

Caleigh Alicyn Curley

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RESEARCH INTERESTS

**Public Health Policy · Health Equity · Community Wellness · Food Sovereignty ·
Community Engaged Research · Decolonial Science · Indigenous Data Governance**

CURRENT POSITION

Research Program Administrator

Tucson, AZ

University of Arizona

July 2022-Present

Collaboratively works with the Intertribal Council of Arizona (ITCA) and the Arizona Department of Health to improve Indigenous data governance policies throughout Arizona.

EDUCATION

Northern Arizona University

Flagstaff, AZ

B.S. *Biomedical Sciences. Minor: Chemistry.*

2014-2018

Northern Arizona University

Flagstaff, AZ

MPH. *Health Promotion with Indigenous Health Emphasis*

2019-2020

University of Arizona

Tucson, AZ

DrPH. *Public Health Policy and Management. Minor: Health Promotion.*

2021-Present

RESEARCH EXPERIENCE

Research Technician

Flagstaff, AZ

Northern Arizona University

Winter 2020-Fall 2023

Collaboratively works with the Navajo Epidemiology Center, the Community Outreach Patient Empowerment, and other Tribal entities to study the impact of the 2% tax of unhealthy foods. Findings from this study are used to inform Tribal leaders and policymakers.

Research Consultant

Flagstaff, AZ

Northern Arizona University

Summer 2021

Partnered with Diné Food Sovereignty Alliance to teach local health champions on the Navajo Nation how to develop a community wellness proposal using funds generated from the 2% tax on unhealthy foods.

Graduate Research Assistant

Flagstaff, AZ

Northern Arizona University

Fall 2019-Fall 2020

Collaborated with the Navajo Epidemiology Center and the Community Outreach Patient Empowerment program to determine the fidelity and implementation of a 2% tax of unhealthy foods on the Navajo Nation.

Research Specialist

Flagstaff, AZ

Northern Arizona University

Fall 2018-Summer 2019

Collaborated with the Navajo Epidemiology Center to prepare for the second round of the Navajo Nation Behavior Risk Factor Surveillance Survey (NNBRFSS). Facilitated with other projects such as an elder needs assessment.

INTERNSHIPS

Research Intern

Phoenix, AZ

National Institutes of Health

Summer 2018

Completed an independent project focused on identifying the genetic determinants of type 2 diabetes. Identified a stop-gain variant in the gene encoding D-amino acid oxidase (*DAO*) as one of the strongest variants associated with lower 24hr energy expenditure. This variant is also associated with lower insulin secretion.

Research Intern

Flagstaff, AZ

Northern Arizona University

Fall 2016-Spring 2018

Completed research training and contributed to existing projects about the effect of binge alcohol drinking on the innate immune system. Completed an individual project focused on identifying the effect of binge alcohol drinking on the ability of *Burkholderia thailandensis* to adhere and invade a variety of epithelial cell types.

Research Intern

Boston, MA

Massachusetts General Hospital

Summer 2017

Contributed to a project aimed to provide an early, noninvasive diagnosis of pancreatic ductal adenocarcinoma (PDAC) using a novel extracellular vesicle flow cytometry method across preclinical and clinical PDAC samples.

Public Health Intern

Fort Defiance, AZ

Tsehootsooi Medical Center

Summer 2016

Worked with the Partnership to Improve Community Health department to build community gardens and increase access to healthy foods.

Public Health Intern

Fort Defiance, AZ

Tsehootsooi Medical Center

Summer 2015

Worked with the Health Promotion and Disease Prevention department to coordinate a series of walks/runs within different communities to increase access to physical activity opportunities.

