

## Aleksandra Stamper

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### EDUCATION

**Brown University**, *Ph.D., Epidemiology* Providence, RI | 2023 – present  
Published 2 peer-reviewed manuscripts (1/2 first author) | Awarded NASA Rhode Island Space Grant Consortium Fellowship of \$23,159 | Awarded \$500 for Outstanding Doctoral Student Publication

**Johns Hopkins University**, *MAS in Spatial Analysis for Public Health* Baltimore, MD | 2020 – 2022  
Awarded OPAL Scholarship covering \$446/credit

**Smith College**, *B.A. in Biochemistry, Anthropology* Northampton, MA | 2014 – 2018  
Awarded \$2,200 Praxis funding to support summer internship | Dean's list

### TECHNICAL PROFICIENCIES

**High proficiency:** R (commonly used packages: ggplot2, dplyr, deSolve), SLURM, Linux/Unix, HPC environments  
**Familiarity:** Python, SAS, SQL, ArcGIS, EPIC EMR, Tableau

### PROFESSIONAL EXPERIENCE

**Brown University School of Public Health**, *Graduate Research Assistant* Providence, RI | 2023 – present

- Publish 2 peer-reviewed manuscripts (1/2 first author) and present findings at national conferences
- Implement 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, demographic, and infectious disease data

**University of Michigan Health Service**, *Health Data Analyst* Ann Arbor, MI | 2021 – 2023

- Synthesize, evaluate, and communicate regular data updates (e.g., operational metrics, communicable diseases, lab test results)
- Query and report to organization and university leadership regarding a range of clinical, financial, and administrative processes and results
- Leverage R, Python, SQL, and Tableau for data mining, processing, visualization, and presentation
- Present research findings at national conferences and publish 2 peer-reviewed manuscripts

**University of Virginia Medical School**, *Laboratory Specialist* Charlottesville, VA | 2018 – 2020

- 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
- Present research findings in an international conference

### ORGANIZATIONS

**Institute at Brown for Environment and Society**, Brown University Providence, RI | 2023 - present

### PEER-REVIEWED PUBLICATIONS

1. Ury, B., **Stamper, A.**, & Baker, R. (2026). Climate influences on hospitalization patterns in Mexico: Evidence from 30 million records. Environmental Research Communications. <https://doi.org/10.1088/2515-7620/ae37d9>
2. **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>

3. 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>
4. Lewis, N. M., Delahoy, M. J., Sumner, K. M., Luring, 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>
5. 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>

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## 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

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## 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

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

**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, Hammarskjöld 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