

RILEY LOGAN

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I develop optical remote sensing instruments and techniques using imagers and LiDAR (Light Detection and Ranging) technologies. I work on all stages of the project lifecycle—from design and calibration to deployment and data analysis.

WHAT IS MY CONNECTION TO QUANTUM?

I use the QUANTIZED (particle, or photonic) nature of light to make all kinds of interesting observations about how light interacts with stuff. This has applications in biophotonics (using light to examine or manipulate biological systems) and environmental monitoring.

OUTSIDE OF WORK

I like to spend my time outside of work chasing my dog around the mountains on foot, by bike, or on skis, and getting behind on chores.

WHAT ADVICE WOULD I GIVE HIGH SCHOOL ME?

Class is so much more than something that is in the way of hanging out with friends. Pay careful attention to what gets you excited in class. I loved my high school physics class because of the projects that involved building small mechanical machines to accomplish a task as a part of a team.

Now, one of my favorite parts of my job is when I get to combine theory and application to build cool stuff for a multidisciplinary research project (which often also involves spending time with my friends).



LEARN MORE
montana.edu/smrc/quantum/



Riley is in front of an optical phenomenon called a 'cloudbow'

I AM QUANTUM



Riley with Dr. Joseph A. Shaw, Director of MSU's Optical Technology Center



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