

Data Scientist, Advanced Analytics Leader

Data Engineering

Data Science

Business Insights

Leadership

Project Management



A strategic and analytical leader skilled in navigating complex data landscapes to uncover actionable insights and drive business impact. With a balance of technical expertise and business acumen, I ensure every data point contributes to a compelling, data-driven narrative that empowers organizations to make informed decisions.

EXPERIENCES

Manager, Advanced Analytics Modeling

Horizon Next - Since October 2023



- Optimize the allocation of media spend across multiple channels and publishers by assessing the impact of paid TV, Search, Social, and Digital media campaigns and creative elements on conversions using Multiple Linear and Bayesian regression modeling.
- Conduct Incrementality Analysis to measure the potential impact of additional media channels before larger-scale implementation using statistical techniques to select proper test and control markets, to ensure adequate statistical power, and to run a counterfactual analysis.
- Ensure data relevance and accuracy by working closely with the business science and data engineering teams to use the right metrics for data analysis and verify that those metrics trend as expected.
- Create a robust foundation for advanced analysis by developing R and Python scripts in collaboration with the data engineering and business science teams to analyze ad campaigns performance and support clients' goals.
- Support junior members of the team by training them on how to run existing and ad hoc analyses requested by clients and our business science teams.

Director, Analytics

big - Horizon Media - May 2022 to July 2024



- Enhanced data integrity and accuracy by setting up and managing an Amazon Redshift database in partnership with the data engineering team and getting data feeds implemented – pulling in data from multiple data sources for our clients.
- Reduced hours of analytics work to seconds by using R and Python to build data products and tools for the team, which helped streamline the selection of test and control markets, run causal impact analyses, build multi-touch attribution models, and run multiple linear regressions to evaluate impact of media campaigns and creatives on performance.
- Revamped the reporting process by building insightful Tableau and Power BI dashboards using tables and views from the Amazon Redshift database, freeing up the team's time as they would no longer need to spend dozens of hours each week preparing the data and building the report in Microsoft Excel.
- Ensured data availability by working with the strategy and data engineering teams, as well as clients and data partners to agree on the data fields needed, ways to capture and pull them into the database (API, FTP, Amazon S3, and/or Excel File Sharing) as well as cadence of data refreshes.

SKILLS

Professional Competencies

- Leadership
- Cross-Functional Team Collaboration
- Project Management
- Strategic Planning
- Stakeholder Management

Data Science

- Matched Market Analysis
- Causal Impact Analysis
- Regression Analysis
- Multi-Touch Attribution Models
- Statistical Power Analysis
- Customer Lifetime Value Analysis
- Other Machine Learning Models

Visualization & Reporting

- Tableau
- Power BI
- Google Looker Studio

Data Engineering



- SQL
- R
- Python
- Knime
- ETL Pipelines
- Database Management
- dbt
- AWS Redshift
- Docker
- Kubernetes
- Microsoft Excel

Data Products/Apps Development

- Shiny (with R)
- Streamlit (with Python)

- Enabled seamless deployment and accessibility by containerizing web applications with Docker and orchestrating their publication using Kubernetes, ensuring the Business Strategy team could efficiently access and utilize them.
- Conducted training sessions and facilitated knowledge sharing to increase the team's skills set and efficiency by creating various PowerPoints and documentations on programs such as MS Excel, Knime, Tableau, and statistical models.

LANGUAGES

-  English ★★★★★
-  French ★★★★★

Director, Data Performance

McCann Health Engagement - February 2021 to May 2022



- Saved the company over \$100,000 annually by developing a full-service analytics infrastructure using R, SQL, and Power BI, eliminating the need for costly third-party software.
- Created interactive Power BI reporting enabling seamless data flow from source to reporting by designing, implementing, and maintaining end-to-end data pipelines—developing R scripts for API data extraction, and loading data into SQL Server.
- Established data interface for clients to pull reports through Plumber package by developing a secure web API using R to facilitate data sharing from MHE's database.
- Improved advertising campaign performance by analyzing key performance indicators (KPIs) in social media post impressions and identifying optimization opportunities.
- Ensured seamless project execution and success by leading cross-functional collaboration between internal teams and external business partners.
- Drove successful business outcomes for clients by spearheading and managing multiple projects in a fast-paced, results-oriented environment. Carrying an average of 3 clients each week.

