

# Assessing the Bioethical Impacts of an Indigenous Scholars Network in Genomics

#### Year

2023

## Description

Culturally congruent research that respects the values and norms of Indigenous communities is critically important to increase Indigenous peoples' representation and engagement with genomics research. The Summer internship for Indigenous peoples in Genomics (SING) short course offers training and tools for early career scientists to engage in the research process and for community members to guide their communities in interfacing with external research entities.

#### Body

Coincident with this training has been the production of ethical frameworks for the scientific community to reference when working with Indigenous communities and influential scholarship, for example, ancient human ancestry research focused on changing the practice of scientific collaboration with Indigenous communities as the core focus of research.

Recognizing that genomic research is inherent in future medical, scientific and translational research, the inclusion and involvement of Indigenous peoples is important and the role of SING to facilitate this engagement, unparalleled. We seek to objectively measure the impact of the SING program by eliciting the perceptions

and understandings of genomic science and ethics engagement of past SING participants and faculty members through focus groups, surveys, and social network analysis. These findings will inform in-person training to impact research approaches, scholarship, and public policy.

#### Our research aims are to:

- Elucidate Indigenous perspectives on genetic research and scholarship;
- Define SING interactions and influences on Indigenous genomics scholars; and
- Develop and deliver topic specific training to the general public and SING alumni.

#### **Intellectual Merit**

The proposed project will examine the intersection of ethics, culture, and professionalism for Indigenous geneticists, allies, and scientists who engage Indigenous peoples in research. A quantifiable analysis of impact on a training workshop such as SING has not been largely undertaken and will provide guidance as to the effectiveness of such programs and ways to increase their value by enhancing areas of strength and identifying those of weakness.

### **Broader Impacts**

Indigenous peoples are the most underrepresented group in genomics research. While the numbers of Indigenous peoples with graduate-level training in geneticists and related fields is unknown, we have seen an increase in members in academia and in professional societies. The proposed project will explore relationships and networks created by Indigenous scientists, the impact of the SING program, and how these relationships have allowed us to explore and shape discussions of ethical genetic research practices with Indigenous peoples.

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## Leadership

#### Matt Anderson

Associate Professor, Dept. of Microbiology and the Dept. of Microbial Infection and Immunity Ohio State University

#### Nanibaa' Garrison

Associate Professor, Institute for Society and Genetics UCLA

#### Katrina Claw

Assistant Professor, Dept. of Biomedical Informatics University of Colorado Anschutz Medical Campus

#### Alyssa Bader

Assistant Professor, Dept. of Anthropology McGill University

#### Rene Begay

University of Colorado Anschutz Medical Campus

#### Jerreed Ivanich

Assistant Professor, Centers for American Indian and Alaska Native Health, Department of Community and Behavioral Health University of Colorado Anschutz Medical Campus

#### Ripan Malhi

Professor, Department of Anthropology University of Illinois

## **Francine Gachupin**

Associate Professor, Dept. of Family and Community Medicine University of Arizona Desi Small-Rodriguez, Assistant Professor, Dept. of Sociology, UCLA

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## **Recipient Institution**

UCLA and Ohio State University

## **Start and End Date**

10/01/2021 - 09/30/2026

## **Contact Information**

Matt Anderson anderson.3196@osu.edu 614-247-0058

Nanibaa' Garrison nanibaa@socgen.ucla.edu

## **Contributor(s)**

Matthew Anderson Nanibaa' Garrison Katrina Claw

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#### **Resource Type**

Projects

## **Parent Collection**

STEM Ethics Projects (2017-Present)

## Topics

Big Data Diversity Ethics and Society Goals of Ethics Education Governance Human Subjects Research Public and Community Engagement Teaching Ethics

## **Discipline(s)**

Genetics and Genomics Teaching Ethics in STEM Research Ethics

## Publisher

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