

# JOLI HOLMES

Data Visualization Designer

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<https://joliholmes.com>  
<https://github.com/holmesjoli>

## EXPERIENCE

Northeastern University | Center for Design

Jan 2022 – Present

### *Data Visualization Designer*

- ♦ Created ETL processes to clean and transform data in Python; Automated data translation process (Italian to English) using the Google Translate API
- ♦ Collaborated with team to develop exploratory web application to visualize institutional knowledge competencies and processes ecosystem using React.js, D3.js, Pixi.js, HTML, and CSS
- ♦ Developed and implemented testing plans (e.g., browser-based performance testing plan, heuristic analysis for usability testing) and incorporated feedback into the application
- ♦ Assisted with managing issue queue and teaching agile development processes to the team

Rice University | Texas Policy Lab

Jan 2019 – Aug 2021

### *Data Analytics Developer*

- ♦ Developed web applications (e.g., childcare desert application) using R and PowerBI to assist government partners visualize trends in their data
- ♦ Customized web applications with HTML, CSS, and JS; deployed production dashboards to Linux server
- ♦ Created automated ETL processes to combine data sources and export cleaned data in a relational structure
- ♦ Project-managed application development by employing JIRA, Git, and Confluence
- ♦ Taught and developed tutorials on project management, agile development, code version control, quality control, and documentation centralization to lab team members

Mathematical Policy Research | Healthcare Team

Sept 2017 – Jan 2019

### *Statistical Programmer*

- ♦ Developed an automated web-scraping quality control system to identify programming errors in Python
- ♦ Collaborated with a team to develop ETL data pipelines to process and analyze 76 million observations of beneficiary-level claims data on AWS using hierarchical linear modeling
- ♦ Developed exploratory dashboard in RShiny to explore data quality issues
- ♦ Created ETL process to clean sensor impact data with three hundred thousand observations
- ♦ Used hierarchical linear modeling to analyze the effects of an intervention across multiple health outcomes

## EDUCATION

MFA in Information Design and Data Visualization | Northeastern University

May 2023

BA in Economics | Wesleyan University

May 2017

## INFORMATION TECHNOLOGY

	<i>Tool/Language</i>	<i>Years</i>	<i>Libraries/Applications</i>
Programming languages & developer tools	R	7+	tidyverse, ggiraph, shiny, shinydashboard
	Python	3+	pandas, BeautifulSoup, requests, Selenium
	HTML/CSS	3+	
	JS	2+	D3.js, Pixi.js, React.js
	Git/CLI	5+	Github, Bitbucket
Visualization & design tools	Adobe XD/Figma	2+	
	Adobe Illustrator	2+	
Other	Office 365	10+	
	Atlassian Suite	4+	JIRA, Confluence, Bitbucket