MIRIAMNIELSEN

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Research Interests

climate variability • hydroclimate • modelling • climate-ecosystem interactions • attribution science • risk assessment • science communication

Education

Columbia University, M.A. Climate & Society — 2018

Middlebury College, B.A. Environmental Science and Creative Arts — 2014
Thesis: How online activism promotes environmental good (multimedia).
Minors: Computer Science, Chinese.

Research Experience

Summer 2019 — **International Research Institute for Climate & Society (IRI)**, Associate Researcher
Systematic review of flood and related hazard vulnerability. Developing a database of flash flood events and risk response. The project is aligned with NASA and the Group on Earth Observations (GEO) 2017-2019 work program for the Initiative for Global Flood Risk Monitoring.
Advisor: Kruczkiewicz, IRI.
Designing and communicating SatWIN-ALERT project tools.
Advisor: Dr. Helen Greatrex, IRI.

Summer 2018 — **NASA Disasters Program**, Research Intern
Analysis of global flash flood risk and response.
Advisors: Dr. Shanna McClain, NASA &
Andrew Kruczkiewicz, IRI.

Industry Experience

2017 – Present — **PBS Digital Studios**, Writer & Co-host of Hot Mess
Researching and communicating climate change for an online audience. Primarily covering stories about how climate change is affecting us and how we are adapting.

2015 – 2017 — **The Verge**, Lead Science Director
Creative and editorial director for science video content.
Research, write, direct, and host videos for multiple platforms.
Launched "Verge Science" on Facebook and "Space Craft" on YouTube.
Post Production supervisor for the first 360 video interview with First Lady Michelle Obama.

Publications

Submitted/in Preparation

1. Kruczkiewicz, Andrew; Braun, Mélody; Greatrex, Helen; **Nielsen, Miriam**; Hoffman-Hernandez, Laura; Llamanzares, Brian; Flamig, Zachary; McClain, Shanna: Moving from Availability to Use of Flood Risk and Flood Monitoring Data to Inform Decision Making for Preparedness and Response. AGU Books, (*in Review 2018.*)

Invited Presentations

6. Kruczkiewicz, Andrew; **Nielsen, Miriam**, Experiencing discrepancies in "reputable data" in the disaster management cycle. *United Nations Group of Experts on Geographical Names: First Session*, NY, NY (May 2019).
5. **Nielsen, Miriam**, Llamanzares, Brian, Global Flash Flood Risk. *NASA Goddard Space Flight Center*, Greenbelt, MD (August 2018).