Jazlynn Hall
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Curriculum Vitae

EDUCATION

2022	*PhD*	*Ecology and Evolutionary Biology, Columbia University* *MA: 2018, MPhil: 2019*
2016	*BS*	*Geography, University of Wyoming*
2016	*BA*	*Anthropology, University of Wyoming*

FELLOWSHIPS AND GRANTS

2020	Non-Academic Research Internship for Graduate Students (INTERN) Supplemental Funding, National Science Foundation
2016-2021	Graduate Research Fellow (GRFP), National Science Foundation
2016-2021	Dean's Fellow, Columbia University
2016	Provosts Diversity Award, Columbia University
2016	*Wyoming's Experimental Program to Stimulate Competitive Research (EPSCoR) Undergraduate Fellow, University of Wyoming*
2016	*Wyoming Research Scholar (WRSP), University of Wyoming*
2015-2016	*McNair Scholar, University of Wyoming*

PUBLICATIONS

Published

- Quebbeman, A., Menge, D., Arellano, A., **Hall, J.,** Wood, T., Zimmerman, J., & M. Uriarte (**2022**). A severe hurricane increases soil respiration and methane fluxes and triples NO2 emissions in a tropical forest. *Ecosystems*. 25, 1754-1766.
- **Hall. J.**, Scholl, M., Gorokhovich, Y., & M. Uriarte **(2022**). Forest cover lessons the impact of drought on streamflow in Puerto Rico. *Hydrological Processes*. e14551.
- DeFries, R., A. M. Osuri, and Y. Malhi. (**2021**). The Effects of Forest Degradation on Ecosystem Services. Changing Wealth of Nations 2021 background technical report, World Bank, Washington, DC.
    - **Hall, J.** is a contributing author
- **Hall, J.**, Muscarella, R., Quebbeman, A., Arellano, G., Thompson, J., Zimmerman, J.K., & M. Uriarte (**2020**). Hurricane-induced rainfall is a stronger predictor of tropical forest damage than maximum wind speeds. *Scientific Reports, 10(1), 1-10.*
- Feng et al. (2018). Rapid remote sensing assessment of impacts from Hurricane Maria on forests of Puerto Rico. *PeerJ Preprints*, 6, e26597v1.
    - **Hall, J.** is the 6th author.

In Press

- Ankori-Karlinsky, R., **Hall, J**., Murphy, L., Muscarella, R., Martinuzzi, S., Fahey, R., Zimmerman, J., & M. Uriarte. Low severity winds reduce tropical forest structural complexity regardless of climate, topography, or forest age. *Ecosystems*.

Working papers

- **Hall, J.**, Sandor, M., Parks, S., Trugman, A. T., Williams, A. P., & Hansen, W. D. Live tree forest carbon storage in the Western United States: distribution, trends, and drivers.

- Hansen, W. D., Williams, A. P., **Hall, J.**, Krawchuk, M. A., Kueppers, L. M., Sandor, M., & A. T. Trugman. 3.5 times more forest area might have burned in the western United States if fire suppression had ceased in 1984.
- **Hall. J.**, Scholl, M., Shanley, J., Matt, Serena., & M. Uriarte. Forest cover lessens hurricane impacts on peak streamflow.
- Anujan, K., **Hall, J**., & S. Naeem, Drivers of stability and spatiotemporal variation in EVI across protected areas in the Andaman Islands.

