

Aleksandra Stamper

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EDUCATION

August 2023 – present	Doctoral student Brown University School of Public Health Department of Epidemiology Brown University, Providence, RI
August 2020 – May 2022	Master of Applied Science in Spatial Analysis for Public Health Johns Hopkins Bloomberg School of Public Health Johns Hopkins University, Baltimore, MD
August 2014 – May 2018	Bachelor of Arts Majors: Anthropology, Biochemistry Smith College, Northampton, MA

WORK AND RESEARCH EXPERIENCE

August 2023 – present	Research Assistant Baker Lab, Department of Epidemiology Brown University, Providence, RI Leverage Susceptible-Infected-Recovered (SIR) models and fixed effects regression to investigate the impact of climate on influenza transmission and outbreak dynamics; use Python and R to query, process, and analyze high-dimensional climate, spatial, and infectious disease data
January 2021 – July 2023	Health Data Analyst University Health Service University of Michigan, Ann Arbor, MA Synthesize, evaluate, and communicate regular data updates (e.g., operational metrics, communicable diseases, lab test results); query and report on a range of clinical, financial, and administrative processes and results; use R, Python, SQL, and Tableau for data mining, processing, visualization, and presentation
August 2018 – August 2020	Laboratory Specialist Thaler Center for HIV and Retrovirus Research University of Virginia Medical School, Charlottesville, VA Investigate the effects of a CRISPR Cas9 genetic knockout mutation in the mouse NXF1 gene; create and maintain data pertaining to the mouse colony; isolate and analyze RNA, DNA, and protein from transfected and infected cells; perform gel electrophoresis, Western blotting, PCR, and DNA and RNA sequence analysis; use R for data processing, visualization, and presentation

FELLOWSHIPS

August 2024 – January 2025	NASA Rhode Island Space Grant Consortium Role: NASA RI Space Grant Graduate Fellow \$23,159
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HONORS & AWARDS

April 2025	Travel Award , Brown University
April 2025	Outstanding Doctoral Student Publication Award , Brown University

ORGANIZATIONS

2023 – present	Graduate student member, Institute at Brown for Environment and Society
2024 – present	Graduate student member, Brown Pandemic Center

PEER-REVIEWED PUBLICATIONS

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1. **Stamper, A. R.**, Mahmud, A. S., Nuzzo, J. B., & Baker, R. E. (2025). Modeling the Impact of Climate Extremes on Seasonal Influenza Outbreaks Across Tropical and Temperate Locations. *GeoHealth*, 9(4), e2024GH001138. <https://doi.org/10.1029/2024GH001138>
 2. Montgomery, J. P., Marquez, J. L., Nord, J., **Stamper, A. R.**, Edwards, E. A., Valentini, N., Frank, C. J., Washer, L. L., Ernst, R. D., Park, J. I., Price, D., Collins, J., Smith-Jeffcoat, S. E., Hu, F., Knox, C. L., Khan, R., Lu, X., Kirking, H. L., & Hsu, C. H. (2024). Detection of a Human Adenovirus Outbreak, Including Some Critical Infections, Using Multi-Pathogen Testing at a Large University, September 2022—January 2023. *Open Forum Infectious Diseases*, ofae192. <https://doi.org/10.1093/ofid/ofae192>
 3. Lewis, N. M., Delahoy, M. J., Sumner, K. M., Lauring, A. S., Bendall, E. E., Mortenson, L., Edwards, E., **Stamper, A.**, Flannery, B., & Martin, E. T. (2023). Risk factors for infection with influenza A(H3N2) virus on a US university campus, October-November 2021. *Influenza and Other Respiratory Viruses*, 17(5), e13151. <https://doi.org/10.1111/irv.13151>
 4. Sood, A., Miller, A. M., Brogi, E., Sui, Y., Armenia, J., McDonough, E., Santamaria-Pang, A., Carlin, S., **Stamper, A.**, Campos, C., Pang, Z., Li, Q., Port, E., Graeber, T. G., Schultz, N., Ginty, F., Larson, S. M., & Mellinghoff, I. K. (2016). Multiplexed immunofluorescence delineates proteomic cancer cell states associated with metabolism. *JCI Insight*, 1(6), e87030. <https://doi.org/10.1172/jci.insight.87030>

ORAL PRESENTATIONS

Stamper A. Climate and Influenza: Evaluating Drivers Across Temperate and Tropical Regions. Rhode Island Space Grant Spring Symposium. Providence, RI; April 2025

Mortenson L, **Stamper A**, Edwards E, Montalva R. Clinical Informatics, Metrics and KPIs: Essentials for College Health Professionals Responding to Public Health Threats. American College Health Association Meeting. Boston, MA; June 2023

CONFERENCE POSTERS

Stamper A, Baker E. Climate and Influenza: Evaluating Drivers Across Temperate and Tropical Climates. Ecology and Evolution of Infectious Diseases Conference. South Bend, IN; June 2025 (*Accepted abstract, upcoming*)

Stamper A, Baker E. Evaluating climate drivers of influenza dynamics across tropical and temperate regions. Society for Epidemiologic Research Meeting. Boston, MA; June 2025 (*Accepted abstract, upcoming*)

Stamper A, Baker E. Impact of climate variability on projected influenza outbreaks. Society for Epidemiologic Research Meeting. Austin, TX; June 2024

Stamper A, Edwards E. Why do College Students Seek Emergency Services? American College Health Association Meeting. Boston, MA; June 2023

Edwards E, **Stamper A**. What Happens to College Students who Seek Emergency Medical Services? American College Health Association Meeting. Boston, MA; June 2023

Rutkowska M, **Stamper A**, Michalak M, Xu W, Huang J, Rekosh D, Hammarskjöld ML. Development and Analysis of Mouse Models to Study the Function of the Constitutive Transport Element (CTE) in the NXF1 Gene. RNA Society Meeting. Krakow, Poland; June 2019

Rutkowska M, **Stamper A**, Michalak M, Xu W, Rekosh D, Hammarskjold ML. A Deletion in the Mouse Nxf1 Intron 10 CTE Results in Downregulation of Genes Involved in Learning and Synaptic Plasticity. RNA Society Meeting. Krakow, Poland; June 2019

SKILLS

Computer programs: R, Python, ArcGIS, EPIC EMR, Microsoft Office

Languages: English, French (advanced)