

Federica Bologna

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Education

Cornell University

Ithaca, N.Y.

Ph.D. in Information Science | Minor: Sociology

Expected May 2027

University of Bologna

Bologna, Italy

M.A. in Modern, Post-Colonial and Comparative Literature

2020

University of Bologna

Bologna, Italy

B.A. in Foreign Languages and Literature

2017

Research Expertise

Computational Social Science, Natural Language Processing (NLP), Medical Narratives, Online Communities, Causal Inference, Cultural Analytics, Science of Science

Skills

Programming Python (Scikit-learn, BERT, Spacy, NLTK, Pandas, NumPy, Matplotlib, Plotly, Seaborn etc.), R (tidyverse), Bash

Tools Git(Hub), \LaTeX (Overleaf), Qualtrics, Hugging Face, Microsoft Office

Methods NLP (supervised classification, topic modeling, etc.), Quantitative (causal inference, data analysis, statistical testing), Qualitative (surveys)

Selected Research Experience

Evaluation of GPT for Patient Question Answering

Ithaca, NY

Cornell University

Sep 2023 - Present

- Work in progress... @-@

Stylometric Identification of the “Unknown Male Author” in Veronica Franco’s *Terze rime*

Ithaca, NY

Cornell University

Jun 2022 - May 2023

- Conducted authorship attribution in low-resource languages, specifically 16th-century Italian, combining character trigrams, supervised classification, and high-dimensional data visualization techniques.

User Needs and Peer Support in Endometriosis Online Communities

Ithaca, NY

Cornell University

Sept 2021 - Dec 2022

- Investigated aggregate patients’ needs, impact of relationships on patients’ experiences and peer support practices in two endometriosis online communities.
- Identified large-scale trends in posts’ topics, the relationships mentioned, and the support the posts seek using supervised classification with DistilBERT and LDA topic modeling.
- Submitted publication and presented preliminary findings at [DH2022](#).

Selected Work Experience

NYC Health + Hospitals

Ithaca, NY

Siegel Family Endowment [PiTech PhD Impact Fellow](#)

Jun 2023 - Aug 2023

- Evaluated the impact of current policies at relieving nurses' alert fatigue using data analysis.
- Provided design recommendations to improve the integration of medical alerts within nurses workflows after having conducted and analyzed interviews.

Cornell University

Ithaca, NY

Teaching Assistant for [Studying Social Inequality with Data Science](#)

Jan 2023 - May 2023

- I won an **Outstanding Teaching Award**, wohoo!
- Delivered [a lecture](#) on non-parametric estimation of causal effects.
- Curated [this independent investigation](#) students conducted over multiple classes.

University of Bologna

Bologna, Italy

Research Assistant

Aug 2020 - Jul 2021

- Built a pipeline to collect and disambiguate publication data from Microsoft Academic Graph, Crossref, OpenAIRE and OpenCitations.
- Queried and manipulated 275M+ bibliographic and citation records using MongoDB and multiprocessing with Ray.

Publications

Under review	User Needs and Peer Support in Endometriosis Online Communities Federica Bologna , Rosamond Thalken, David Mimno, Matthew Wilkens
2022	Do open citations give insights on the qualitative peer-review evaluation in research assessments? An analysis of the Italian National Scientific Qualification Federica Bologna , Angelo Di Iorio, Silvio Peroni, Francesco Poggi <i>Scientometrics</i>
2022	Open bibliographic data and the Italian National Scientific Qualification: Measuring coverage of academic fields Federica Bologna , Angelo Di Iorio, Silvio Peroni, Francesco Poggi <i>Quantitative Science Studies</i>
2020	A Computational Approach to Urban Space in Science Fiction Federica Bologna <i>Journal of Cultural Analytics</i>

Fun facts :)

I am obsessed with [poetry](#), cats, [yoga](#), thrift-shopping and binge-watching animes.