

Federica Bologna

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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
- Under review Stylometric Identification of the "Unknown Male Author" in Veronica Franco's *Terze rime*
Giulia Andreoni, **Federica Bologna**, Marilyn Migiel
- Forthcoming [Endometriosis Online Communities: A Quantitative Analysis](#)
Federica Bologna, Rosamond Thalken, Kristen Pepin, Matthew Wilkens
Journal of Medical Internet Research
- 2024 [Endometriosis Online Communities: How Machine Learning Can Help Physicians Understand What Patients Are Discussing Online](#)
Kristen Pepin, **Federica Bologna**, Rosamond Thalken, Matthew Wilkens
Journal of Minimally Invasive Gynecology
- 2023 [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

2022 [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

2020 [A Computational Approach to Urban Space in Science Fiction](#)

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Journal of Cultural Analytics

Professional experience

Summer 2023 [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 **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 \(AAGL\)](#)

2022 **Support and Relationship Patterns in Endometriosis Narratives**

Federica Bologna, Rosamond Thalken, David Mimno, and Matthew Wilkens

Long Presentation at [DH2022](#)

2021 **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 University
Spring 2023	Graduate TA, INFO 3370: Studying Social Inequality with Data Science , Cornell University
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

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

Non-degree studies

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