

XIAOGANG HE

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Interests large-scale hydrology, hydroclimate extremes, water-food-energy-carbon nexus, climate attribution, complex adaptive human-earth systems, earth system model, integrated assessment model, energy expansion model, risk analysis, decision making under uncertainty, machine/deep learning

Professional Appointments

11/2020–present	Assistant Professor <i>Civil and Environmental Engineering, National University of Singapore</i>
06/2024–present	Deputy Director <i>Centre for Environmental Resilience, National University of Singapore</i>
04/2021–present	Affiliated Faculty <i>Centre for Nature-based Climate Solutions, National University of Singapore</i>
07/2022–06/2024	SERB-VAJRA Adjunct Faculty <i>Civil Engineering, Indian Institute of Technology Kanpur</i>
05/2019–10/2020	Postdoctoral Fellow <i>Water in the West, Woods Institute for the Environment, Stanford University</i>

Education

06/2016-03/2019	Ph.D.	Civil and Environmental Engineering <i>Advisors: Eric F. Wood and Justin Sheffield</i>	Princeton University
09/2017-03/2019	STEP Certificate	Woodrow Wilson School of Public and International Affairs <i>Advisor: Michael Oppenheimer</i>	Princeton University
06/2016-03/2019	Computational Certificate	Computational and Information Science	Princeton University
09/2014-05/2016	M.A.	Civil and Environmental Engineering	Princeton University
10/2011-09/2013	M.E.	Civil Engineering <i>Advisor: Taikan Oki</i>	The University of Tokyo
09/2008-07/2011	B.Sc (Dual)	School of Economics and Management	Tsinghua University
08/2007-07/2011	B.Eng (Major, with honors)	Hydraulic Engineering	Tsinghua University

Honors & Awards

2025	Kamide Distinguished Lecture Award , Hydrological Science Section, Asia Oceania Geosciences Society (AOGS)
2023	Outstanding Early Career Award , College of Design and Engineering, National University of Singapore (Inaugural winner)
2021, 2019	CYWATER Young Scientist Outstanding Paper Award , International Association of Chinese Youth in Water Sciences (CYWATER)
2021	SERB-VAJRA Faculty Award, Science and Engineering Research Board (SERB), Department of Science and Technology, Govt. of India (VAJRA: Visiting Advanced Joint Research)
2021	2020 Top 10% most downloaded Geophysical Research Letters paper in 2020, American Geophysical Union (AGU)
2020	Editors' Citation for Excellence in Refereeing for Geophysical Research Letters , American Geophysical Union (AGU)
2020	Top 20 most read Earth Science articles in Nature Communications in 2019 (He et al., 2019)
2018	School of Engineering and Applied Science Award for Excellence, School of Engineering and Applied Science (SEAS), Princeton University. "This award is given to SEAS advanced graduate students who have performed at the highest level as scholars and researchers."
2018-2019	Mary & Randall Hack '69 Award, Princeton Environmental Institute, Princeton University
2017-2019	Perkins Fellow in Science, Technology, and Environmental Policy (STEP), Princeton Environmental Institute, Princeton University