



# Michael Mullarkey

## Director of Data Science

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📍 Lab for Scalable Mental Health

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## About me

Michael is a clinical psychology PhD with expertise in data science and scaling mental health supports.

## Education

2014-2020 PhD - Clinical Psychology University of Texas at Austin

2011-2013 MA - Clinical Psychology American University

2008-2011 BA - Psychology American University

## Work Experience

2021- Director of Data Science Lab for Scalable Mental Health

2020-2021 Principal Data Scientist Lab for Scalable Mental Health

2019-2020 Consulting Data Scientist Institute for Mental Health Research

2019-2020 Data Scientist Lab for Scalable Mental Health

## Selected Projects

- Created an automated screener for suicidality in text data using boosted tree and neural network models that saved 20 hours of “by hand” work per week: [Link to Code on Github](#)
- Developed a scalable time series forecasting pipeline using tsfresh feature engineering and a random forest algorithm versatile enough to be used across multiple organizations: [Link to Code on Github](#)
- Designed, engineered, and analyzed nationwide (USA) A/B tests for scalable mental health supports that improved mental health 3 months later in teenagers: [Link to Code on OSF](#)
- Built a Shiny dashboard to track available data for mission-critical projects according to stakeholder identified criteria, used at least once weekly within the organization: [Link to Code on Github](#) | [Link to Shiny App](#)
- Gave invited presentations at national conferences on how to create reproducible workflows that resulted in a >90% sign-up rate for reproducible workflow tools: [Link to Presentation Slides](#)

## Skills

- Expert in R/RStudio (tidyverse, tidymodels, ggplot2, Shiny, R Markdown)
- Expert in experimentation, multivariate data analysis, and regression
- Expert in managing multiple simultaneous projects
- Familiar with Python (numpy, pandas, scikit-learn, keras, TensorFlow)
- Familiar with SQL
- Familiar with git and Github
- Familiar with time series forecasting

## Other Information

- Published >20 technical papers, cited > 1,300 times
- Wrote two open source mental health treatment manuals that have been downloaded >1,500 times (including a Dutch translation)
- Co-wrote a mental health workbook for teens that debuted as the #1 new release in the teen/young adult mental health category on Amazon
- Placed 2nd in the regular season of SLICED, a live-streamed data visualization and machine learning competition on Twitch
- Created this resume using the vitae package in R, code available [here](#)
- Got assistance from my cat Boo because her code review respects piping