

SHANNON HAMP

Graduate Research
Assistant, Optical
Technology Center

I build, calibrate, and test remote sensing systems for environmental monitoring applications including low-cost imagers for monitoring water quality and drone-based sensors for measuring snow reflectivity.

WHAT IS MY CONNECTION TO QUANTUM?

The sensors that my research group builds to study the natural environment measure photons, which are QUANTIZED packets of light.

OUTSIDE OF WORK, I like to play outside, especially on foot or skis! I grew up recreating in the Colorado mountains, and have enjoyed exploring the mountains around Bozeman and across Montana.

WHAT ADVICE WOULD I GIVE HIGH SCHOOL ME?

Take advantage of opportunities to design and build cool things! I started to find my interest in optics and photonics when I built a parabolic passive solar heater in high school. I couldn't believe how much heat the sun could produce if you focused it just right. This small experiment propelled me into the world of optics and photonics, and I wish I'd had more of these experiences to build my excitement around engineering and design sooner.



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montana.edu/smrc/quantum/

I AM QUANTUM



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