



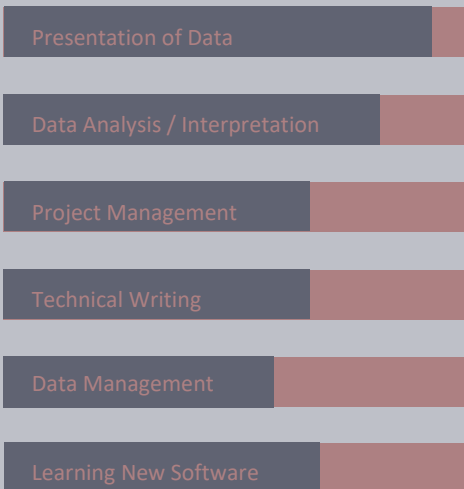
Amy Riffe

Quantitative Data Scientist



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[Vizume](#)

SKILLS



EDUCATION

Data Science Professional Certificate
HarvardX
2020

Master of Public Health emphasis in epidemiology
Wichita State University
2000-2001

M.A. in Anthropology with emphasis in biological anthropology
Wichita State University
1998-1999

B.S. in Anthropology with emphasis in biological anthropology
University of Utah
1995-1997

ABOUT ME

A varied background has led to experience and skills in storytelling about health data through collection, analysis, and visualizations.

Maintains databases of survey results, population-based data, healthcare data, and other data resources. Analyzes and interprets data, performs biostatistical analysis, and reports conclusions. Assist groups in designing/implementing appropriate assessment/research activities or program evaluation. Works with project teams on completing publications, story maps, infographics, or data visualizations from initial concept to finished product. Developed the use of online and interactive data visualization. Responsible for spatial analysis and data mapping.

EXPERIENCE

Epidemiologist/Research Scientist

Spokane Regional Health District/Spokane, WA/January 2004 to present

Provides public health research capabilities to the community on many disease topics. Plans and implements research projects in coordination with partners. Analyze data to provide information that is important for program planning, strategic planning, and policy development.

- ETL of Covid19 data and presentation of data. Viz viewed 6,000-7,000 times per day as the source of current information for the community.
- Maintain local public health indicators that are used in planning and support of programs and in agency strategic planning.
www.countyhealthinsights.org
- Determined which data visualization software to purchase. Became lead user and resource for others learning the software.
- Only user of mapping and spatial analysis software. Primary user of online mapping resource and for others learning the online version.
- Presenter at local, state, and national conferences on various topics.
- Gathered and assessed needs and concerns from the community and integrated the findings with quantitative health issues to provide comprehensive reports.
- Geographically displayed health data to identify neighborhoods at higher risk for poor health outcomes.
- Member of statewide groups for identifying technical specifications for a new data analysis interface tool, developing useful public health indicators, and determining the possibility of collection of emergency department data.
- Member of a small community group that facilitated many community focus groups to identify community indicators and develop a website for broad access to the information.

SOFTWARE

General

Microsoft Office

Word

Excel

Power Point

Paint.net

Data Analysis

Stata

R

SPSS

EpilInfo

JoinPoint

Survey Development

Survey Monkey

SNAP Surveys

Mapping

ArcGIS

ArcGIS Online

Data Visualization

Tableau

Power BI

Adjunct Professor

Roseman University/South Jordan, UT/August 2012

Taught an introduction to epidemiology and biostatistics to dental students as part of an evidenced-based science block of classes. The goal was to have the dental students understand research methods and mathematical tests to be able to critically evaluate scientific literature.

- Developed teaching plan and materials for course.

Epidemiologist

Snohomish Health Department/Everett, WA/Aug 2001-Dec 2003

Provided data analysis and research capabilities regarding maternal and child health. Facilitated a broad community program for reviewing childhood fatalities.

- Developed a set of maternal and child health reports.
- Performed program evaluations to improve program effectiveness and assist in social marketing.
- Maintained a database of childhood deaths. Facilitated discussions to improve investigation process and develop preventive measures to prevent future child deaths.
- Developed a SIDS awareness campaign through research and focus groups.

Health Alert Network Program Manager

Sedgwick County, Wichita, KS, 2000-2001

Facilitated use of the Health Alert Network between county health departments and the state health department.

- Surveyed 99 county health departments to gather staff capacity and skills. Identified regions whereby the counties in a region would have sufficient skills to respond to a public health emergency.
- Liaison between county health departments and the state health department. Ensured needs and concerns were appropriately presented and discussed.

Previous Employment

1989-2000

- Crime scene investigator
- Licensed practical nurse
- Medical assistant
- Aerospace medic in the US Air Force

