

Marykathryn Campos, Oregon State University, Corvallis, Oregon, USA for their project: *Decoding Magmatic Architecture in the ERP: Insights from Zircon Petrochronology*.

I am a PhD student at Oregon State University (OSU), advised by Dr. Adam Kent and working with Dr. Shanaka de Silva, studying arc magmatism: the volcanic systems that form above subduction zones and how they evolve over time. My dissertation comprises three projects, ranging from the Ecuadorian Rhyolite Province (ERP) to two ongoing studies in the Cascades, each examining a different aspect of how magma is generated, stored, and erupted along convergent margins.

My first chapter uses zircon petrochronology to test whether the ERP's calderas near Quito, Ecuador, share a single long-lived upper-crustal magma reservoir or draw from separate systems, with implications for hazard assessment in a region home to over two million people. With the Lipman grant, I will complete U-Th zircon dating at Stanford, refining the eruptive ages needed to evaluate the shared-reservoir hypothesis. My second chapter examines Collier Cone, a monogenetic Cascade volcano whose four distinct eruptive phases raise open questions about how such short-lived systems evolve, and my third turns to South Sister.

I grew up in Houston, Texas, collecting rocks and wondering how they formed. That curiosity led me to Texas A&M, where I studied the Trans-Mexican Volcanic Belt as an undergraduate, and then to Stephen F. Austin State University, where I examined andesitic dikes in New Mexico's Knight Range for my MSc. As a first-generation Mexican American and neurodivergent scientist, I also serve as an outreach docent at OSU, bringing hands-on geoscience to underserved students in surrounding communities.

