




# MIRIAM NIELSEN

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## RESEARCH INTERESTS

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

## EDUCATION

Columbia University, M.A. Climate & Society 2018

Middlebury College, B.A. Environmental Studies, focus in 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*.)
6. Kruczkiewicz, Andrew; **Nielsen, Miriam**, Experiencing discrepancies in "reputable data" in the disaster management cycle. *UN 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).

## INVITED PRESENTATIONS

4. **Nielsen, Miriam**, Llamanzares, Brian, Investigating Flash Flood Risk. *The World Bank*, Washington, DC (July 2018).
3. **Nielsen, Miriam**, Climate Change but make it Fashion. *PBS Nerd Night, VidCon*, Anaheim, CA (July 2018).
2. **Nielsen, Miriam**, Ashe, Jabril, Harrison, Michael, Taking Your Educational Videos to the Next Level. *SXSWedu*, Austin, TX (March 2018). [Link]
1. **Nielsen, Miriam**, Environmental Sustainability through a Creative Lens. *Rohatyn Center for Global Affairs Symposium*, Middlebury, VT (January, May 2014).

## TEACHING & OUTREACH

### *Middlebury College*

2013                      Teaching Assistant, Mathematical Foundations of Computing  
 2012 – 2014            Teaching Assistant, Introduction to Computing

### *Additional Activities*

2019                      Guest Critic, NYU Climate and Design

## MENTORSHIPS & AWARDS


Summer 2019           Union of Concerned Scientist Advocacy Mentorship  
 2015 & 2016            Vidcon Creator Mentorship  
 2012                      Mellon Foundation Research Grant

## TECHNICAL SKILLS

Programming:    Python, MATLAB, R, HTML, CSS  $\LaTeX$   
 Software/Tools:   arcGIS, qGIS, Adobe Creative Suite, Git, IRI Data Library

## SELECTED NEWS & MEDIA

June 2018            *Hot Mess PBS*, "Why Don't We Hear About the Ozone Hole Any-  
 more?" (**Writer, Host**). [Video]  
 May 2017            *Earthjustice*, "Young Director Raises Funds for Earthjustice  
 through Project for Awesome" (**Interview**). [Article]

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## PASSIONS

ultimate frisbee • cycling • photography • hiking • blueberries • music making