

# **The Early Life Microbiome in Samoa: Associations with Maternal Diet and Planned Future Work**

Katherine Daiy

## **Abstract:**

This talk will explore maternal-infant microbiomes from a bio-cultural anthropological perspective — how do population-wide dietary transitions shape the microbiome of early life? I present some results from my dissertation work in Samoa, a South Pacific Island nation that has experienced a nutrition transition and rapid urbanization in recent years. With collected dietary, demographic, infant health, and anthropometric data and 16S rRNA sequencing of collected milk and infant fecal samples, we examined how maternal dietary patterns are related to the diversity and composition of the infant fecal and human milk microbiome. I also present some ideas for planned analyses and future work in my postdoctoral role with early life microbiomes in Brazil.