Manager, Business Insights

m/Six - November 2019 to January 2021



- Increased media effectiveness for \$2M client campaigns by analyzing both campaign performance metrics and brand lift study results and providing strategic recommendations to planning and activation teams.
- Aligned global media measurement strategies with regional goals by collaborating with EA teams across NA, LATAM, EU, and APAC to understand their objectives, coordinate brand lift study setup, and tailor reporting to drive region-specific insights and performance improvements.
- Conducted market research to improve brand health and consumer behavior measurement by collaborating with data partners (Kantar, Facebook, Twitter, Google, Snapchat, Twitch) to identify and implement relevant studies such as Context Lab Studies and larger scale Brand Lift Studies depending on client goals.
- Trained junior team members in Excel and Power Query, significantly reducing the number of hours needed to prepare the data and report on campaign performance learnings.

Supervisor, Data & Analytics

Carat - April 2018 to October 2019



- Enhanced team expertise and efficiency by training direct reports in R's advanced statistical capabilities and SQL, equipping them with the skills to analyze campaign performance, troubleshoot reporting issues, and develop data-driven solutions.
- Optimized cross-channel performance tracking by automating monthly reporting for TV, Print, Search, Social, Programmatic, and Digital channels, leveraging Amazon Redshift SQL views and Tableau to reduce manual effort and enhance data accessibility.

- Implemented a structured QA process across multiple sources, while proactively resolving inconsistencies by diagnosing reporting and API issues. Collaborated with data providers to standardize data taxonomy and integration.
- Identified inefficient conversion campaigns where shifting dollar spend to a more efficient campaign drove 35% more conversions.

Senior Analyst, Performance Insights

Omnicom Media Group - October 2016 to April 2018



- Saved 600+ hours of labor annually by automating repetitive tasks with R, Macros, and Excel VBA, accelerating data transformation and analysis for media teams eliminating time consuming Excel reporting.
- Enhanced attribution modeling accuracy by implementing a Markov Chain-based approach, shifting from heuristic last-touch attribution to a probabilistic model that better mapped customer journeys.
- Strengthened media performance measurement by analyzing key KPIs (ratings, impressions, unique visits, and spend) and delivering year-over-year TV network trend reports to support media planning.
- Improved proprietary analytics tools by testing updates, identifying gaps, and driving enhancements to optimize functionality and usability.

Analyst, Data Integration


Wavemaker (Rebranded from MEC) - October 2015 to September 2016




- Optimized media cost analysis and campaign spend tracking by automating weekly dynamic cost deliverables for cross-channel attribution and conducting quarter-over-quarter and year-over-year analyses of GRPs, spend, and impressions, leading to more efficient budget allocation and performance insights.
- Streamlined data ingestion and ensured accurate predictive analysis for AT&T's Marketing Mix Modeling (MMM) by using Microsoft Power Query to process measurement feeds, improving data integration and reliability.
- Enhanced competitive intelligence and media planning by compiling engagement reports on AT&T and its competitors' social media presence, providing actionable insights that informed strategic decisions.
- Increased efficiency in media cost analysis and reporting by automating dynamic cost computations and streamlining Local Cable TV spend calculations, significantly reducing manual effort and enhancing data accuracy.

CERTIFICATIONS

 **Excel Regression Models for Business Forecasting Jan 2, 2024**
[\(View certification\)](#)

 **Customer Experience: Journey Mapping May 8, 2022**
[\(View certification\)](#)

 **Machine Learning for Marketing: Essential Training Apr 25, 2022**
[\(View certification\)](#)

 **Marketing Attribution and Mix Modeling Apr 21, 2022**
[\(View certification\)](#)



Supervised Learning in R: Classification May 1, 2018

[\(View certification\)](#)



DAT204x: Introduction to R for Data Science Nov 15, 2016

[\(View certification\)](#)



DAT208x: Introduction to Python for Data Science Sep 5, 2016

[\(View certification\)](#)

EDUCATION

Master of Business Administration

LUBIN SCHOOL OF BUSINESS, PACE UNIVERSITY

Majors:

- Financial Management
- Management Information Systems

Bachelor of Business Administration

ZICKLIN SCHOOL OF BUSINESS, BARUCH COLLEGE

Major: Finance and Investments