PEER-REVIEWED PUBLICATIONS

1. Carson, W. O., **Curley, C.**, Goldtooth-Halwood, R., McClelland, D. J., Carroll, S. R., Yuan, N. P., Carvajal, S., & Cordova-Marks, F. M. (2024). Examining Indigenous identity as a protective factor in mental well-being research in the United States: A scoping review. *International Journal of Environmental Research and Public Health*, 21(11), 1404. <https://doi.org/10.3390/ijerph21111404>
2. Garba, I., Sterling, R., Plevel, R., Carson, W., Cordova-Marks, F. M., Cummins, J., **Curley, C.**, David-Chavez, D., Fernandez, A., Hiraldo, D., Hiratsuka, V., Hudson, M., Jäger, M. B., Jennings, L. L., Martinez, A., Yracheta, J., Garrison, N. A., & Carroll, S. R. (2023). Indigenous Peoples and research: Self-determination in research governance. *Frontiers in Research Metrics and Analytics*, 8, 1272318. <https://doi.org/10.3389/frma.2023.1272318>
3. **Curley C.**, Eddie R, Tallis K, Lane TS, Yazzie D, Sanderson PR, Lorts C, Shin S, Behrens TK, George C, Antone-Nez R, Ashley C, de Heer HD. The Navajo Nation Healthy Diné Nation Act: Community Support of a 2% Tax on Unhealthy Foods. *J Public Health Manag Pract*. 2023 Sep-Oct 01;29(5):622-632. <https://doi.org/10.1097/PHH.0000000000001753>
4. Eddie, R., **Curley, C.**, Yazzie, D., Francisco, S., Antone-Nez, R., Begay, G. A., Sanderson, P., George, C., Shin, S. S., Jumbo-Rintila, S., Teufel-Shone, N., Baldwin, J. A., de Heer, H. D. (2022). Practicing Tribal

Sovereignty through a Tribal Health Policy: Implementation of the Healthy Diné Nation Act on the Navajo Nation. *Preventing Chronic Disease*, 19, 220106. <https://doi.org/10.5888/pcd19.220106>

5. Sean, E. O., S., John, B., Greenfeld, A., Alsbury, R., Egge, M., Sandman, S., George, C., Curley, C., **Curley, C.A.**, de Heer, H. D., Begay, G.A., Jumbo-Rintila, S., Ashley, M.E., Yazzie, D., Antone-Nez, R. & Shin, S. (2022). Implementation of Indigenous Food Tax Policies in Stores on the Navajo Nation. *Health Promotion Practice*, 23(1_suppl), 76S-85S. <https://doi.org/10.1177/15248399221112964>
6. John, B., Etsitty, S., Greenfeld, A., Alsbury, R., Egge, M., Sandman, S., George, C., Curley, C., **Curley, C.A.**, de Heer, H. D., Begay, G., Jumbo-Rintila, S., Ashley, M.E., Yazzie, D., Antone-Nez, R., & Shin, S. (2022). Navajo Nation Stores Show Resilience During COVID-19 Pandemic. *Health Promotion Practice*, 23(1_suppl), 86S-95S. <https://doi.org/10.1177/15248399221118393>
7. Trujillo Lalla, A., George, C., Bancroft, C., Edison, T., Ricks, A., Tabb, K., Sandman, S., Salt, S., Curley, C., de Heer, H. D., **Curley, C. A.**, Yazzie, D., Shin, S. S. (2022). Shopper purchasing trends at small stores on Navajo Nation since the passage of Healthy Diné Nation Act Tax: A multi-year cross-sectional survey. *Current Developments in Nutrition*, 6(5), 6005009. <https://doi.org/10.1093/cdn/nzac040>
8. Yazzie, D., Tallis, K., Curley, C., Sanderson, P. R., Eddie, R., Shin, S., Behrens, T. K., George, C., Antone-Nez, R., Jumbo-Rintila, S., Begay, G. A., & de Heer, H. D. (2022). The Navajo Nation Healthy Diné Nation Act: A description of community wellness projects funded by a 2% tax on minimal-to-no-nutritious-value foods. *Journal of Public Health Management and Practice*, 28(2), E471–E479. <https://doi.org/10.1097/PHH.0000000000001371>
9. George, C., Bancroft, C., Salt, S., Curley, C., **Curley, C.A.**, Eddie, R., Edison, T., de Heer, H., Sanderson, P.R., Yazzie, D., & Antone-Nez R. (2021). Successful implementation of the Healthy Diné Nation Act in stores on the Navajo Nation. *Preventive Medicine Reports*, 24, 101573. <https://doi.org/10.1016/j.pmedr.2021.101573>
10. George, C., Bancroft, C., Salt, S. K., Curley, C., **Curley, C.A.**, de Heer, H. D., Yazzie, D., Eddie, R., Antone-Nez, R., & Shin, S. S. (2021). Changes in food pricing and availability on the Navajo Nation following a 2% tax on unhealthy foods: The Healthy Diné Nation Act of 2014. *PLOS ONE*, 16(9), e0256683. <https://doi.org/10.1371/journal.pone.0256683>
11. Yang, K. S., Lin, H., **Curley, C.**, Welch, M. W., Wolpin, B. M., Lee, H., Weissleder, R., Im, H., & Castro, C. M. (2020). Bead-Based Extracellular Vesicle Analysis Using Flow Cytometry. *Advanced Biosystems*, 2000203. <https://doi.org/10.1002/adbi.202000203>
12. Yazzie, D., Tallis, K., **Curley, C.**, Sanderson, P. R., Eddie, R., Behrens, T. K., Antone-Nez, R., Ashley, M., Benally, H. J., Begay, G. A., Jumbo-Rintila, MA, S., & de Heer, H. D. (2020). The Navajo Nation Healthy Diné Nation Act: A Two Percent Tax on Foods of Minimal-to-No Nutritious Value, 2015–2019. *Preventing Chronic Disease*, 17, 200038. <https://doi.org/10.5888/pcd17.200038>

