James Doss-Gollin

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RESEARCH INTERESTS

- Climate risk management and adaptation
- Dynamic planning under uncertainty
- Hydroclimate extremes and dynamics
- Risk analysis and uncertainty quantification

PROFESSIONAL APPOINTMENTS

Rice University	**Assistant Professor**, Department of Civil and Environmental Engineering	*2021–*
	Adjunct Professor, Department of Civil and Environmental Engineering	*2020*
Penn State	**Postdoctoral Scholar**, Earth and Environmental Systems Institute	*2020*

EDUCATION

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

HONORS, FELLOWSHIPS, AND AWARDS

Graduate Study	**Nickolas and Liliana Themelis Fellowship**, *Fu Foundation School of Engineering and Applied Science*, Columbia University.	*2018*
	Graduate Research Fellowship, *Climate and Large-Scale Atmospheric Dynamics*, National Science Foundation.	*2017*
	Presidential Distinguished Fellowship, *Fu Foundation School of Engineering and Applied Science*, Columbia University.	*2015*
Undergraduate Study	**Distinction in Major**, *Department of Mechanical Engineering and Materials Science*, 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*