

Amy Lauren Richman

OBJECTIVE

To create and facilitate impactful communication and outreach initiatives that: a) call for engagement and participation in the natural world; b) engage new sectors of the public; c) advance STEM workforce with immersive learning that builds excitement and curiosity.

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EDUCATION

M.F.A Interdisciplinary Documentary Media Practices
University of Colorado Boulder
2016 – 2019

Certificate in College Teaching
University of Colorado Boulder
2016 – 2019

B.A. English & B.A. Studio Art
University of Denver
2007 – 2011

Writing Center Certificate
University of Denver
2007 – 2011

COOL THINGS!

FeelThink Studio was a 2024 Frederik Paulsen Arctic Academic Action Award Finalist

Project Sea Ice premiered at New York Fashion Week 2023

FELLOWSHIPS

2019, Hazel Barnes Flat Fellowship, London
2018, Flaherty Seminar Fellowship, New York
2017, NEST Studio for the Arts, Boulder

SELECT VISITING ARTIST LECTURES

Overview Effect: Turning Space into Place with VR
Ocean Sciences Meeting, New Orleans, 2024

“Communicating Ocean Sciences”
Alaska Marine Science Symposium
Anchorage, Alaska, 2024

“Immersive Climate Science Communication”
International Symposium on Sea Ice
Bremerhaven, Germany, 2023

“Women in Tech Global Conference”
Opening Panel Discussion, Barcelona, Spain, 2023

“Artscience Collaborations at Sea”
University of Colorado Boulder, 2023

“MOSAiC: An Artist’s Perspective”
International Arctic Research Center, Fairbanks,
Alaska, 2022

“Research at the top of the World”
Washington University, St. Louis, Missouri
2021, Virtual

“Artists at Sea” — Polar Times Podcast, 2020

“Filming MOSAiC”
APECS Polar Week, 2020, Virtual

GRANT-FUNDED PROJECT EXPERIENCE

Pending National Science Foundation Proposals

- ***New Insights Into Primary Production In The Arctic: Physical, Chemical, And Biological Impacts Of Sediment-Laden Sea Ice - NSF-OPP Sediment-Laden Ice Proposal***
- ***EAR-PRF: From Steppe to Sea: Reconstructing the Last Environments of the Bering Land Bridge***

Virtual Reality Storytelling to Engage Alaska Native Youth in Chinook Salmon Research

July 2025 – December 2027

North Pacific Research Board

Project Partners Include: NOAA Fisheries Alaska Fisheries Science Center, Sitka Sound Science Center, and Yukon Delta Fisheries Development Association The research project, initiated under NPRB Project 1308, "Early Marine Ecology of Juvenile Salmon on the Yukon Delta" (PI Miller), is a co-designed collaboration with the Yukon Delta Fisheries Development Association (YDFDA) and the Community Development Quota (CDQ) entity representing six Lower Yukon communities. This proposal uses VR to facilitate impactful and immersive-storytelling experiences that: 1) empower community members to feel involved and autonomous in the research about their home and changing environment; 2) raise confidence in researchers' abilities to communicate their work to broad audiences; 3) provide evidence-based resources for educators that increase emotional, cognitive, and behavioral engagement with science.

Alaska Science Stories (alaskasciencestories.com)

January 2024 – April 2026

North Pacific Research Board | National Aeronautical and Space Administration

Responsible for developing strategic partnerships and live-action VR films, and virtual reality films for the educational program, Alaska Science Stories, which creates space for shared research and learning experiences by bringing Alaskans into the world of scientific fieldwork with virtual reality. We facilitate impactful in-class learning that empowers Alaskans to feel involved and autonomous in their environment. Our program builds bridges between Alaskans and their local research community with immersive and interactive storytelling designed to reach those who are impacted by climate change but not at the forefront of science outreach.

Collaborative Research: Arctic atmosphere-sea ice-ocean interactions in three contrasting sea ice regimes (CONTRASTS)

July 2025 – August 2025

The National Science Foundation | The Alfred Wegner Institute

Collaborative Research: MOSAiC Sea ice Samples for Stratigraphy, Microstructure, and Inherent Optical Property Studies

August 2022 – January 2024

The National Science Foundation | The Alfred Wegner Institute

Designed and executed the SciArt education and outreach initiative, Project Sea Ice, that merges climate science and sustainable practices in fashion education. The Sea Ice Collection consists of 16 garments that each tell the story of the diminishing Arctic sea ice cover through garment design and fabrics patterned with crystalline structures of Arctic sea ice microstructure patterns. The collection premiered at New York Fashion Week 2023.

The Eastern Eurasian Basin: Rerouting fresh water between the Eastern and Western Arctic in response to atmospheric and oceanic forcings

August 2021 – August 2022

The National Science Foundation | The International Arctic Research Center

Filmed on location in the Central Arctic Ocean aboard the Russian icebreaker, Akademik Tryoshnikov, for two months during the oceanographic NABOS cruise in the capacity of science communication for education and public outreach. The culmination of this work resulted in the virtual reality and 2D film, *The Arctic Halocline*, which tells the story of the groundbreaking discoveries made by an international research program that has been monitoring the state of the Arctic Ocean continuously for the past 20 years. Filmed on location in the Arctic Ocean during the 2021 Nansen and Amundsen Basins Observational System (NABOS) cruise, narrated by Chief Scientist, Igor Polyakov, and coordinated by the International Arctic Research Center (IARC) at the University of Alaska Fairbanks.

