

James Doss-Gollin

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RESEARCH INTERESTS

- Climate risk management and adaptation
- Planning, optimization, and policy search under deep uncertainty
- Dynamics and spatiotemporal clustering of hydroclimate extremes
- Probabilistic modeling and uncertainty quantification

PROFESSIONAL APPOINTMENTS

<i>Rice University</i>	Assistant Professor , Department of Civil and Environmental Engineering	2021–
<i>Penn State</i>	Postdoctoral Scholar , Earth and Environmental Systems Institute	2020

EDUCATION

<i>Columbia</i>	Ph.D. , Earth and Environmental Engineering	2020
	M.S. , Earth and Environmental Engineering	2016
<i>Yale University</i>	B.S. cum laude , Mechanical Engineering	2015

HONORS, FELLOWSHIPS, AND AWARDS

<i>Graduate Study</i>	Nickolas and Liliana Themelis Fellowship , <i>Fu Foundation School of Engineering and Applied Science</i> , Columbia University.	2018
	Graduate Research Fellowship , <i>Climate and Large-Scale Atmospheric Dynamics</i> , National Science Foundation.	2017
	Presidential Distinguished Fellowship , <i>Fu Foundation School of Engineering and Applied Science</i> , Columbia University.	2015
<i>Undergraduate Study</i>	Distinction in Major , <i>Department of Mechanical Engineering and Materials Science</i> , Yale University.	2015
	Legacy Award , New Haven Promise	2015
	Larry Coben '79 Fellowship , Yale University	2014
	Vance-Carter Travel Award , Yale University	2013
	Thomas C. Barry Travel Award , Yale University	2012

MOST CLOSELY RELATED PUBLICATIONS

- Doss-Gollin, James**, Farnham, David J., Steinschneider, Scott, and Lall, Upmanu. “Robust Adaptation to Multiscale Climate Variability”. *Earth’s Future* 7.7. DOI: 10.1029/2019EF001154 2019
- Farnham, David J, **Doss-Gollin, James**, and Lall, Upmanu. “Regional Extreme Precipitation Events: Robust Inference from Credibly Simulated GCM Variables”. *Water Resources Research* 54.6. DOI: 10.1002/2017wr021318 2018
- Doss-Gollin, James**, Muñoz, Ángel G, Mason, Simon J, and Pastén, Max. “Heavy Rainfall in Paraguay during the 2015-2016 Austral Summer: Causes and Sub-Seasonal-to-Seasonal Predictive Skill”. *Journal of Climate* 31.17. DOI: 10.1175/JCLI-D-17-0805.1 2018
- Doss-Gollin, James**, Farnham, David J., Ho, Michelle, and Lall, Upmanu. “Adaptation over Fatalism: Leveraging High-Impact Climate Disasters to Boost Societal Resilience”. *Journal of Water Resources Planning and Management* 146.4. DOI: 10.1061/(ASCE)WR.1943-5452.0001190 2020
- Rözer, Viktor, Kreibich, Heidi, Schröter, Kai, Müller, Meike, Sairam, Nivedita, **Doss-Gollin, James**, Lall, Upmanu, and Merz, Bruno. “Probabilistic Models Significantly Reduce Uncertainty in Hurricane Harvey Pluvial Flood Loss Estimates”. *Earth’s Future* 7.4. DOI: 10.1029/2018EF001074 2019

OTHER PUBLICATIONS

- Doss-Gollin, James**, de Souza Filho, Francisco de Assis, and da Silva, Francisco Osny Enéas. “Analytic Modeling of Rainwater Harvesting in the Brazilian Semiarid Northeast”. *Journal of the American Water Resources Association* 52.1. DOI: 10.1111/1752-1688.12376 2015