

# Michael Riley

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✉ [troutmikeriley@gmail.com](mailto:troutmikeriley@gmail.com) ☎ 516-672-2690 🌐 [github.com/mbriley](https://github.com/mbriley)

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## Experience

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### Senior Process Engineering Data Analyst

February 2018 - Present

*Memorial Sloan Kettering Cancer Center, New York, NY*

- Collected, analyzed, and presented data on hospital operations to Executive Leadership. Results informed both short and long term investments in mission critical capacity enhancements.
- Performed statistical analyses of multiple clinical initiatives in collaboration with clinicians and administrators. Results helped ensure that our initiatives improved operational efficiency without harming patient outcomes.
- Provided data processing and analytical support for dozens of process improvement projects and initiatives. Trained and mentored Process Engineers, Project Managers, and other analysts on SQL, R, and Git.
- Collaborated actively with data analysts across the organization. Developed functionality and approved pull requests for submissions to internally maintained R package.

### Data Scientist

September 2017 - January 2018

*Mattersight Corporation, Chicago, IL*

- Developed and contributed to internal R package for data processing, model fitting, and prediction.

### Data Scientist

July 2015 - August 2017

*University of Chicago Urban Labs, Chicago, IL*

- Trained, evaluated, and analyzed predictive models on multiple large administrative datasets using Machine Learning algorithms and regression techniques.
- Conducted statistical analyses and created data visualizations for review by government agencies, academic partners, and philanthropists, as well as for academic and mainstream publications.
- Recruited, interviewed, and oversaw work of research assistants and junior data analysts.

### Economist

October 2008 - August 2013

*American Society of Composers, Authors, and Publishers*

- Oversaw the design and implementation of a quarterly survey of musical works performed over Internet licensees. Assisted in the design of a survey of musical works performed over Television and Radio.
- Contributed to the distribution of license fees to over 400,000 members based on survey results.

## Education

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### University of Chicago, Harris School

2013 - 2015

*Masters in Public Policy*

### New York University, College of Arts and Sciences

2004 - 2008

*Bachelor of Arts, Cum Laude. Economics and Music*

## Technical skills

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- Data manipulation and analysis - advanced R (tidyverse, data.table), intermediate Python (Pandas, NumPy), 10+ years SQL.
- Machine Learning - caret, xgboost, glmnet, randomForest, scikit-learn.
- Data Visualization (ggplot2, htmlwidgets, beginner D3).
- Reproducible research and version control (Git, RMarkdown).