**Federica Bologna**

federica.bologna17@gmail.com | +1 607-442-9965 | linkedin.com/in/federica‑bologna

**EDUCATION**

**Cornell University,** *Ph.D. in Information Science* **Ithaca, NY**

* GPA: 4.00 / 4.00; Microsoft Azure Cloud Computing Grant (18,700$);Outstanding TA Award; *Expected May 2026*

**Cornell University,** *M.S. in Information Science* **Ithaca, NY**

* GPA: 4.00 / 4.00 *2024*

**RESEARCH & PROFESSIONAL EXPERIENCE**

**Cornell University** **Ithaca, NY**

*LLM & AI Research Scientist Aug 2021 – Present*

* Determined that endometriosis patients struggle with accessing appointments with specialists by analyzing 15,000+ posts and 300,000+ comments from online communities using machine learning
* Presented findings in two publications and as a main stage speech at the main endometriosis conference (AAGL)
* Collaborated with cross-functional teams across Cornell University, Weill Cornell, Columbia University, and UCLA

**Cornell University** **Ithaca, NY**

*Teaching Assistant, Data Science and Machine Learning Jan 2024 – Dec 2024*

* Taught weekly sections on data science, machine learning (ML), and natural language processing (NLP)
* Delivered lectures on social media analysis with NLP and statistical techniques for causal effect estimation
* Curated a class activity on how to answer social science questions starting from a dataset

**NYC Health + Hospitals** **New York City, NY**

*Technical Consultant Jun 2023 – Aug 2023*

* Collaborated with hospital leadership and informatics experts to identify unnecessary and frequently overridden alerts
* Demonstrated that revising alert criteria can reduce unnecessary alerts by up to 94%, while improving alert design can decrease overridden alerts by up to 64%, through data analysis and statistical testing
* Communicated results to both hospital leadership and informatics experts supporting organization-wide routine alert revisions
* Funded by the Siegel Family Endowment PiTech PhD Impact Fellowship

**University of Bologna** **Bologna, Italy**

*Research Scientist Aug 2020 – Jul 2021*

* Demonstrated that the strength of citational ties between candidates and evaluating commissions affect academic hiring outcomes combining network analysis and machine learning
* Revealed that open bibliographic datasets provide lower coverage of publications in the humanities and social sciences compared to STEM by building a pipeline to query and collect 275M+ bibliographic and citation records
* Published two first-author articles in high-impact science of science journals

**LEADERSHIP EXPERIENCE**

**Pelvic Pain Association at Cornell (PPAC)** **Ithaca, NY**

*President Jan 2024 – July 2024*

* Advocated with Cornell’s Vice President Ryan Lombardi and Cornell Health administration to improve the quality of care for students with pelvic pain, leading to the association’s current collaboration with the Director of Women’s Health
* Presented at numerous panels and events on-campus to raise awareness about pelvic pain conditions
* Managed $1,500 funding to sponsor events and outreach efforts

**PUBLICATIONS (out of 5 total publications, 4 as first-author)**

**Federica Bologna**, [Rosamond Thalken, Kristen Pepin, Matthew Wilkens], Endometriosis Online Communities: A Quantitative Analysis, *Journal of Medical Internet Research*, DOI: 10.2196/57987, 2025

**Federica Bologna**, [Angelo Di Iorio, Silvio Peroni & Francesco Poggi], Do open citations give insights on the qualitative peer-review evaluation in research assessments?, *Scientometrics*, DOI: 10.1007/s11192-022-04581-6, 2023

**SKILLS & INTERESTS**

* **Programming Languages:** Python, R, Bash, SQL
* **Methods:** Large Language Models, Generative AI, Natural Language Processing, Causal Inference, Statistical Testing
* **Interests:** poetry fanatic (Louise Glück is a favorite); Yoga with Adrien follower; anime binge-watcher (recently DanDaDan);