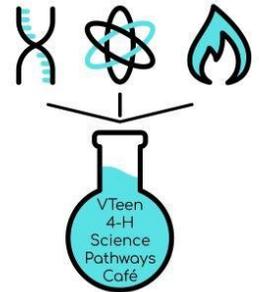




# VTeen 4-H Science Pathways Cafes



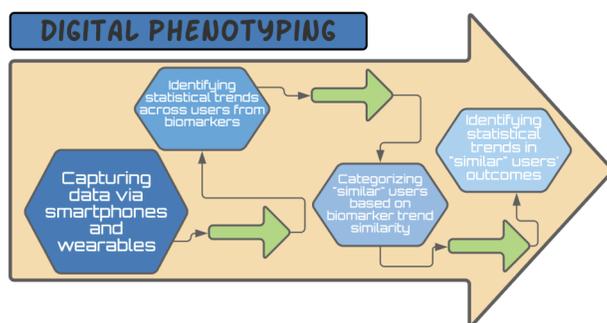
## Digital Phenotyping: Leveraging Machine Learning, Statistics, and Creativity to Model Human Health

Tuesday, December 14, 2021, 7:00-8:00 pm

Open to all youth entering grades 7-12 in VT and across the country!

Register by 12/14 @ 12 noon to receive the Zoom link

@ [www.uvm.edu/extension/youth/announcements](http://www.uvm.edu/extension/youth/announcements)



With the expanded use of smartphones and wearable devices in the past ten years, it is becoming increasingly common for companies and technology distributors to utilize the data collected from these devices to better understand — and personalize for — the user or wearer. One new avenue of this personalization is the development of *digital phenotypes* using data from wearable devices. Digital phenotypes can be thought of as a personalized digital image, or model, of health metrics, outcomes, and behavior. These models are being used to understand trends in various biomarkers and lifestyle

choices with the overall goal of revolutionizing our current health systems for diagnosing, treating, and monitoring disease and illness. Come to this café to learn more about the emergence of digital phenotyping technologies, as well as understand the tools involved in designing this new methodology!

### ABOUT OUR SPEAKER

**Bryn Loftness** is a current PhD student in the Complex Systems and Data Science program at UVM. She works primarily within the M-Sense Research Group, a collection of researchers focused on developing digital biomarkers and therapeutics for improving human health and performance. She also works with the UVM Neurobotics Lab and remotely with the Sabeti Lab of Harvard through the Broad Institute of Harvard and MIT. Bryn completed her BSc in Computer Science from Colorado Mesa University summa cum laude in December of 2020. Bryn's individual research topics relate to stress detection and community health analysis.

**What is a Virtual Teen Science Café?** It is a free, fun way for teens to explore science, engineering and technology with local scientists, engineers and technology experts. Teens will “meet a scientist”, learn about their work, and be able to participate in informal discussions.

**Questions?** Contact [lauren.traister@uvm.edu](mailto:lauren.traister@uvm.edu)

*To request a disability-related accommodation to participate in this program, please contact the 4-H Office at 802-888-4972 or [lauren.traister@uvm.edu](mailto:lauren.traister@uvm.edu) by November 23, 2021 so we may assist you.*



[www.uvm.edu/extension/youth](http://www.uvm.edu/extension/youth)