

Axel D. F. Bax

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EDUCATION

2024 - present Cornell University PhD Information Science
2022 - 2024 Johns Hopkins University M.S. in Geographic Information Systems
2017 - 2021 Johns Hopkins University B.A in English and Psychology

PUBLICATIONS

- Bax, A., Mimno, D., & Wilkens, M. (2025). Castles, battlefields, and continents: A dataset of maps from literature (M. F. Taylor Arnold & R. Ros, Eds.). *Anthology of Computers and the Humanities*, 3, 280–294. <https://doi.org/10.63744/oYbvYsUA743D>
- Morales, J., Bax, A., & Firestone, C. (2021). Reply to linton: Perspectival interference up close. *Proceedings of the National Academy of Sciences*, 118(28), e2025440118. <https://doi.org/10.1073/pnas.2025440118>
- Bax, A. (2021). Machines over Mind: Computational Literary Studies and the American Gothic. *The Macksey Journal*, 2(1).
- Morales, J., Bax, A., & Firestone, C. (2020). Sustained representation of perspectival shape. *Proceedings of the National Academy of Sciences*, 117(26), 14873–14882. <https://doi.org/10.1073/pnas.2000715117>

RESEARCH INTERESTS

digital humanities, computational literary studies, literary cartography, cultural analytics, American literature, CLIP, classification, geographic information systems

WORK EXPERIENCE

Siegel PiTech Impact Fellowship May 2025 - August 2025

- Matched with New York City Department of City Planning, Capital Planning and Support
- Developed methodologies to identify effective service metrics for public libraries in New York City
- Identified physical and program related measures for identifying under-performing libraries.

Undergraduate Admission Officer, Johns Hopkins University May 2021 - June 2024

- General responsibilities include: recruiting applicants within a specific region, reading applications within a specific region, and assisting with admitted student events.
- Additional responsibilities include: onboarding new staff, organizing all-staff training, advising student workers and affiliated student organization, guiding broader recruitment strategies across staff, moderating the admitted student Discord server, and mentoring new staff.
- Specific projects: coded Python bots for Discord server, created rural index using Census data in R, created a workflow for sorting student data into metropolitan areas, managing an international region.

TEACHING EXPERIENCE

INFO 1300 - Introductory Design and Programming for the Web

Fall 2024, Fall 2025

- Create homework assignments for students to practice HTML and CSS.
- Lead team of TAs for grading assignments and schedule office hours.
- Proofread and edit course documents.
- Attend weekly lectures and assist students.

SKILLS

Python

R

ArcGIS Pro, ArcGIS Online, ArcPy

Javascript/HTML/CSS

finetuning machine learning models