Forthcoming:

13. Halmai, N. B., Taitingfong, R., Jennings, L. L., Yracheta, J., Garba, I., Lund, J. R., **Curley, C. A.**, Claw, K. G., Tualii, M., Garrison, N. A., & Carroll, S. R. (2024). Indigenous data sovereignty in genomics and human genetics: Genomic equity and justice for Indigenous peoples. *Annual Review of Genomics and Human Genetics*. Manuscript in review.

OTHER PUBLICATIONS

1. Carroll, S. R., Small-Rodriguez, D., Suina, M., Taitingfong, R., **Curley, C.**, Yracheta, J., Frias, H., Jennings, L., Ore, C., David-Chavez, D., Ellenwood, C., Martinez, A., Garba, I., & Akee, R. (2024). *Indigenous data governance brief*. United States Indigenous Data Sovereignty Network. <https://doi.org/10.6084/m9.figshare.2653081>

ACADEMIC CONFERENCES & SELECTED PRESENTATIONS

1. **Curley, C.** The Navajo Nation Healthy Diné Nation Act: Community Support of a 2% Tax on Unhealthy Foods. Oral Presentation. Navajo Nation Human Research Review Board Conference. Flagstaff, AZ. **October 2023.**

2. **Curley, C.**, and DeHeer, H. Physical Activity and Nutrition Behaviors among Navajo Nation residents: Data from the Navajo Nation Health Survey. Poster presentation. Northern Arizona University Health Sciences Poster Symposium, Flagstaff, AZ. **November 2020**
3. **Curley, C.**, Yazzie, D., Tallis, K., DeHeer, H., Sanderson, P., Francisco, S., and Antone-Nez, R. Navajo Nation Healthy Diné Nation Act: Compliance, Distribution, Implementation, and Community Support of 2% Tax on Unhealthy Foods. Poster presentation. American Public Health Association Annual Conference, Philadelphia, PA. **November 2019**
4. **Curley, C.**, Yazzie, D., Tallis, K., DeHeer, H., Sanderson, P., Francisco, S., and Antone-Nez, R. Navajo Nation Healthy Diné Nation Act: Compliance, Distribution, Implementation, and Community Support of 2% Tax on Unhealthy Foods. Oral presentation. Council of State and Territorial Epidemiologists Annual Conference, Raleigh, NC. **June 2019**
5. **Curley, C.**, Sutherland, J., Nair, A., Piaggi, P., and Baier, L. Functional assessment of a predicted stop-gain variant in D-amino acid oxidase (*DAO*) that associates with energy expenditure and insulin secretion. Poster presentation. National Institutes of Health, Bethesda, MD. **August 2018**
6. **Curley, C.**, Jimenez, V., and Monroy, F. The effects of binge alcohol and *B. thailandensis* epithelial invasion. Northern Arizona University, Flagstaff, AZ. **April 2018**
