

# JOLI HOLMES

Data Visualization Designer

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<https://joliholmes.com>

<https://github.com/holmesjoli>

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## 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

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

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## EDUCATION

MFA in Information Design and Data Visualization | Northeastern University

May 2023

BA in Economics | Wesleyan University

May 2017

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## CONFERENCE PRESENTATIONS

Relating Systems Thinking and Design Symposium (RSD)

*Patient decision-making in the context of a healthcare system*

Oct 2023

*How do we Deliberate about our Health? An Investigation into the Decision Aid as a Service System*

Oct 2022

*Inflection Point*

High Ground Design Conversation (HGDC)

July 2022

July 2023

Texas Public Health Association (TPHA)

*Identification of best practices for county-level data reporting on COVID-19 dashboards*

May 2021

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## PAPERS AND PUBLICATIONS

Zurovac, Jelena, Michael Barna, Mariel Finucane, Ning Fu, Dean Miller, Ignacio Martinez, Joseph Zickafoose, Angela Merrill, Lauren Vollmer, Svetlana Bronnikov, Joli Holmes, and John McCauley. "The Transforming Clinical Practice Initiative Impact Evaluation: Interim Findings." Report submitted to the Centers for Medicare & Medicaid Services. Washington, DC: Mathematica Policy Research, October 22, 2018.

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## AWARDS

Information is Beautiful

*Longlisted for Banca Intesa Processes and Algorithmically Fair?*

Sep 2022

*Longlisted for Banca Intesa Knowledge Networks*

Nov 2022

Northeastern University

*CAMD Graduate Award for Research Projects*

May 2023

*Neurath Award for Outstanding Design Inquiry*

Apr 2023

*Dean's Scholarship*

Sept 2021

Wesleyan University

*Plukas Prize for Research*

May 2017

*Plukas Prize for Teaching Apprenticeship*

May 2017

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## 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               |