

# Jordan Myerowitz

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## Business Analytics | Data-Driven Strategy | Problem Solving & Communication

Versatile and innovative data scientist with the ability to implement novel analytic strategies to generate solutions to complex problems. Equipped to make quantitative insights and visualizations geared towards real-world problems. Strong knowledge and prior experience in the Healthcare Industry.

### Areas of Expertise:

Statistical Programming (R & Python), Data Cleaning, Data Visualization, Data Mining & Machine Learning, Healthcare, Biology

- **Programming:** Python (NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn, Keras), R (GGplot, Shiny, Dplyr, Lubridate, Stringr, TidyR, Leaflet), SQL, SAS
  - SAS Programming 1: Essentials and SAS Programming 2: Data Manipulation Techniques
- **Machine Learning/Statistics:** Classification, Regression, Clustering, Dimension Reduction, Feature Engineering, Hypothesis Testing, Natural Language Processing
- **Software:** Tableau, Power BI, R Studio, Anaconda, JMP Pro, MariaDB/HeidiSQL, Microsoft Excel, PowerPoint, Word
- **Business:** Communication, Collaboration, Critical Thinking, Decision Making, Problem Solving, Agile Aware
- **Certifications:** LEAN/Six Sigma Yellow Belt

### Education:

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#### University of New Hampshire, Durham, NH, USA

- **Master of Science in Analytics;** *May 2020* GPA: 4.0  
Dinesh Thakur Health Analytics Scholarship; Data Driven Women

#### University of Maine, Orono, ME, USA

- **Bachelor of Science in Biology;** *May 2013* GPA: 3.89  
Summa cum laude; Minors in Chemistry and Spanish; Dean's List; Phi Beta Kappa Society; National Society of Collegiate Scholars

### Professional Experience

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#### Data Science Consultant, Martin's Point Health Care, Portland, ME *Nov. 2019 – Present*

- Current student team project working to balance patient load between providers at several primary care locations, increase provider utilization to 85%, and create a model with dashboards to effectively balance provider schedules to meet demand.

#### Data Science Consultant, NH Department of Health & Human Services, Concord, NH *Dec. 2019 – Present*

- Working as part of a team of students, examining multiple data sources for the NH DHHS to evaluate potential correlated/overlapping data sources vs. unique and independent data points. Project is ongoing.

#### Analytics Intern, University of New Hampshire, Durham, NH *Aug. 2019 – Present*

- Working for Career and Professional Success (CaPS), streamlined and automated monthly reporting strategies via Python programming and Jupyter Notebooks.
- Generated and compiled insightful reports regarding student engagement in with CaPS services by major and class using Tableau and Excel.
- Analyzed and summarized student and employee satisfaction for UNH's Fall Resume Review Day and Fall Career Fair.

- Designed Tableau dashboards to facilitate internal understanding of student engagement on campus.
- Cleaned, visualized, and interpreted First Destination Survey data of the UNH Class of 2019 by college, department, and major.

**Health Analytics Teaching Assistant**, University of New Hampshire, Durham, NH *Aug. 2019 – Dec. 2019*

- Working for the College of Health and Human Services (CHHS), guided approximately 40 undergraduate students in analytical principles in the healthcare field.
- Instructed students on useful techniques in JMP software for health analytics.
- Evaluated students on their competency of the above principles and use of techniques.

**Project Experience** See blog posts for more: <https://jmyerowitz.github.io>

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**Data Science Summer Practicum**, University of New Hampshire, Durham, NH *Jul. 2019 – Aug. 2019*

- Working with a team of students, analyzed and narrowed project focus regarding the General Social Survey (GSS) at the University of Chicago.
- Using JMP, engaged in extensive data cleaning and recoding, equivalating different Likert-scale questions presented by the GSS to a more manageable and comprehensible dataset.
- Using K-Means clustering, created blocs of American citizens that were overlaid with political affiliation, generational identity, and political landscape of the United States.
- Constructed Tableau visualizations to highlight differences in opinions of American blocs from the 1970s to today.

**Amazon Customer Reviews: Predicting 5-Star Review Rating** *Dec. 2019*

- Performed preliminary sentiment analysis using TextBlob and Vader Python packages.
- Created features spaces for machine learning via Document-Term Matrices from stemmed Amazon reviews in order to extract top 1000 tokens of 3 million review dataset (randomly sampled for 100,000 reviews).
- Performed 3 dimension-reduction techniques to (PCA, Sparse PCA, UMAP) in order to perform machine learning algorithms.
- Conducted multiple machine learning algorithms (KNN, Random Forest, Gradient Boost, XGBoost) for classification purposes and to predict star-rating based on token frequencies.

**Traffic Hackathon: Traffic Tickets and Demographics of Ticket Receivers in the State of NH** *Jul. 2019*

- Analyzed traffic stop data published by the New Hampshire State Police.
- Using GGplot2, Dplyr, and Leaflet, created a presentation with summary demographic statistics and maps of traffic stops in the state of NH.
- Insights included the geographic area of highway stops precipitated by airplane radar, and frequency of stops by gender, age, race, and county.

**Lending Club: Analyzing the Data on Lending Club's Financial Scandal** *Aug. 2019*

- Analyzed Lending Club data from 2012-2017, with a specific focus on years 2012- 2014 and 2015 – 2017 (before and after Lending Club's IPO)
- Using NumPy and Pandas, reduced dimensions and conducted PCA on dataset in order to employ K-Means clustering on loan profiles before and after Lending Club's IPO.
- Insights included increased number of loans after the IPO, along with more unrestricted loan authorizations.

## Additional Experience

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**Patient Care Coordinator**, Cape Integrative Health, Cape Elizabeth, ME *Sept. 2016 – May. 2019*

Acted as coordinator and liaison for patient scheduling and insurance. Coordinated with providers to create referrals, schedule and authorize advanced imaging and blood tests, and schedule treatment.

**English Language Assistant**, ESL/EFL Industry, Madrid, Spain *Oct. 2015 – Jul. 2016*

Integrated into the Spanish School system and acted as liaison between American culture and Spanish culture for both teachers and students whilst crafting and leading lessons involving English for ESL learners.