7. **Curley, C.**, Yang, K., Im, H., Weissleder, R., and Castro, C. High-throughput plasma extracellular vesicle analysis for detection of pancreatic cancer. Oral presentation. Massachusetts General Hospital, Boston, MA. **August 2017**

TEACHING/MENTORSHIP EXPERIENCE

Mo's Policy Scholar Mentor	Tucson, AZ
University of Arizona	Fall 2024
Co-Instructor: Indigenous Research and Ethics	Tucson, AZ
University of Arizona	Fall 2023

CERTIFICATIONS

CITI Program	<i>Expiration: 06/2026</i>
Social and Behavioral Research Investigators	
CITI Program	<i>Expiration: 06/2026</i>
Native American Research	
Certified Health Education Specialist	<i>Expiration: 04/2026</i>
National Commission for Health Education Credentialing	
Grant Writing Certification	<i>Completion: 06/2022</i>
Northwest Native American Research Center for Health	
Indian Health Policy Certification	<i>Completion: 06/2022</i>
Northwest Native American Research Center for Health	

HONORS & REWARDS

▪ Pima Indian Health Care Award	<i>Fall 2022-Spring 2024</i>
▪ Native Nations Institute Doctoral Scholar	<i>Fall 2022-Fall 2024</i>
▪ Tribal Nations Scholarship	<i>Fall 2022-Spring 2024</i>
▪ Marion R. and Hazel I. Olson Memorial Scholarship	<i>Fall 2022-Spring 2023</i>
▪ Bill and Donita Sherman Scholarship	<i>Fall 2022-Spring 2023</i>

▪ Robert and Roberta Dawson Scholarship	<i>Fall 2020</i>
▪ Avalon Daggett Scholarship	<i>Fall 2020</i>
▪ Kollis and Opal King Scholarship	<i>Fall 2020</i>
▪ Margaret Kimpton Native American Scholarship	<i>Fall 2020</i>
▪ Jim Troxell Foundation Scholarship	<i>Fall 2020</i>
▪ Guinn B. Burton Medical Scholarship Fund	<i>Fall 2019-Spring 2020</i>
▪ Dean’s List	<i>Fall 2014-Spring 2018</i>
▪ Chief Manuelito Scholarship	<i>Fall 2014-Spring 2018</i>
▪ Sally Flemming Scholarship	<i>Fall 2014-Spring 2018</i>
▪ Northern Arizona Lumberjack Scholarship	<i>Fall 2014-Spring 2018</i>

ACADEMIC PROGRAMS

Roots for Resilience Data Science Fellow	Tucson, AZ
<i>University of Arizona</i>	<i>Fall 2024</i>
Writing Research Indigenous Team Expanding Scholar	Tucson, AZ
<i>University of Arizona</i>	<i>Fall 2023-Present</i>

MEMBERSHIP

Arizona Public Health Association (member)	<i>2022-Present</i>
Collaboratory for Indigenous Data Governance (member)	<i>2020-Present</i>
American Public Health Association (member)	<i>2018-Present</i>

AMBASSADOR

Mel and Enid Zuckerman College of Public Health Ambassador	Tucson, AZ
<i>University of Arizona</i>	<i>2022-2024</i>

REFERENCES

Upon Request