

HRISHIKESH (RISHI) LAMICHHANE

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EDUCATION

Brown University School of Public Health

Master of Public Health: Health Economics and Policy Analysis

Providence, RI

Expected May 2028

Springfield College

B.S. in Computer and Information Sciences; B.S. in Public Health

Springfield, MA

May 2025

TECHNICAL SKILLS

Programming: Python (pandas, scikit-learn, matplotlib, seaborn), R (tidyverse, dplyr, ggplot2)

Methods: Logistic regression, XGBoost, decision trees, KNN, neural networks, k-means clustering, SHAP, cross-validation, ANOVA, qualitative coding, inter-rater reliability

Tools: RStudio, Jupyter, ArcGIS

RESEARCH EXPERIENCE

Research Assistant

The Wellness Institute, Springfield College

August 2023 – May 2025

Springfield, MA

- Built a k-means clustering model in Python to segment 11 months of Oura Ring sleep data from 108 participants.
- Performed exploratory data analysis, including a correlation heatmap of 20+ sleep and physiological variables for feature selection.
- Used one-way ANOVA to compare clusters on heart rate variability, REM and deep sleep and physical activity
- Coded 100+ interview and focus group transcripts, compiled the codebook, calculated inter-rater reliability, and mapped codes into themes for dissemination.
- Led the literature review, helped write the manuscript, and presented a first-author poster at APHA 2024.

PUBLIC HEALTH POLICY EXPERIENCE

Strategic Planning Initiative for Families and Children Intern

Collaborative Educational Services

May 2024 – July 2024

Northampton, MA

- Built a policy-tracking database of alcohol regulations across municipalities in Hampshire and Hampden Counties, identifying gaps relative to the Massachusetts liquor license cap
- Led quarterly Alcohol and Cannabis Subcommittee meetings with 30+ stakeholders, analyzing state policies (liquor license caps, the alcohol-to-go law) and presented a model town bylaw concept
- Facilitated a youth steering committee of 15+ members from Hampden and Hampshire Counties to integrate youth perspectives into prevention/harm-reduction planning

Academic Public Health Corps

Massachusetts Health Officers Association

August 2023 – December 2023

Boston, MA

- Conducted data-driven public health analyses for Massachusetts municipalities, supporting tobacco control policy, opioid settlement fund allocation, and community health needs assessments
- Performed geospatial analysis in ArcGIS to map smoking cessation patterns and identify spatial disparities across communities for local boards of health
- Coordinated consulting projects with local health departments, translating findings into evidence-based recommendations

PROJECTS

CardioPALS: Cardiovascular Risk Prediction | Python | RI-AI4H Datathon, Brown University

July 2026

- Built heart disease risk models (XGBoost, logistic regression) on Synthea synthetic health records for Rhode Island's Hispanic/Latino population; used SHAP to explain key risk drivers

Breast Cancer Classification | Python | Computer Systems Seminar Project

April 2024

- Compared logistic regression, decision tree, KNN, and neural network classifiers on the Wisconsin Diagnostic dataset (n = 569, 30 features)
- Standardized features and evaluated with an 80/20 split and 5-fold cross-validation; best models reached ~95% accuracy