Federica Bologna

☑ fb265@cornell.edu

Research Interests

Natural Language Processing (NLP), Healthcare, Computational Social Science

Education

2021-Present **Ph.D. in Information Science**, Cornell University

Advisor: Matthew Wilkens

Minor: Sociology

2017-2020 M.A. in Modern, Post-colonial and Comparative Literature, University of Bologna, Italy

Advisors: Elena Lamberti and Matthew Wilkens

Thesis: A Computational Approach to Urban Space in Science Fiction

2014-2017 B.A. in Foreign Languages and Literature, University of Bologna, Italy

Publications

Working paper Causal Effect of Character Gender on Readers' Preferences

Federica Bologna, Ian Lundberg, Matthew Wilkens

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Under review Endometriosis Online Communities: A Quantitative Analysis

Federica Bologna, Rosamond Thalken, Kristen Pepin, Matthew Wilkens

Under review Stylometric Identification of the "Unknown Male Author" in Veronica Franco's Terze rime

Giulia Andreoni, Federica Bologna, Marilyn Migiel

Endometriosis Online Communities: How Machine Learning Can Help Physicians Under-

stand What Patients Are Discussing Online

Kristen Pepin, Federica Bologna, Rosamond Thalken, Matthew Wilkens

Journal of Minimally Invasive Gynecology

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

Scientometrics

Open bibliographic data and the Italian National Scientific Qualification: measuring coverage of academic fields

Federica Bologna, Angelo Di Iorio, Silvio Peroni, Francesco Poggi *Quantitative Science Studies*

A Computational Approach to Urban Space in Science Fiction

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Journal of Cultural Analytics

Professional experience

Summer 2023

2020

PiTech PhD Impact Fellow, NYC Health + Hospitals

Managers: Michael Bouton, MD, MBA, David Silvestri, MD, MBA, MHS, Anand Reddy, MD

- Evaluated strategies to reduce nurses' alert fatigue by comparing pre- and post- intervention alert rates using non- parametric statistical testing.
- Demonstrated that revising alert criteria can reduce unnecessary alerts by up to 94%, while improving alert design can reduce overridden alerts by up to 64%.
- Devised and recommended alert revisions to hospital informatics leadership based on interviews with nursing staff.

2020-2021

2022

Research Assistant, University of Bologna, Italy

Mentors: Angelo Di Iorio, Silvio Peroni, and Francesco Poggi

- Evaluated the suitability of open access datasets for academic evaluation processes.
- Examined committees' decisions with citation network analysis and supervised classification.

Posters & Presentations

2023 What is Happening in Endometriosis Online Communities?

Kristen Pepin, Federica Bologna, and Matthew Wilkens

Main Stage Presentation at the 2023 Global Congress of the American Association of Gynecologic Laparoscopists (AAGL)

Support and Relationship Patterns in Endometriosis Narratives

Federica Bologna, Rosamond Thalken, David Mimno, and Matthew Wilkens Long Presentation at $\overline{\rm DH}_{\rm 2022}$

Analyzing Urban Space's Presence in Science Fiction Using Token Counts

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Presentation at University of Naples "L'Orientale" Graduate Conference 2020

Teaching Experience

| Fall 2024 | Graduate TA, INFO 3350: Text mining for history and literature, Cornell University |
|-------------|--|
| Spring 2024 | Graduate TA, INFO 3370: Studying Social Inequality with Data Science, Cornell Uni- |
| | versity |
| Spring 2023 | Graduate TA, INFO 3370: Studying Social Inequality with Data Science, Cornell Uni- |
| | versity |
| Spring 2022 | Graduate TA, INFO 3350: Text mining for history and literature, Cornell University |

Honors, Awards & Scholarships

| 2024 | Microsoft Azure Cloud Computing Grant, Cornell University |
|------|---|
| 2023 | Outstanding Teaching Award, Cornell University |
| 2023 | Siegel Family Endowment PiTech PhD Impact Fellow, Cornell University |
| 2019 | M.A. Thesis Research Abroad Scholarship, University of Bologna, Italy |
| 2017 | Overseas Study Abroad Scholarship, University of Bologna, Italy |

Professional services

Reviewed for *Computational Humanities Research* 2022.
Reviewed for *Computational Humanities Research* 2021.

Non-degree studies

2017-2018 Overseas Study Abroad Program, University of California, Los Angeles