- Life Expectancy. 2019. For Adams, Asotin, Ferry, Lincoln, Pend Oreille, Spokane, and Stevens counties.
- County Health Insights website. 2018-present. Ongoing data updates.
- That Hurt: Injury Data and Prevention Strategies for Spokane County. 2017.
- Falls in Washington's East Region. 2017.
- Suicide in Washington's East Region. 2017.
- Confronting Violence. 2016.
- Opioid Overdose and Misuse Report. 2015. 2017.
- Walk Bike Bus. Project Evaluation Report. 2015. 2016. 2017.
- Recovering Smiles. Project Evaluation Report. 2015.
- Linking Transportation Planning and Health Outcomes. 2014.
- Start Healthy, Start Now. Community Transformation Grant Evaluation. 2014.
- Avoidable Hospitalizations and Premature Death, Lincoln County, WA. 2014.
- Gun Violence in Spokane County. 2013.
- Voluntary Smoking Policies, Spokane County Multi-Family Property. 2013, 2015.
- Healthy Families, Better Beginnings. 2013.
- Access and Functional Needs in Spokane County. 2013, 2015.
- Seniors and Fall-Related Injuries in Spokane County. 2012, 2014.
- Lincoln County Community Health Assessment. 2012.
- Opioid Prescribing: Spokane County Dentists. 2012.
- Healthy Smile, Healthy Life. Improving Oral Health in Spokane County. 2010.
- Leading Causes of Death. Annually 2005-2015.
- Teenage Pregnancy Outcomes. 2007, 2009, 2010, 2014, 2015, 2016.
- Uninsured in Spokane County. 2005, 2007, and 2009.
- Spokane Counts. 2005, 2007, 2009, 2011, 2015, 2017.
- Spokane County Demographics. 2005, 2009, 2011, 2015.
- Health Care Access Indicators. 2007 and 2009.
- Healthy Youth: Substance Use, Health, and Behaviors. 2005, 2007, 2009.
- Learning Distractions. 2005, 2007, and 2009.
- A Healthy Start: Spokane's Future. 2008.
- Disability in Spokane County. 2004, 2006, 2008.
- Suicide in Spokane County. 2008.
- Influenza and Pneumonia, A Continuing Health Threat. 2005, 2008.
- Healthy Youth: Community, Education, and Family. 2005, 2007.
- Aging With Care. 2007.
- Characteristics and Trends of the Adult Uninsured in Spokane County. 2007.
- Healthy Choices through Environmental Change. 2004, 2006.
- Unintended Pregnancy. 2004.
- Maternal and Child Health in Snohomish County, Series I: A report on the health of women of childbearing age. 2003.
- Maternal and Child Health in Snohomish County, Series II: A report on the health of children 1-17. 2003.
- Maternal and Child Health in Snohomish County, Series III: A report on the health of infants age birth to 12 months. 2003.
- Maternal and Child Health in Snohomish County, Series IV: A report on the health of pregnant women. 2003.
- Motor Vehicle Crashes with Child Fatalities: Summary of Snohomish County Child Death Review Data, January 1, 1999 – October 31, 2002. 2003.
- Snohomish County SMILE Survey, 2000. 2002.

— Behavioral Health.

https://public.tableau.com/views/MentalHealth_16044417087910/MentalHealthIndicators?:language=en&:display_count=y&:origin=viz_share_link

— COVID19 Cases, Hospitalizations, and Deaths. https://public.tableau.com/views/COVID-19_Cases_2020_2/DATAOVERVIEW?:language=en&:display_count=y&:origin=viz_share_link

— COVID19 School Age Children.

https://public.tableau.com/views/CovidSchoolAge/Dashboard1?:language=en&:display_count=y&:origin=viz_share_link

— COVID19 Cases by Age. https://public.tableau.com/views/Covid-19CasesbyAge2/Dashboard1?:language=en&:display_count=y&:origin=viz_share_link

— County Health Insights. www.countyhealthinsights.org. See Indicators.

— Pencils of Promise. Winner of Data for a Cause challenge. <https://public.tableau.com/shared/2WXYXNNYW>

— Life Expectancy in Spokane County. <https://public.tableau.com/views/LifeexpectancySpokaneCounty/Spokane>

— Spokane Valley Complete Streets measures

<https://public.tableau.com/views/completestreets/SpokaneValleyEPASmartGrowth>

— Quality of Life, Spokane County. https://public.tableau.com/views/QOL_0/CitizenSatisfaction

— Domestic Violence, Spokane County. <https://public.tableau.com/views/DomesticViolence2/Dashboard1>

— Public Health Spending, WA, 2016.

<https://public.tableau.com/views/PublicHealthFunding2016/FundingforPublicHealth>

— Handle with Care, child population.

<https://srhd2.maps.arcgis.com/apps/MapSeries/index.html?appid=6c836096d5a84dceba29be4f2aa183e4>

— Housing Inequities and Life Expectancy.

<https://srhd2.maps.arcgis.com/apps/StorytellingSwipe/index.html?appid=cdbeb1d7fd0241a183485751e1ed536b>

— Oral Health. Be patient while data loads. The group chose not to add their discussion points and share the story map. Rather used it for discussions within the planning group.

<https://srhd2.maps.arcgis.com/apps/Cascade/index.html?appid=2cd25cccb46343feaf9d9bc98839e83>

— Tobacco, vapor, and marijuana retailers and their proximity to schools.

<https://srhd2.maps.arcgis.com/apps/MapSeries/index.html?appid=c99b2fb7bcb74a0d903294a40a1c6049>

— Better Health Together Community Linkage Maps. A network analysis of the region.

<https://srhd2.maps.arcgis.com/apps/MapSeries/index.html?appid=4dc73bc41bd747f48cb64b5853d28975>

— Mumps Outbreak in Spokane County, 2016/2017. This is not a public map.

<https://srhd2.maps.arcgis.com/apps/TimeAware/index.html?appid=ec1bdf0a7ba407c8e0c7f707ac023fd>

— High Bike/Ped Collisions around Parks and CVD Mortality.

<https://srhd2.maps.arcgis.com/apps/CompareAnalysis/index.html?appid=d01a22c621084b0f8dac97b0ba10f591>