

Dakota L. Denison

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<https://github.com/denisond>

Education

University of Michigan, Ann Arbor, Michigan
College of Literature, Science, and the Arts
Bachelor of Arts in Economics, minor in Mathematics.

September 2013 – May 2017

Waseda University, Tokyo, Japan
Economics, Business, and Japanese Courses

June 2016 – July 2016

Wayne State University, Detroit, Michigan
College of Fine, Performing and Communication Arts
Bachelor of Music, Jazz Studies

September 2011 – May 2013

Professional Experience

MDRC, New York, New York
Statistical Programmer

March 2018 – Present

- Writing code in SAS and SQL to clean large datasets—restructuring, missing-data imputation, and standardization.
- Running hierarchical linear models on nested data to determine impacts from randomized control trials of education policy programs.
- Preparing graphs and tables to present data distributions, descriptive statistics, and impact findings (i.e. effect size, p-value, etc.) to other data team members.
- Creating codebooks and technical memos that document data processing decisions and summarize data quality.

Department of Economics at the University of Michigan, Ann Arbor, Michigan
Research Assistant

July 2017 – March 2018

- Cleaned and analyzed noisy, heterogeneous cost data sets from the National Residential Efficiency Measures Database.
- Wrote programs in Stata to predict how consumer decisions to invest in air conditioners, heaters, insulation and windows respond to extreme weather.
- Produced cost estimates for upgrading durable household investments to technological frontier and other efficiency standards.

Private Tutor, Ann Arbor, Michigan

August 2015 – May 2017

- Tutored other undergraduate students at the University of Michigan.
- Courses: Calculus I-IV, Linear Algebra, Probability Theory, Real Analysis, Game Theory, and Econometrics II.

Allstate Insurance, Farmington Hills, Michigan
Finance Intern

May 2015 – August 2015

- Wrote VBA Macros for master log of spreadsheets that pulled billing data from 1000+ unorganized billing sheets, expediting 80+ hours of claim processors' work every 6 months as well as streamlining daily tasks for the entire MACP department.
- Collaborated with financial analysts, and leaders in various departments, assisting in the analysis, cleaning, and organization of financial data and daily reports.

Denison Consulting, Ann Arbor, Michigan
Research & Development Intern

June 2014 – September 2014

- Led the develop of a social media-based mergers and acquisitions due diligence offering.
- Performed descriptive and multivariate statistical analyses of clients' culture survey results with SPSS and Python.
- Prepared, manipulated, and managed extensive normative databases for 50+ companies' culture survey scores.

Personal Projects

Personal Website (denisond.github.io)

March 2019 – Present

- Short bio and links to other personal projects including Jupyter notebooks for data science competitions, investment strategies, and an Elo rating web app for NCAA men's basketball; projects' code and in-depth descriptions also listed on my [GitHub](#).

Live Jazz Calendar Web Application (<https://www.nycjazztonight.com/>)

February 2019 – Present

- Wrote Python code using BeautifulSoup4 to scrape data from ~15 popular NYC jazz clubs.
- Used python packages RegEx and pandas to clean and restructure jazz club data into data frame indexed by date and time.
- Deployed a Linux server to host Flask web application and execute the web scrapers nightly.

Programming Languages and Tools

- **Languages:** CSS, HTML, LaTeX, Python, R, SAS, Stata, SQL, Wolfram Language.
- **Tools:** BeautifulSoup4, crontab, DigitalOcean, Excel, Flask, GitHub, Jupyter Notebook, Keras, Linux, matplotlib, Mathematica, NumPy, pandas, Plotly, RegEx, R Studio, scikit-learn, SciPy, Seaborn, SPSS, Stata, WinSCP.

Activities

Volunteer for Ann Arbor Public Schools Music Program

June 2011 – July 2015

Assistant Director

- Instructed small ensembles and jazz orchestras for 50+ youth.
- Gave private lessons for specific instruments (saxophones, clarinet, flute, and piano).
- Used music software to compose, orchestrate, and arrange music for program ensembles.