I AM QUANTUM

CHARLIE J. POLLOCK

Graduate Research and Teaching Assistant, Chemistry & Biochemistry

I model and calculate interactions between neutral atoms in a variety of geometries to predict their efficiency in quantum computing.

WHAT IS MY CONNECTION TO QUANTUM?

Quantum is the heart and soul of my research. My computational chemistry work is based on solving the Schrödinger equation to figure out how to describe the electrons surrounding the neutral atoms. Qubits, the basis for sending messages in quantum computers, can utilize behavior of electrons in neutral atoms in this form of quantum computing.

OUTSIDE OF WORK,

I enjoy a variety of pastimes. I love crafting – specifically crocheting and painting, and I also enjoy finding time to read a good book. Getting outside to hike or ski, depending on the season, has allowed me to fully enjoy Bozeman.

WHAT ADVICE WOULD I GIVE HIGH SCHOOL ME?

Continue to ask questions and chase knowledge in all aspects of your life.

LEARN MORE
montana.edu/smrc/quantum/

MONTANA STATE UNIVERSITY | QCORE