

Sienna Mark

(406)-925-0728 | mark.s@northeastern.edu

EDUCATION

Northeastern University | Boston, MA |

Expected 2027

Doctor of Philosophy in Political Science; Comparative Politics, Public Policy

University of Michigan, School of Public Health | Ann Arbor, MI |

Master of Public Health (MPH) in Global Health Management and Policy

Eastern Illinois University | Charleston, IL |

Bachelor of Science (B.S.) in Management; Bachelor of Science (B.S.) in Health Administration

Summa Cum Laude

PUBLICATIONS

- Mark, S., Holder, S., *et al.* Beyond the Brink: The Escalating Onslaught of Hazards in a Polycrisis Landscape
 - Under review at Environmental Letters
- Mark, S., Holder, S., *et al.* Understanding Polycrisis: Definitions, Applications, and Responses
 - Accepted at the Journal of Global Sustainability
- Holder, S., Mark S., *et al.* The Spectrum of (Poly)Crisis
 - Under review at Comparative Studies in Society and History
- Barnard, M., Mark, S., Greer, S.L. *et al.* Defining and analyzing health system resilience in rural jurisdictions. *Environ Syst Decis* 42, 362–371 (2022). <https://doi.org/10.1007/s10669-022-09876-w>
- Mark, S., DeRuiter-Willems, L., & Willems, J. (2020). The Use of Quantitative Protocols to Determine Quality of Care and Patient Outcomes in Time Sensitive Emergencies. Proceedings of The National Conference on Undergraduate Research. Retrieved from <http://libjournals.unca.edu/ncur/2020-2/>

PROFESSIONAL EXPERIENCE

Accelerator for Systemic Risk Assessment, UN Foundation

Feb 2025 -Present

Research Analyst Systemic Risk Response | Washington, DC |

- Compile and synthesize diverse data sources to capture a broad range of perspectives on systemic risk response.
- Evaluate, catalog, and distill key academic and non-academic research into case studies for publication.
- Engage with researchers, authors, and practitioners to facilitate knowledge exchange at ASRA working group meetings and events.
- Assess and interpret data sources to determine their relevance, coverage, and credibility in shaping risk response strategies.
- Design a preliminary framework to classify and analyze systemic risk responses, supporting ASRA's policy initiatives.

US Army Corps of Engineers, Engineer Research and Development Center

May 2021 -July 2022

Research and Development Intern | Concord, MA |

- Executed round-the-clock critical COVID mission support for FEMA/ASPR, the White House COVID Response Team, USACE, and multiple military commands
- Generated global health and security reports for high-risk, high-uncertainty nations for the EUCOM and AFRICOM Command Surgeons
- Delivered state-of-the-science analysis on vaccine administration and equity for FEMA R1 FCO and Six New England States
- Served as rural health systems subject matter expert for the ERDC team's COVID response

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- Assisted crafting a novel FEMA Hurricane Emergency Evacuation Plan
- Researching new theories and practices of multi-crisis threat doctrine and practice for USACE

Infection Control Specialist, Steele Memorial Medical Center | Salmon, ID | June-Aug 2020

- Executed emergency response functions at a remote hospital under extreme austere conditions during the COVID-19 pandemic
- Coordinated and oversaw hospital-wide contact tracing of 300 employees and patients to allow for coordination of isolation and testing of contacted individuals across 3 states

Administrative Intern, Steele Memorial Medical Center | Salmon, ID | May-July 2019

- Monitored the daily activities of a clinical team consisting of physicians, nurses, and support staff to maintain efficient and effective operations

Inspiring Australia Science Communication Intern | Sydney, AU | May-July 2018

- Coached researchers on science communication skills and public engagement opportunities to allow for targeted research presentations to meet a variety of audience needs and to achieve a common goal of science education for the general public

RESEARCH

Research Assistant: Rasmussen Foundation | Boston, MA | Jan 2023-Present

- Combine historical, scientific, and social science perspectives to define the Polycrisis vis-a-vis other types of shocks and provide concrete recommendations rooted in a deep, cross-disciplinary analysis looking at the ways that institutions at multiple levels have handled previous compounded crises

Research Assistant: Global Resilience Institute | Boston, MA | Aug 2022-Dec 2022

- Secured grants from NOAA and NASA, collaborated with Caribbean Center for Rising Seas

Research Assistant: Carnegie Mellon University | Pittsburgh, PA | Jun 2021-May 2022

- Collaborated with Dr. Emily Wells and the Engineering and Public Policy Department to support qualitative research methodology

Research Assistant: Dr. Elisa Maffioli, University of Michigan | Ann Arbor, MI | Jan 2021-May 2021

- Prevalence of counterfeit pharmaceuticals in Nigeria: protecting the supply chain through cost effective interventions

Health Management and Policy Governance Lab Fellow | Ann Arbor, MI | May 2021-April 2022

- Demonstrate facility with applied policy analysis and a sophisticated understanding of health politics and governance

