

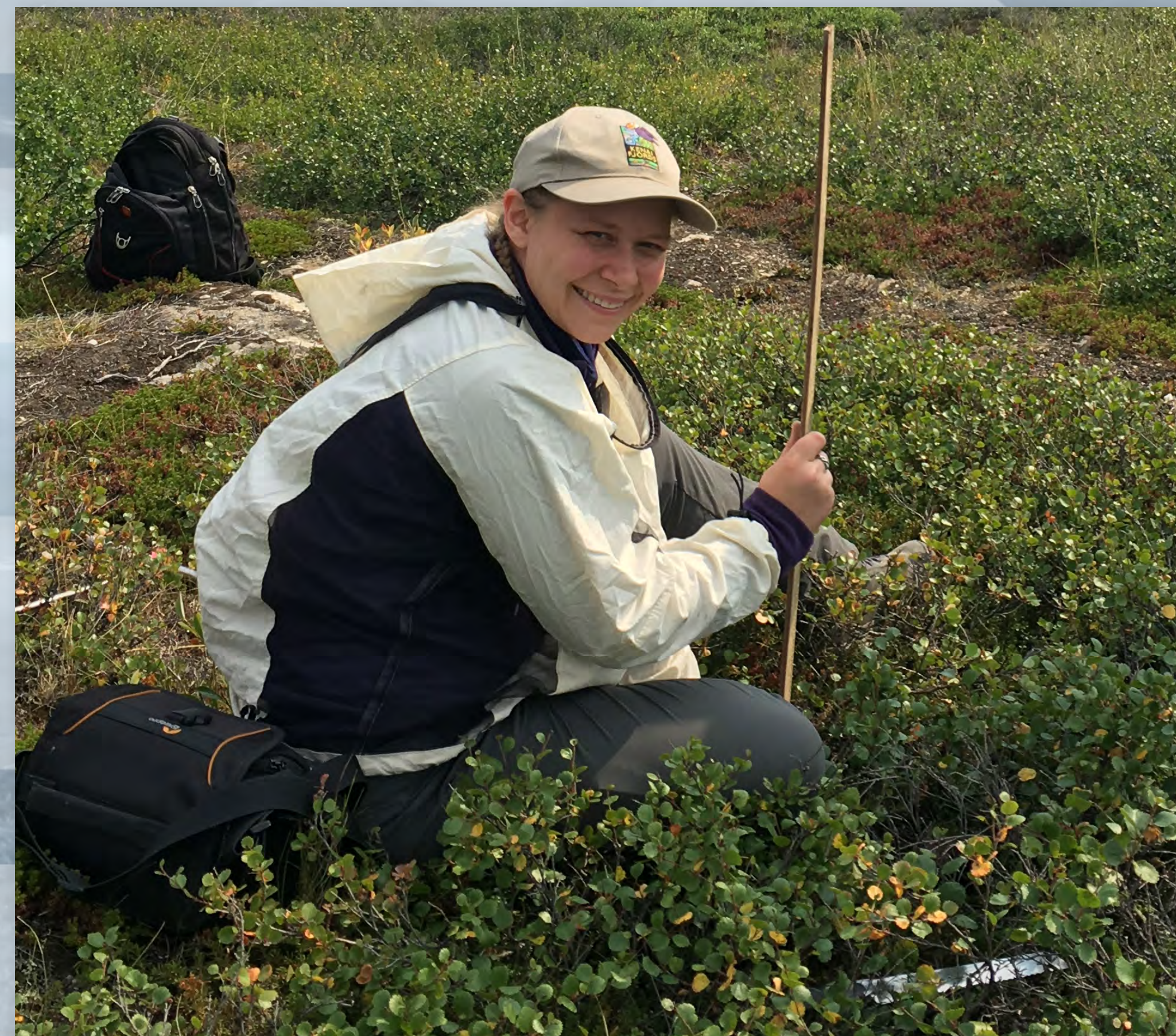


# Community MEMBER PROFILE

**Hannah Holland-Moritz**

UNIVERSITY OF NEW HAMPSHIRE  
POSTDOCTORAL RESEARCH ASSOCIATE

AREA OF EXPERTISE: SOIL/PLANT MICROBIAL ECOLOGY





*Polytrichum* moss. Sometimes called “Goldilocks” or “Haircap Moss”.

## WHAT DO YOU STUDY?

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*For several years, I've worked on microbial communities that live on mosses and how those communities might be relevant to Arctic and boreal nutrient cycles. Now, I've shifted my focus slightly to study the microorganisms that live in and around permafrost. Specifically, I'm interested in how they change when permafrost thaws, and if that change will make the Arctic a source of greenhouse gasses, or a sink of greenhouse gasses as the climate warms.*

## WHAT EXCITES YOU ABOUT THIS WORK?

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*Although I am driven by the fact that my work will help us make better predictions about the future of greenhouse gas release from the Arctic under climate change, I am most excited about the wonder and beauty of the microscopic creatures that live beneath our feet. The soils in the Arctic are home not just to plants and animals, but also to millions of tiny microorganisms who can move and interact with each other and their environment. Many of them are brand new species and, even for the ones that aren't, we are learning new things about their lives all the time.*

## WHAT ELSE WOULD YOU LIKE TO WORK ON?

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*I'm new to ARCUS, so at the moment, I'd like to learn more about what kind of work is going on and if my background can be useful to anyone.*

## WHEN YOU AREN'T DOING ARCTIC RESEARCH, WHERE MIGHT WE FIND YOU?

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*I really like photography. When I graduated from high school, my parents gave me a nice camera as a graduation gift. That camera has been one of the greatest gifts I've ever received. I mostly take landscape photographs, but I've been trying to branch out more into portraits and street photography. I enjoy how reflective photography makes me and the creative process of composing a shot. It's a beautiful way to observe and interact with the world around me.*



# Hannah Holland-Moritz

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