Department of Online Education

May 2021 - May 2022

Videographer and Multimedia Specialist, Independent Contractor
St. Louis Community College, Florissant Valley

A contracted, COVID-emergency grant funded position to help teachers translate their in-class curriculum, presentations, and activities into compelling and engaging online formats for online learning.

MOSAIC: Engaging the public and students in the Multidisciplinary drifting Observatory for the Study of Arctic Climate

May 2019 – May 2021

The National Science Foundation | Cooperative Institute for Research in Environmental Science

Filmed and directed, *Drifting North*, *Into the Polar Night*, and *Arctic Pulse*, a virtual reality and planetarium film series about the largest Arctic expedition in history. In September 2019, the German research icebreaker Polarstern set sail from Tromsø, Norway, and spent a year drifting through the Arctic Ocean - trapped in ice. The goal of the MOSAiC expedition was to take the closest look ever at the Arctic as the epicenter of global warming and to gain fundamental insights that are crucial for understanding global climate change.

Lens On Climate Change | Lead Film Mentor

June 2017 & June 2018

University of Colorado Boulder

A National Science Foundation funded initiative to coach groups of middle and high school students through the process of making a film—from idea development, production & post-production—on a topic of their choosing related to climate change.

Graduate Teaching Assistant | University of Colorado Boulder

August 2016 – May 2019

Department of Critical Media Practices

Taught recitations for, Approaches to Historical Media Practices, a required introductory course to media history and theory

Continuing Education Coordinator | GoodTherapy.org

December 2012 – June 2016

Coordinated the continuing education certification program for therapist members; researched, invited and scheduled world renown mental health providers, educators and authors to give continuing education classes to therapist members; managed all live streaming online classes; managed archive of online classes; wrote therapist member certification tests; managed and completed necessary paperwork and documentation to maintain licensure to offer continuing education credits.

FILM SCREENINGS

2024

Thunder Bay Film Festival — NOAA Great Lakes Maritime Heritage Center, Michigan: The Arctic Halocline

Big Blue Film Festival — Hatfield Marine Science Center, Newport, Oregon: The Arctic Halocline

2023

COP28 UN Climate Conference, Blue Zone Ocean Pavilion — Dubai, United Arab Emirates: The Arctic Halocline

Raw Science Film Festival — Los Angeles, California: The Arctic Halocline — **Industry Award**

Barcelona Planet Film Festival — Barcelona, Spain: The Arctic Halocline — **Award Winner**

Woods Hole Oceanographic Institute Film Festival — Massachusetts: The Arctic Halocline

FIVARS Film Festival — Toronto, Canada: The Arctic Halocline

International Ocean Film Festival — San Francisco, California: The Arctic Halocline

SCINEMA International Science Film Festival — Adelaide, Australia: The Arctic Halocline

New Media Film Festival — Los Angeles, California: The Arctic Halocline

2022

Imagine Science Film Festival/LABOCINE — New York: Into the Polar Night — **Jury Stellar Award**

Polar Film Festival — Tromsø, Norway: The Arctic Halocline

International Arctic Research Center — Fairbanks, Alaska: The Arctic Halocline

Washington University Women in Science — St. Louis, Missouri: The Arctic Halocline

Noel Wien Public Library — Fairbanks, Alaska: Into the Polar Night

2021

Society for Visual Anthropology Film and Media Festival — Towson, MD (USA): Into the Polar

Night Imagine Science Film Festival — Brooklyn, NY (USA): Into the Polar Night

Toronto Film and Script Awards — Toronto, Canada: Into the Polar Night — **Award Winner**

Toronto International Women's Film Festival — Toronto, Canada: Into the Polar Night — **Award Winner**

New Media Film Festival — Los Angeles, California: Into the Polar Night — **Audience Choice Award**

Fiske Planetarium — Boulder, Colorado: Into the Polar Night

SCINEMA International Science Film Festival — Adelaide, Australia: Into the Polar Night

Polar Film Festival — Tromsø, Norway: Into the Polar Night

Berlin Lift-Off Film Festival — Berlin, Germany: Into the Polar Night

Los Angeles Lift-Off Film Festival — Los Angeles, California: Into the Polar Night

The Explorers Club Polar Film Festival — Canterbury, England: Into the Polar Night

2020

International Planetarium Society Full Dome Film Festival — Melbourne, Australia: Drifting North

Fiske Planetarium — Boulder, Colorado: Drifting North

Northern Light Planetarium — Tromsø, Norway: Drifting North

Fernbank Science Center — Atlanta, Georgia: Into the Polar Night

Pacific Science Center — Seattle, Washington: Into the Polar Night