

# Corey Scher

---

Conflict Ecology Lab  
College of Earth, Ocean, and Atmospheric Sciences  
104 CEOAS Admin. Bldg  
Corvallis, OR 97331-5503

[scherc@oregonstate.edu](mailto:scherc@oregonstate.edu)  
[www.whoiscorey.com](http://www.whoiscorey.com)

## Education

- 2025*                      **CUNY Graduate Center**  
Ph.D., Earth and Environmental Sciences  
Dissertation title: InSAR monitoring of landscape changes in war and conflict settings with case studies in Ukraine, Gaza, and the Jordan Valley
- 2019*                      **City College of New York**  
M.S., Geology
- 2017*                      **University of California, Berkeley**  
B.A., Geology

## Experience

- 2025-*                      **Oregon State University**  
Postdoctoral Researcher  
Damage mapping in conflict and disaster settings with open source Earth observation data
- 2024-*                      **United Nations Operations (UNOPS)**  
Geographic Information Systems (GIS) Innovation Advisor  
Development of GIS capabilities within the UNOPS Peace and Security Cluster
- 2018-2022*                      **City College of New York**  
Graduate Research Fellow  
Project: Mapping seasonal glacier melt across the Hindu Kush Himalaya with time series synthetic aperture radar (SAR)
- 2018-2020*                      **Advanced Science Research Center**  
Graduate Research Fellow  
Project: Coastal Hypoxia Analysis and Risk Tracking (CHART) through Remote Sensing and Process-based Modeling in South and Southeast Asia
- 2020*                      **NASA Jet Propulsion Lab**  
Maximizing Student Potential in STEM Summer Internship

Project: Advancing Synergies Between ECOSTRESS and SAR for Study of Structure and Thermal Regimes in Tropical, Temperate and Cold Landscapes

*2017-2018*

**City College of New York**

Graduate Research Fellow

Project: NASA's Pandora Project using spectroscopy to study the composition of the atmosphere and its interactions with Earth's environment

*2017-2019*

**University of San Francisco**

Research Affiliate

Project: Remote monitoring of groundwater overdraft with GRACE and InSAR

*2016-2017*

**University of California, Berkeley**

Undergraduate Research Apprentice

Professor Laurel Larsen, Environmental Systems Dynamics Lab

Project: Evaluating downstream hydraulic-scaling laws over large changes in drainage area with multi-frequency LiDAR

Teaching

*2017-2024*

**Department of Earth and Atmospheric Sciences, City College of New York**

Lab Instructor, Earth Systems Science

*2018*

**Department of Earth and Atmospheric Sciences, City College of New York**

Lab Instructor, Systems Analysis of the Earth

Workshops

*2024*

**NASA and USAID**

Co-design and delivery of three-day workshop on urban hazard and vulnerability assessment with Earth observation data in San Salvador, El Salvador

*2022*

**NASA Applied Remote Sensing Training (ARSET)**

Co-design and delivery of a training titled "Monitoring urban damage with interferometric synthetic aperture radar"

Awards

*2020*

**NASA Summer Maximizing Student Potential in STEM program**

*2019*

**AGU Travel Grant Recipient**

Conference: "Quest for Sustainability of Heavily Stressed Aquifers"

Valencia, Spain

## Publications

**Corey Scher**, Jamon Van Den Hoek. "Nationwide conflict damage mapping with interferometric synthetic aperture radar: A study of the 2022 Russia-Ukraine conflict." *Science of Remote Sensing* (2025): 100217.

Asi, Yara, David Mills, P. Gregg Greenough, Dennis Kunichoff, Saira Khan, Jamon Van Den Hoek, **Corey Scher** et al. "'Nowhere and no one is safe': spatial analysis of damage to critical civilian infrastructure in the Gaza Strip during the first phase of the Israeli military campaign, 7 October to 22 November 2023." *Conflict and Health* 18, no. 1 (2024): 24.

**Corey Scher**, Nick Steiner, & Kyle McDonald. "Mapping seasonal glacier melt across the Hindu Kush Himalaya with time series SAR." *The Cryosphere* 15, no. 3 (2021): 901-913.

## Conference Sessions

**Scher, Corey**, Iryna Dronova, Jamon Van Den Hoek, and Emnet Negash. "Tracking the Footprint of War: Earth and Environmental Science Perspectives on Monitoring Conflict Impacts." In American Geophysical Union Fall Meeting 2024.

## Conference Presentations

Van Den Hoek, Jamon, and **Corey Scher**. "Nationwide Mapping of Damage to Human Settlements Across Ukraine Using Sentinel-1 InSAR Coherent Change Detection." Paper presented at the Global Land Program Open Science Meeting, Online, November 5, 2024.

**Scher, Corey**. "The Science and Practice of War Damage Impact Assessment Using Satellite Radar." Application Lightning Talk presented at the SatSummit 2024, Washington, D.C., May 17, 2024.

**Scher, Corey**, and Jamon Van Den Hoek. "Nationwide mapping of damage to human settlements across Ukraine using Sentinel-1 InSAR coherence change detection." In *AGU Fall Meeting Abstracts*, vol. 2023, pp. GC23A-01. 2023.

**Scher, Corey**, and Jamon Van Den Hoek. "Decentralized, nation-wide, high-frequency war damage mapping using InSAR time series data." In *AGU Fall Meeting Abstracts*, vol. 2022, pp. NH32D-0489. 2022.

**Scher, Corey**, and David Saah. "Extent and characteristics of damage from wildfires caused by incendiary kites during protests of the Gaza-Israel barrier fence (March 2018 to present)." In *AGU Fall Meeting Abstracts*, vol. 2018, pp. NH23C-0862. 2018.

**Scher, Corey**, Kyle C. McDonald, Charles J. Vorosmarty, and David Saah. "Monitoring Sustainability of Shared Groundwater Resources using Satellite Measurement of Transboundary Aquifer

Compaction." In *Chapman Conference on the Quest for Sustainability of Heavily Stressed Aquifers at Regional to Global Scales*. AGU, 2019.

**Scher, Coery, and David Saah.** "Remote Monitoring of Groundwater Overdraft Using GRACE and InSAR." *AGU Fall Meeting Abstracts*, 2017, H11B-1176.

**Scher, Corey,** Christopher Tennant, Laurel Larsen, and Dino G. Bellugi. "Do rivers really obey power-laws? Using continuous high resolution measurements to define bankfull channel and evaluate downstream hydraulic-scaling over large changes in drainage area." In *AGU Fall Meeting Abstracts*, vol. 2016, pp. EP51A-0876. 2016.