CONFERENCE PRESENTATIONS

- Polycrisis in the Anthropocene | Potsdam, Germany | May 2024

TEACHING & MENTORING

Public Policy and Administration | Boston, MA | April 2025 – June 2025

- Instructor of Record

Public Policy and Administration | Boston, MA | Jan 2025 – April 2025

- Graduate teaching assistant with Dr. Jeffrey Moyer

Advisor: Senior Capstone Research | Boston, MA | June 2024 – Dec 2024

- Provide mentorship for undergraduate student from Bouve College of Health Sciences on research project titled “*Bridging Gaps: Race, Culture, and Mental Health in First Responders*”

Dialogue of Civilizations | Cairo, Egypt | May 2024 – June 2024

- Graduate teaching assistant with Dr. Denis Sullivan

International Politics Abroad | Istanbul, Turkey | May 2024 – June 2024

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- Graduate teaching assistant with Dr. Denis Sullivan

Quantitative Techniques | Boston, MA |

Jan 2024-May 2024

- Graduate teaching assistant with Dr. Chinbo Chong

Introduction to American Government | Boston, MA |

Aug 2022-Dec 2022

- Graduate teaching assistant with Dr. Michael Tolley

Guest Lectures

- Northeastern University – Introduction to Comparative Politics Jan 2025
- Northeastern University – American Politics: Future of Gun Control Policy Nov 2024
- Bentley University – Global Health Regime: Health and Diseases May 2024
- Northeastern University – American Politics: Landscape of Abortion Today March 2024

WHITE PAPERS

- Mark, S., Trump, B.D., Jarman, H. (2021). Analysis of COVID Spread, Disruption, and Regional Stability in Djibouti – Report for United States European Command – AFRICOM Command Surgeon.
- Trump, B.D., Jin, A., Mark, S., Roy, W., Linkov, I., et al. (2021). Vaccine Equity Analysis for FEMA/ASPR Region I (New England) – Report to the White House COVID Response Team. SITREP delivered weekly. FEMA/ASPR R1 Data Analytic Task Force.
- Trump, B.D., Cegan, J., Mark, S., Linkov, I., et al. (2021). Force Health Readiness: Anticipating COVID Spread, Trends, Disruption, and Alternative Futures. USACE North Atlantic Division. SITREP delivered twice weekly. FEMA/ASPR R1 Data Analytic Task Force.
- Trump, B.D., Jin, A., Mark, S., Roy, W., Linkov, I., et al. (2021). Vaccine Administration, Equity, and Hesitancy – Report for the State Government of New Hampshire. FEMA/ASPR R1 Data Analytic Task Force.
- Trump, B.D., Jin, A., Mark, S., Roy, W., Linkov, I., et al. (2021). Vaccine Administration, Equity, and Hesitancy – Report for the State Governments of Maine, Vermont, Connecticut, Massachusetts, and Rhode Island. FEMA/ASPR R1 Data Analytic Task Force.
- Trump, B.D., Mark, S., Jarman, H. (2021). Analysis of COVID Spread, Disruption, and Regional Stability in Select European Nations – Report for United States European Command – EUCOM Command Surgeon.

AWARDS & HONORS

- Philanthropic Educational Organization (PEO) Scholar Award (\$25,000): Scholar Awards recipients are a select group of women chosen for their high level of academic achievement and their potential for having a positive impact on society.

SKILLS & METHODS

- Qualitative: In-depth and semi-structured interviews, observations, thematic analysis, coding with MAXQDA and NVIVO
- Quantitative:
 - Data Analysis & Tools: Excel (pivot tables, advanced functions), R (statistical modeling, data cleaning, regression analysis)
 - Survey Research: Questionnaire design, distribution, data cleaning, and analysis
 - GIS & Spatial Analysis: Mapping, geospatial data visualization, spatial statistics

PROFESSIONAL AFFILIATIONS & CERTIFICATES

International Studies Association | ISA |

2024- Present

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World Association for Disaster and Emergency Medicine | WADEM | 2021-Present
Collaborative Institutional Training Initiative | Social-Behavioral Human Subjects Researchers | 2020-Present
FEMA | Introduction to Incident Command System, ICS-100 | 2020-Present
Society for Public Health Education | SOPHE | 2019-Present

LEADERSHIP AND VOLUNTEER INVOLVEMENT

Politea, Director | Boston, MA | Aug 2024- Present

- Orchestrate academic networking, skill building, and community outreach activities for Northeastern University Political Science graduate students

Curriculum Student Advisory Committee | Ann Arbor, MI | Oct 2021-April 2022

- Guide development of new curriculum that will enable students to engage with, and tackle, the world's greatest public health challenges

Health Policy Case Competition, Executive Director | Ann Arbor, MI | Aug 2021-April 2022

- Coordinated a cross-functional team of 18 volunteers in strategic planning, fundraising, and ensured program excellence. 20 teams (115 students) across 4 universities competed to develop innovative health policy solutions.

Health Policy Student Association, Vice President | Ann Arbor, MI | Aug 2021-April 2022

- Develop professional development opportunities to best prepare future public health professionals for success in their careers

Public Health Action Support Team, University of Michigan | Ann Arbor, MI | Aug 2020-April 2022

- Engage with communities in need to provide community focused public health support