M. Hudson

Data & Information Science Professional

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SKILLS

Data cleaning, refining, collection, analysis, and visualization (Python, R, OpenRefine, SQL, SPSS, Tableau, NVivo, Qualtrics)

Academic, law, and business database searching (ProQuest, EBSCO, Westlaw, LexisNexis, Bloomberg Law, Factiva)

Business software, project planning, and research management (Word, Excel, PowerPoint, EndNote, Zotero, Mendeley, OneNote, Microsoft Teams, Zoom)

DEMONSTRATED ABILITY TO

Learn quickly, think creatively, and work collaboratively

Manage projects with multiple stakeholders

Build and maintain relationships with external stakeholders

Communicate technical details to a non-technical audience

Develop and implement enterprise-wide data initiatives

Curate and publish diverse data and research outputs for complex organizations

SUMMARY

Data and Information Scientist with over 12 years of experience in **enterprise-level and lab-level data management** in science, medicine, social science, business, law, and industry.

I'm committed to building, documenting, and maintaining processes and systems that support **strategic organizational goals**, unburden teams, and **enable innovation**.

My passion for information access led me to earn a **Master's Degree in Library and Information Science from the University of Washington**, which gives me a unique perspective on curating and stewarding **data and digital assets** for both access and long-term preservation.

PROFICIENCIES INCLUDE

- Expertise in data curation best practices, data documentation, data modeling, and database management systems
- Strong **written and verbal communication**, attention to detail, **analytical thinking**, and **problem-solving** abilities
- Using **Python** (pandas, numpy, scikit-learn, keras, tensorflow), **R**, **APIs**, **SQL**, **Tableau**, and more to clean, investigate, analyze, and visualize data
- Master Data Management (**MDM**) and data governance best practices
- Digital Asset Management (**DAM**) tools and best practices
- Expert knowledge of **statistical** and related **research methodologies** (descriptive and inferential, quantitative and qualitative)
- Using **AWS, Snowflake, Jira, GitHub, Jupyter** notebooks, Microsoft Office applications, and other collaborative tools

EXPERIENCE

2022 - 2023 **Data Science Associate**

Pitney Bowes

- Worked across PB's many lines of business to **store, curate, and provide access** to structured and unstructured data and information in corporate repositories in alignment with our data models.
- Worked with **AWS, Snowflake, and SelectStar** to build data domains with accompanying **data dictionaries**.
- Built **taxonomies** for classification of data products and information in cooperation with **subject matter experts** in several domains.
- Ingested and documented assets in Pitney Bowes' **data catalog**, providing a **single source of truth for business applications**.
- **Analyzed usage** of data catalog to determine cross-company team needs, gather feedback, and address issues.
- Advanced the **visibility and discovery of data** by developing processes to streamline **data collection, curation, and dissemination.**

| 2017 - 2022 | **Data and Assessment Librarian** |
| | Yale Law School |

- Led data and **assessment** efforts for the institution, including **designing, distributing, and analyzing surveys** of the user populations.
- Built, documented, and visualized datasets from multiple sources using **SQL, Python, R, OpenRefine, and Tableau** in order to assess institutional data.
- Created reports and **visualizations of data** on services and collections to strategically communicate institutional activities to a **diverse group of stakeholders**.
- **Instructed** researchers on the **discovery, collection, use, analysis, and management** of data, software, programming tools, and other digital assets across the research lifecycle.
- **Consulted one-on-one** with researchers on **designing, implementing, and completing studies** requiring significant statistical or data-related research.

| 2011 - 2017 | **Data Librarian** |
| | Yale University |

- **Established** and **coordinated** the university-wide Research Data Consultation Group to assist Yale researchers in the sciences and social sciences with **data analysis and management** at any point in their research.
- Collaborated with colleagues across Yale's libraries to **architect a digital repository system** and **write a digital preservation policy** for born-digital and archival materials.
- Created and **taught courses on research data management**, both in general and for specific disciplines in collaboration with Yale faculty in astrophysics and political science.
- Collaborated with the Provost's Office to **research, write, and support Yale's official policy on Research Data and Materials.**

EDUCATION

Professional Certificate in Applied Data Science

Massachusetts Institute of Technology

Coursework included Data Analysis & Visualization, Linear & Logistic Regression, Neural Networks, and Recommendation Systems.

M.S.

University of Washington

M.S., Library and Information Science

B.S.

Pacific University

B.S., Biology, Psychology