Yanet Hernández Pedraza

Junior Data Analyst | Research & Survey Data | Data Visualization
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Portfolio: Observable notebooks | LinkedIn | GitHub

Professional Summary

Entry-level data analyst with hands-on experience preparing, cleaning, analyzing, and visualizing survey data for an equity, diversity, and inclusion (EDI) project. Combines doctoral-level research rigor with practical data visualization in JavaScript, Observable, D3, and Observable Plot, plus working knowledge of Python, R, and Excel. Skilled at organizing complex structured data, identifying patterns, and communicating results clearly in English, French, and Spanish.

Technical Skills

Data analysis: Data cleaning and preparation · Survey data analysis · Quantitative and qualitative analysis · Data visualization · Exploratory data analysis · Data quality and documentation
Tools and languages: JavaScript · Observable · D3 · Observable Plot · Python · R (basic) · SPARQL · Microsoft Excel / Office · XML-TEI · XSLT · XQuery (basic) · HTML · CSS
Data and research: JSON · Structured text/data · Entity extraction and organization · Wikidata querying · Bibliographic data · Research data management
Communication: Reporting and data storytelling · Stakeholder support · English (bilingual) · French (fluent) · Spanish (native)

Relevant Experience

Technical Support — Data Analysis

Department of French Language and Literature, Université de Montréal | Mar–Apr 2025 (part-time)

- Prepared and cleaned data from a 42-response EDI survey for analysis, standardizing missing-response values and organizing multi-select responses.
- Conducted quantitative and qualitative analysis of survey responses and produced interactive visualizations for exploring trends and participant feedback.
- Built visual summaries of EDI issues by respondent group, program, academic cycle, and other survey dimensions using JavaScript, Observable, and Observable Plot.
- Supported an evidence-based understanding of sensitive survey findings while maintaining careful handling of respondent-level data.

Research Assistant

Department of French Language and Literature, Université de Montréal | Jul 2023–Present (part-time)

- Collected, validated, and organized research bibliographies and digital project materials for humanities research initiatives.
- Supported the *Digital Leigh Hunt* project by working with structured research data and contributing to data-driven visualizations of *The Indicator*.
- Used Python and SPARQLWrapper to query Wikidata for named-person and place data, retrieving labels, descriptions, dates, images, and geographic coordinates for downstream use.
- Applied quality-control practices to research information, editorial content, and structured digital materials.
- Coordinated research and event information, communicating clearly with collaborators, contributors, and participants.

Webmaster and Organizing Committee Member

DHSI 2026, Université de Montréal | Oct 2025–Present (part-time)

- Maintain and update the DHSI OpenUM website, ensuring information is accurate, current, and accessible.

Webmaster and Organizing Committee Member

VocUM, Université de Montréal | Nov 2022–Jan 2026 (part-time)

- Maintain the VocUM WordPress website; publish and organize conference content.
- Contribute to proposal review and event coordination.

Selected Data Projects

EDI Survey Analysis and Interactive Dashboard | Observable, JavaScript, D3, Observable Plot

Portfolio: Observable notebook

- Transformed a 42-response cleaned EDI survey into analysis-ready records, including a respondent identifier, normalized missing values, and one record per selected EDI issue.
- Created interactive bar charts, faceted comparisons, tooltips, and a nested-circle visualization to examine EDI issues across program, academic cycle, and respondent characteristics.
- Integrated both quantitative distributions and access to qualitative responses to support exploratory analysis of survey themes.

***The Indicator* — Issue and Section Analysis | Observable, JavaScript, JSON, D3, Observable Plot**

Portfolio: Observable notebook

- Parsed structured JSON data for 27 issues of Leigh Hunt's *The Indicator* to organize issue numbers, dates, and section names.
- Calculated sections per issue and built interactive time-series and tooltip-enabled visualizations to show change across the publication.
- Developed data transformations linking recurring section names to individual issues.

***The Indicator* — Interactive Section Hierarchy | Observable, JavaScript, D3**

Portfolio: Observable notebook

- Designed an interactive, collapsible tree that maps section names to the issues in which they appear.
- Used D3 hierarchy and tree-layout methods to convert relational issue/section data into an explorable visualization.

***The Indicator* — Persons, Places, and Bibliographic Entities | Observable, JavaScript, JSON, Observable Plot**

Portfolio: Observable notebook 1 and Observable notebook 2

- Extracted and reorganized entity data—including persons, places, titles, editors, and bibliographic references—from structured project data.
- Built interactive charts to compare titles, references, and editorial entities by issue, with tooltips for contextual detail.

Wikidata Entity Enrichment | Python, SPARQL, SPARQLWrapper, JSON

Code: Script 1 · Script 2

- Developed Python scripts that batch Wikidata entity IDs in groups of approximately 25 and query the Wikidata SPARQL endpoint, including delay handling to reduce timeout risk.
- Extracted and serialized structured metadata for people (labels, descriptions, birth/death dates, images) and places (labels, descriptions, coordinates, images) to JSON for downstream analysis and visualization.

Additional Experience

Sub-Editor | *Digital Studies / Le champ numérique* | Nov 2025–Present (part-time)

- Manage editorial project-board workflows, peer-review reports, desk assessments, and copyediting.

Course Instructor | Department of French Language and Literature, Université de Montréal | Sep–Dec 2024 (part-time)

- Developed and taught *Digital Humanities: Theories*; organized course materials and assessed student work.

Translator, Web Writer, Tutor, and Teacher | 2018–Present

- Delivered clear, audience-appropriate written communication, translations, and individualized instruction in multilingual settings.

Education

PhD in Literature, Digital Humanities Option

Université de Montréal | 2022–2026 - Dissertation rated “excellent” by the jury and recommended for the Dean’s Honour List. - GREN-CRIHN doctoral scholarship.

Master’s Degree in Rare Books and Digital Humanities

Université de Franche-Comté | 2020–2022

Bachelor’s Degree in English and French as a Second Foreign Language

Universidad Central “Marta Abreu” de Las Villas | 2012–2018