

## ANNALISE GUTHRIE

Citizen of Cherokee Nation  
annalise.guthrie@gmail.com  
annalise.guthrie@ku.edu  
816-258-2422

---

### RESEARCH INTERESTS

- Climate Change •Traditional Ecological Knowledge •Biogeochemistry •Wetland Ecosystems
- Sustainability •Native Plant Communities

### EDUCATION

University of Kansas, Lawrence, KS

National Institutes of Health

Post Baccalaureate Research Education Program (PREP), 2020-Present

Department of Ecology and Evolutionary Biology – Research Scholar

Advisors: Kathy Denning and Sharon Billings

Haskell Indian Nations University, Lawrence, KS

Bachelor of Science, 2020

Environmental Science – Department of Natural Science

Advisor: Chuck Haines

*Magna Cum laude*

### PROFESSIONAL/RESEARCH EXPERIENCE

National Institutes of Health: Postbaccalaureate Research Education Program

University of Kansas; Lawrence, KS

Summer 2020-Present

Graduate Research Assistant

Department of Ecology and Evolutionary Biology

Advisor: Dr. Sharon Billings

Project Title: *Trends in soil structure across the United States and within soil horizons using NEON and EPSCoR data*

Department of Commerce: National Oceanic and Atmospheric Administration Educational Partnership Program/Minority Serving Institutions Scholar, Class of 2018- 2020

- Kachemak Bay National Estuarine Research Reserve (KBNERR): Homer, AK  
May 2019-August 2019

Advisors: Dr. Coowe Walker and Rosie Masui

Project Title: *KBNERR and Seldovia Village Tribe-Building Tribal Resiliency and Community Monitoring in South-central Alaska*

Drafted scientific practicum that integrates Seldovia Village Tribe and KBNERR. Surveyed scope of field projects at KBNERR, e.g. harmful algal bloom and invasive species monitoring, maintenance of weather towers, clam and shellfish surveys, analysis of fish communities.

- **Ocean Acidification Program: Silver Spring, MD**  
**May 2018-August 2018**  
**Advisors:** Dr. Libby Jewett and Jennifer Mintz  
**Project Title:** *Ocean Acidification Toolkits-Keeping Ocean Acidification in the Public Eye in the Pacific Northwest*  
Created educational and communication tools to allow NOAA scientists to explain ocean acidification and NOAA's research to K-12 audiences. Organized piloting of tools to 41 students, gauged effectiveness and augmented tools based on pilot feedback. Finalized tools and prepared for distribution to NOAA Northwest Fisheries Science Center.

**Environmental Protection Agency Haskell Tribal ecoAmbassador Program**

**Student Intern & Vice President of Student Committee**

**Haskell Indian Nations University; Lawrence, KS**

**August 2017-Spring 2020**

Logistical/strategic planning of effective land management, restoration, remediation of the Haskell Wetlands. Led weekly meetings in which I initiated and created project proposals. Coordinated campus events that promoted environmental stewardship and awareness e.g. 3rd Annual Haskell Wetland Restoration Day.

**Tepa/Tehama LLC**

**Environmental Science Student Intern**

**Kansas City, MO**

**August 2018-December 2019**

Supported Environmental Department and Project Scientists with Air Force Base inspections for aqueous film forming foam usage (PFOS/PFOA). Drafted site investigation summary reports based off of preliminary assessments and site inspections. Organized data within Outlook SharePoint.

**Haskell Indian Nations University: Undergraduate Research**

**Lawrence, KS**

**Spring 2018**

**Advisor:** Dr. Bridgett Chapin

**Project Title:** *Theoretical Prescribed Burn Plan for the Haskell Wetlands*

Designed an area inventory of Haskell Wetlands of Lawrence, KS using drone imagery and examined invasive species.

**VOLUNTEER EXPERIENCE**

**Cherokee Nation, Kansas City Cherokee Community Board of Directors**

**Kansas City, MO**

**Elected Chairperson and Treasurer**

**April 2016-Present**

Initiate, organize, and conduct multiple cultural events and opportunities for the at-large citizens of Cherokee Nation. Manage financial awards, membership dues, and disbursement of community assistance funds. Serve on Scholarships/Grants Committee and Election Committee.

Haskell Indian Nations University  
Environmental Science Tutor  
Lawrence, Kansas  
Spring 2019-Spring 2020

### AWARDS/ACADEMIC SCHOLARSHIPS

Society for the Advancement of Chicanos and Native Americans in Science National Conference 2020

#### **Outstanding Poster Presentation 2020**

American Indian Science and Engineering Society National Conference 2018 **3<sup>rd</sup> Place Oral Presentation**

American Indian College Fund Full Circle Scholar **Received \$13,000 in funds**

American Indian College Fund Kathrine Scallan Scholar **Received \$2500 in funds**

National Oceanic and Atmospheric Administration (NOAA) Educational

Partnership Program for Minority Serving Institutions Scholar **Received \$45,000 in funds**

AT&T Tribal Council Scholar **Received \$1,000 in funds**

Environmental Protection Agency (EPA) Food Recovery Challenge Regional Award

### PRESENTATIONS

**2020 Guthrie, A.,** Jewett L., and Mintz J. *Ocean Acidification Toolkit: Keeping Ocean Acidification in the Public Eye in the Pacific Northwest*. Society for the Advancement of Chicanos and Native Americans in Science National Conference, Virtual (poster presentation).

**2019 Guthrie, A.,** Walker C., and Masui R. *Kachemak Bay National Estuarine Research Reserve and the Seldovia Village Tribe: Building Tribal Resiliency and Community Monitoring in the Pacific Northwest*. National Oceanic and Atmospheric Administration Science and Education Symposium, Silver Spring, MD (oral presentation).

**2018 Guthrie, A.,** Jewett L., and Mintz J. *Ocean Acidification Toolkit: Keeping Ocean Acidification in the Public Eye in the Pacific Northwest*. American Indian Science and Engineering Society National Conference, Oklahoma City, OK (oral presentation).

**2018 Guthrie, A.,** Jewett L., and Mintz J. *Ocean Acidification Toolkit: Keeping Ocean Acidification in the Public Eye in the Pacific Northwest*. National Oceanic and Atmospheric Administration Science and Education Symposium, Silver Spring, MD (oral presentation).

### SPECIALTY COURSES

Haskell Indian Nations University (Undergraduate)

•Environmental Protection in Indian Country •Ethnobiology •Environmental Toxicology •Wetland Ecology •General Chemistry I and II •Organic Chemistry •Plant Physiological Ecology •Records and Information Management •Physics I and II •Molecular and Cellular Biology •Organismal Biology •Introduction to Genetics •Plant Ecology •Native and Western Views of Nature • Applications of ArcGIS •Biostatistics •Remote Sensing for Spatial Analysis • Principles of Ecology • Building a Network for Environmental Problem Solving

PROFESSIONAL MEMBERSHIPS

- American Indian Science and Engineering Society
- Society for the Advancement of Chicanos and Native Americans in Science
- Cherokee Nation-Kansas City Cherokee Community