

# Michael D Johnson

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Aliso Viejo, California

<https://mdjhnsn.github.io>

## Summary

Experienced data scientist, skilled in predictive modeling, DevOps, and database engineering; developer of scalable ML applications that deliver measurable business value.

## Education

Master of Science in Statistics, *Texas A&M University* (2014-2017)

Master of Arts in Economics, *The George Washington University* (2011-2013)

Bachelor of Arts in Literature, *University of California, Santa Cruz* (2000-2004)

## Technologies

AWS, Docker, Python, Spark, R, Tableau, Excel, Jupyter, Plotly, Shap, Git, Bash, SQL Server, Postgres, MongoDB, Elasticsearch, Redis, Deep Learning (CNNs, RNNs, LSTM), Unsupervised Learning (Clustering, PCA, Autoencoders), Gradient Boosting (Adaboost, XGBoost, LightGBM)

## Experience

Data Science Contractor, *Evolus Inc, Newport Beach CA* (Nov 2020-Jul 2021)

- Provided analytics engineering support for digital products and marketing.
- Integrated siloed data sources using Snowflake cloud data warehouse.
- Orchestrated and monitored multiple data feeds for analysis and reporting.
- Developed mathematical models to frame business problems and align on strategy.
- Improved existing analytics assets to facilitate agile workflows and rapid iteration.
- Segmented customers for model-based optimization of marketing communications.
- Curated datasets for analysis and collaborated with SMEs to set KPI goals.

Data Science Consultant, *Aviana Global Technologies, Brea CA* (Jan 2019-Oct 2020)

- Served as technical lead on analytics projects for several large companies.
- Deployed churn modeling solutions for vision care company VSP Global.
- Extracted and modeled NLP data for iHeartMedia using Pandas and Pytorch.
- Wrote shareable Python applications to support audits for Renew International.
- Improved ETL pipelines using Spark and Databricks for Pearson Education.
- Created graphical user interfaces for custom analytics software products.
- Helped junior developers produce value in each stage of the ML lifecycle.

Senior Data Scientist, *MINDBODY Software, Irvine CA* (Apr 2018-Dec 2018)

- Designed and led analytics projects in collaboration with IT and product teams.
- Architected ETL pipelines to run complex SQL against enterprise data warehouses.
- Developed template workflows in Jupyter and Alteryx to assist junior analysts.
- Deployed batch scoring models and pushed scores to Salesforce via API.
- Monitored training and testing of machine learning models with MLflow.
- Helped implement rapid prototyping and agile methods for business analysis.
- Managed simultaneous modeling projects using Azure DevOps.

Data Scientist, *Hanover Research Council, Washington DC* (Jul 2013-Mar 2018)

- Designed and managed complex market research projects.
- Analyzed large semi-structured datasets spanning a variety of industries.
- Built prototype predictive models for deployment using h2o DriverlessAI.
- Created dashboards and interactive reports using Tableau and PowerBI.
- Designed statistical tests to help gauge and improve response rates.
- Helped the company transition digital assets to distributed cloud storage.
- Served as consultant and technical advisor for research project managers.
- Developed and deployed production code using GitHub and Jenkins.
- Trained and tested predictive models using Python and R.

Research Economist, *US Treasury Department, Washington DC* (Jul 2012-Jun 2013)

- Forecast currency swaps and short-term financing rates.
- Monitored international financial markets using Bloomberg Terminal.
- Conducted economic research on interest rates and foreign exchange.

Economist Assistant, *NBER, Washington DC* (Oct 2011-Jun 2012)

- Supported data processing and analysis for Dr. Graciela Kaminsky.
- Constructed original datasets using primary source historical bond issuances.
- Drafted memos in Word; visualized data in Excel; made slides in PowerPoint.

## References

Bill Moore, VP of Information Technology at Evolus ([bill.moore@evolus.com](mailto:bill.moore@evolus.com))

Ryan Zynkian, Contract Liaison for Evolus ([rzynkian@eastridge.com](mailto:rzynkian@eastridge.com))

Avijit Datta, Co-Founder and CEO at Aviana ([avijit@avianaglobal.com](mailto:avijit@avianaglobal.com))

Paul Patterson, Sr Director of Data Science at Aviana ([paulp@avianaglobal.com](mailto:paulp@avianaglobal.com))

Alan Cordell, Sr Director of Data Science at VSP ([alan.cordell@vspglobal.com](mailto:alan.cordell@vspglobal.com))

Alex Soria, VP of Analytics at MINDBODY ([alexander.soria@mindbodyonline.com](mailto:alexander.soria@mindbodyonline.com))

Molly Hamilton, Sr Research Manager at Hanover ([mhamilton@hanoverresearch.com](mailto:mhamilton@hanoverresearch.com))

Atticus Weller, Deputy Director of International Affairs at Treasury ([Atticus.Weller@treasury.gov](mailto:Atticus.Weller@treasury.gov))

Penny Jackson, Statistics Program Manager at Texas A&M ([pjackson@stat.tamu.edu](mailto:pjackson@stat.tamu.edu))

Suojin Wang, Ph.D., Professor of Statistics at Texas A&M ([sjwang@stat.tamu.edu](mailto:sjwang@stat.tamu.edu))

Graciela Kaminsky, Ph.D., Professor of Economics at GWU ([graciela@gwu.edu](mailto:graciela@gwu.edu))

Robert Savickas, Ph.D., Professor of Finance at GWU ([savickas@gwu.edu](mailto:savickas@gwu.edu))

## Certifications

- GCP - Prof ML Engineer (2021)
- AWS - Big Data Specialist (2019)

## Memberships

- PyData (2019)
- American Statistical Association (2015)

## Links

<https://github.com/mdjhnsn>

<https://twitter.com/apanelofsky>

<https://www.linkedin.com/in/data-arts-data-science>