

# STEPHANIE RICHARDS

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## SUMMARY

Data analyst with a background in the arts and performance, excited to use data to tell compelling stories about the world around us. Highly skilled in logic, troubleshooting, and problem-solving, with a strong ability to be self-reliant. Adept at working both alone and in teams to solve complex problems in a timely manner. Able to communicate clearly with a broad range of audiences, with the nuance required to tailor a message to those who need to understand it. Driven, curious, and eager to learn new skills.

## TECHNICAL SKILLS

**Programs:** MS Excel, MS Word, Tableau, GIMP, MongoDB, Google Suite

**Languages:** VBA, Python, SQL, noSQL, HTML, CSS, JavaScript

**Tools:** Statistical software modules: Pandas, Matplotlib, Numpy, SciPy, scikit-learn, R

Others: Flask, PostgreSQL, Bootstrap, D3, Plotly, Leaflet, GitHub

## EDUCATION

**Data Visualization & Analytics Certificate: University of MN, St. Paul, MN** 2021

A 24-week intensive program focused on gaining technical programming skills in Excel, VBA, Python, R, JavaScript, SQL Databases, Tableau, Big Data, and Machine Learning.

**Bachelor of Arts: Macalester College, St. Paul, MN**

Double major in English and Theater Arts, *Cum Laude*

## PROJECTS

**A Shortcut to Mushrooms** | <https://a-shortcut-to-mushrooms.herokuapp.com/> | [https://github.com/lauragabrielson/Mushroom\\_Classifier](https://github.com/lauragabrielson/Mushroom_Classifier)

- This project uses machine learning to classify mushrooms as edible or poisonous.
- Role: subject matter expert and project lead; fabricated a new data set based on research from Phillips University in Marburg, Germany. Used Python and Pandas to run different machine learning models on data, and contributed analysis and some code to the website.
- Tools: Python 3, Pandas, SciKit-Learn, Tensorflow, D3, Javascript, HTML/CSS. Dataset from The Mushroom Project (<https://mushroom.mathematik.uni-marburg.de/>).

**niceride Ridership and Covid-19 Impacts** | <https://github.com/luchovzla/project-1>

- This project looked at the impacts of the Covid-19 pandemic on user behavior of niceride bike rentals in comparison to previous years.
- Role: all data cleaning and alignment, and all of the analysis of the daily patterns of usage against a timeline of major events and weather conditions in 2020.

- Tools: Python 3, Pandas, and Matplotlib in a Jupyter Notebook, with support from Google Maps API and NOAA Weather Data.

### **US Public Library Dashboard | [https://github.com/lauragabrielson/Libraries\\_Project](https://github.com/lauragabrielson/Libraries_Project)**

- This project examined statistics and analysis about public library systems in the United States.
- Role: structuring the dashboard and building the website, JavaScript applications.
- Tools: Python 3, Pandas, Leaflet, Plotly, D3, Bootstrap, HTML/CSS, and Javascript, with a dataset from Kaggle.

## **EXPERIENCE**

**University of Minnesota - IPUMS** 2021-present  
**Data Analyst - USA Cross-Project Team**

**Guthrie Theater** 2006-2021  
**Lead Light Board Operator (2012-2021)**  
**Light Board Operator / Electrician (2006-2012)**

*As lead:*

- Oversaw crews to accomplish production objectives on time and on budget.
- Mentored younger technicians to increase their skills as electricians and light board programmers.
- Encouraged the department to adopt newer green products and procedures to reduce energy consumption and lower costs.

*All roles:*

- Responsible for set-up, programming, and maintenance of lighting equipment, lighting cues, and intelligent/moving fixtures for all productions. Responsible for maintenance of lighting-related theater facilities.
- Collaborated with designers, electrical staff, and stage management to achieve the best possible outcomes for the artistic vision of each production.

*Key accomplishments:*

- Participated in the transition team that moved from the old theater on Vineland Place to the new theater on the river. Set up new facilities, equipment, and procedures to support increasingly ambitious work.
- Improved company culture by serving on the Equity, Diversity and Inclusion search committee to find and hire an ED&I firm.
- Facilitated improved communications both inter- and intra-departmentally to solve workflow problems and prevent costly mistakes.