PRESENTATIONS AND POSTERS

- **Hall, J.**, Sandor, M., Parks, S., Trugman, A. T., Williams, A. P., & W. D. Hansen, Live tree forest carbon storage in the Western United States: distribution, trends, and drivers. Fall Meeting, Ecological Society of America Annual Meeting 2023, Portland OR. Oral Presentation.
- **Hall. J.**, Trugman, A. T., Williams, A. P., & W. D. Hansen, Finding the baseline: Forest carbon storage in the Western United States across climatic gradients and fire legacies. Fall Meeting, American Geophysical Union Fall Meeting. December 2022, Chicago, IL. Poster Presentation.
- **Hall, J.**, Saatchi, S., & M. Uriarte. Characterization of forest degradation from Hurricane Maria in Puerto Rico using optical and SAR imagery. American Geophysical Union 2021 Fall Meeting, New Orleans, LA. Presentation type eLightning.
- Ankori-Karlinsky, R., **Hall, J.,** & M. Uriarte. The making of living pillars: Drivers of canopy height and structural complexity of tropical forests. Ecological Society of America Annual Meeting 2021, Virtual. Oral Presentation.
- **Hall, J.**, Scholl, M., Shanley, J., Matt, S., & M. Uriarte. Vegetation damage and forest cover influence streamflow response to Hurricane Maria in Puerto Rico. Ecological Society of America Annual Meeting 2021, Virtual. Oral Presentation.
- **Hall, J.**, Scholl, M. & M. Uriarte. Forest cover mitigates the impacts of rainfall variability on streamflow in Puerto Rico. American Geophysical Union 2019 Fall Meeting, San Francisco, California. eLightning and Poster Presentation.
- **Hall, J.,** and Uriarte, M. Using estimates of vegetative damage and biomass to explain variation in Streamflow in Puerto Rico after Hurricanes Irma and Maria. Ecological Society of America Annual Meeting 2018, New Orleans, LA. Poster Presentation
- Ewers, B., Bretfeld, M., Millar, D., **Hall, J.**, Beverly, D., Hall, J., Ogden, F., & S. Mackay. Confronting a Process-based Model of Temperate Tree Transpiration with Data from Forests in Central Panama Exposed to Drought. American Geophysical Union 2016 Fall Meeting, San Francisco, California. Poster Presentation
- **Hall, J.**, Ewers, B., & D. Beverly, "Effect of aspect and forest age on tree water use in the Panama Canal Watershed". Ecological Society of America Annual Meeting 2016. Fort Lauderdale, Florida. Poster Presentation.
- **Hall, J.,** Beverly, D., Speckman, H. N., Zelikova, T. J., Ohara, N., & B. Ewers, Primary Drivers of dust deposition within a small subalpine watershed. American Geophysical Union 2015 Fall Meeting, San Francisco, California. Poster Presentation.

PROFESSIONAL EXPERIENCE

2021-2022 *Consultant Project*. Characterization of Storm King Art Center Forest Composition, Health, and Carbon Storage. Storm King Arts Center, New Windsor, NY. Authored by: Hall, J., and Schmiege, S.

- Used a combination of field surveys, lidar, and remote sensing imagery to determine and report forest composition and structure within the Storm King Art Center.

2021 *NSF INTERN Research Intern*, NASA Jet Propulsion Laboratory, Pasadena, CA

- Examined the individual and combined effectiveness of synthetic aperture radar (SAR) satellite imagery and LiDAR point clouds to characterize Puerto Rican forest damage and subsequent recovery from Hurricane María in 2017.

2015-2016 *Field Technician*, Wyoming Center for Environmental Hydrology and Geophysics (WyCEHG). Botany Department, University of Wyoming.

- Managed a team of plant physiology and ecosystem hydrology technicians. Supervisors: Dr. Brent Ewers, Dr. Daniel Beverly, and Dr. Heather Speckman

TECHNICAL SKILLS AND EXPERIENCE

R Statistical Software, ArcGIS, Google Earth Engine, statistical and spatial modelling, optical remote sensing, Jupyter Notebook, Synthetic aperture radar analysis, LiDAR point cloud analysis, Python, Google Colab, Github version control

TEACHING AND MENTORING EXPERIENCE

2017-2019 *Teaching assistant*, Columbia University (Department of Ecology, Evolution and Environmental Biology) Courses: Introduction to Environmental Biology I (undergraduate); Conservation Biology (undergraduate), Conservation Biology (graduate)

VOLUNTEER AND ACADEMIC SERVICE

2023 Riverkeeper Sweep at Kaal Rock

- Participated in a trash clean-up day near Poughkeepsie, NY.

2021 Public Outreach Grant. E3B Urban Ecology Summer Program. Center for Science and Society, Columbia University

- *Established a summer urban field ecology program for high school students, in partnership with local majority-BIPOC schools and organizations.*

2020 *Outreach Outside of Columbia Working Group Volunteer, Department of Ecology, Evolution, and Environmental Biology, Columbia University.*

- *Participated in drafting a letter to our faculty on necessary department diversity and inclusion goals and requirement*

2017, 2019 *Section volunteer, Girls Science Day. Columbia University*