A review and new ideas. Product Leadership GRAD Technical Report, Nielsen
- Do, A., Lu, S., Zhu, H., Mut, M., Wei, S., Lakshmanan, C., Poortinga, V., and Weikel, B. (2021). Lift accuracy and precision for the synthetic control method of Market Lift. Product Leadership GRAD Technical Report, Nielsen
- Feiger, D., He, Y., Im, J. K., Karaoglan, L., Mantha, S., Poortinga, V., Reynolds, T., Saha, S. K., Shah, S. B., Solana, J., Tang, L., Weikel, B., Xiao, Y., and Xu, J. (2016). Digital Media Consortium II. Product Leadership GRAD Technical Report, Nielsen
- Karaoglan, L., Weikel, B., and Xiao, Y. (2015). Aggregation bias in price, promotion and marketing mix modeling.
 Product Leadership GRAD Technical Report, Nielsen
- Lokhandwala, M., Mathew, D., Narayanan, S. P., Pourazarm, S., Shah, S., Tang, L., Vignesh, A., and Weikel, B. (2022). Plan Optimize Global Research & Analytic Development Nielsen Identity Engine Report. Product Leadership GRAD Technical Report, Nielsen
- Mut, M., , Lu, S., Zhu, H., Do, A., Lakshmanan, C., Wei, S., and Weikel, B. (2020). Market Lift synthetic control method's donor pool weight estimation methodology. Product Leadership GRAD Technical Report, Nielsen
- Poortinga, V. and Weikel, B. (2018). Guidelines for effective Nielsen Mix 2 CPG modeling. Product Leadership GRAD Technical Report, Nielsen
- Saha, S. K., Kellert, S., Kodakkat, N., Yildiz, S., Li, K., Li, L., and Weikel, B. (2019). Overview of Nielsen Audience Link incrementality measurement solution. Product Leadership GRAD Technical Report, Nielsen

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- Weikel, B. (2021a). Doubly robust estimation of causal effects for Nielsen MTA Lift and Buyer Lift. Product Leadership GRAD Technical Report, Nielsen
- Weikel, B. (2021b). Feature mismeasurement and effects on the predictive accuracy of supervised learners. Product Leadership GRAD Technical Report, Nielsen
- Weikel, B. (2021c). Mitigating the statistical consequences of inaccurate onboarding of impressions. Product Leadership GRAD Technical Report, Nielsen
- Weikel, B. (2021d). Notes on measuring the causal effect of marketing and observational data levels. Product Leadership GRAD Technical Report, Nielsen
- Weikel, B. (2022). Fusion as an analytic service: Discovery and recommendations. Product Leadership GRAD Technical Report, Nielsen

TALKS

TALKS	
Invited Talks	
Multi-Touch Attribution Challenges and Opportunities	Vanguard Group, Inc.
Valley Forge, PA	February 2020
The Synthetic Control Method and Causal Inference	Google
Mountain View, CA	June 2019
Doubly Robust Estimation of Advertising Effectiveness	Walmart Inc.
San Jose, CA	February 2019
Marketing Effectiveness Measurement Methods	Hulu
Los Angeles, CA	February 2018
 Advertising Effectiveness Measurement using Intent-to-Treat and Ghost Ads 	Snapchat
Santa Monica, CA	January 2018
Multi-Touch Attribution Methods	The Coca-Cola Company
Atlanta, GA	August 2018
Nonlinear Advertising Response and Approximations	Johnson & Johnson
New Brunswick, NJ	January 2017
Marketing Effectiveness Measurement Methods	Meta (previously Facebook)
Menlo Park, CA	October 2016
Causal Inference via Observational Data Methods	The Proctor & Gamble Company
Cincinnati, OH	August 2016
 Propensity Scores, Inverse Probability Weighting, and Advertising Effectiveness 	iHeartMedia, Inc.
New York, NY	February 2016
Price Discounting and Brand Equity	The Clorox Company

Industry Talks

Oakland, CA

New York, NY

 Sub-Minute TV Ratings and Advertising Effectiveness New York, NY

• Digital Media Consortium II Chicago, IL

• Statistics and Retail Analytics

Council of Research Excellence January 2017

January 2011

March 2009

Avon Products, Inc.

Nielsen sponsored 12 Events between February 2015 and August 2016 (614) 495-6599 Westerville, Ohio bkweikel@gmail.com

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• Re!Think Conference Advertising Research Foundation New York, NY March 2016 • Marketing Mix Modeling Summit Google New York, NY January 2016 Audience Measurement Methods Advertising Research Foundation New York, NY June 2014 Digital Media Consortium I Nielsen sponsored October 2013 Chicago, IL • Marketing Effectiveness Measurement Methods Advertising Research Foundation New York, NY April 2008 • Direct Response Prediction Methodologies **Association of National Advertisers** New York, NY February 2008

SKILLS

Tools and Languages Git, Gurobi, Keras, ŁTEX, Markdown, Mathematica, Matlab, Python, R, SAS,

SQL, TensorFlow

Operating Systems AWS, Azure, Linux, Mainframe, UNIX, Windows

ERP, OLAP & Project Management Access, Agile, Apache Superset, Business Objects, Google Workspace,

Canvas Learning Management System, Jira, Microsoft Office Suite,

Microstrategy, Tableau

Web Analytics Google Universal Analytics, Google Analytics 4

PROFESSIONAL MEMBERSHIP

American Economic Association American Statistical Association

MILITARY EXPERIENCE

U.S. Air Force/Ohio Air National Guard

1986 - 1992

REFERENCES

Anh Do, PhD anh.trang.thi.do@gmail.com

Decision Scientist, Meta Menlo Park, CA

Sepideh Pourazarm, PhD sepideh.pourazarm@walmart.com,

Senior Manager of Data Science, Walmart Connect San Bruno, CA

Shweta Shah, PhD shweta.bs@gmail.com

Vice President, Nielsen Morton Grove, IL

Ross-boy Link ross@mktatt.com

CEO, Marketing Attribution Evanston, IL

John Mansour, PhD jp.mansour@comcast.net

Independent Consultant Aurora, IL