“Machine learning around the clock.”

The daily timing of mammalian physiology is coordinated by circadian clocks throughout the body. Despite the importance of the circadian system for human health, methods to quantify the state of the clocks in humans are limited. In my talk, I will describe multiple computational methods I have recently developed to address this gap. I will also describe how applying these methods to publicly available data has enabled insights into the function of the clock in various tissues and in human cancer.