



Natan Holtzman

Ph.D. Student in Earth System Science, admitted Autumn 2018

Bio

BIO

Natan Holtzman is a fourth-year PhD student in the Earth System Science department working with Prof. Alexandra Konings. He uses remote sensing and modeling to study how water moves between the atmosphere, plants, and soil. Natan graduated from the University of North Carolina at Chapel Hill in 2016 with a B.S. with honors in Geological Sciences and minors in Mathematics and Biology.

LINKS

- My professional website: <https://natan-holtzman.github.io/>

Publications

PUBLICATIONS

- **Bias Correction of Hydrologic Projections Strongly Impacts Inferred Climate Vulnerabilities in Institutionally Complex Water Systems** *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*
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- **Detecting Forest Response to Droughts with Global Observations of Vegetation Water Content.** *Global change biology*
Konings, A. G., Saatchi, S. S., Frankenberg, C., Keller, M., Leshyk, V., Anderegg, W. R., Humphrey, V., Matheny, A. M., Trugman, A., Sack, L., Agee, E., Barnes, M. L., Binks, et al
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- **Interannual Variations of Vegetation Optical Depth are Due to Both Water Stress and Biomass Changes** *GEOPHYSICAL RESEARCH LETTERS*
Konings, A. G., Holtzman, N. M., Rao, K., Xu, L., Saatchi, S. S.
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- **Global ecosystem-scale plant hydraulic traits retrieved using model-data fusion** *HYDROLOGY AND EARTH SYSTEM SCIENCES*
Liu, Y., Holtzman, N. M., Konings, A. G.
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- **L-band vegetation optical depth as an indicator of plant water potential in a temperate deciduous forest stand** *BIOGEOSCIENCES*
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- **SMAP Detects Soil Moisture Under Temperate Forest Canopies** *GEOPHYSICAL RESEARCH LETTERS*
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- **SMAP VALIDATION EXPERIMENT 2019-2021 (SMAPVEX19-21): DETECTION OF SOIL MOISTURE UNDER FOREST CANOPY**

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