

Christina Karamperidou

USA

Christina Karamperidou (ckaramp@hawaii.edu | www.christinakaramperidou.com) is an Associate Professor of Atmospheric Sciences at the University of Hawai'i at Mānoa. She holds a **PhD** (2012) and **MPhil** (2011) from **Columbia University**, an **M.S.** (2007) in Environmental Protection & Sustainable Development and a **Diploma** (BS+MS; 2006) in Civil & Environmental Engineering from the **Aristotle University of Thessaloniki**, Greece.

Christina's research is centered on the dynamics, predictability, and impacts of **El Niño/Southern Oscillation (ENSO)**, **extreme events** in response to large-scale **climate variability and change**, **paleoclimate** modeling, and **machine learning applications** in environmental sciences. Her contributions focus on:

- Revealing the relationship between ENSO spatiotemporal diversity and projected changes in tropical Pacific mean climate and climate variability (e.g., Karamperidou et al. 2017; Wyman, Conroy, Karamperidou, 2020; Karamperidou et al. 2020; Karamperidou in Cai et al. 2021).
- Improving our understanding of ENSO diversity and its impacts in past, present, and future climates using observations, paleoclimate proxies, and a hierarchy of models -from low-order theoretical to high-resolution global and regional numerical models (e.g., Karamperidou et al. 2015; Takahashi, Karamperidou & Dewitte, 2018; Kiefer & Karamperidou, 2019; Pausata, Karamperidou et al. 2016, 2020; Zhao & Karamperidou, 2022; Karamperidou and DiNezio, 2022).
- Applying advanced statistical methods and machine learning techniques to a wide array of hydroclimate problems (e.g., Karamperidou et al. 2007, 2010), including ENSO predictability and impacts (e.g., Karamperidou et al. 2013, Karamperidou in Hou et al. 2018).

Christina has been awarded over 4.5 million USD in research grants, has co-authored 27 peer-reviewed journal articles and book chapters, has given 6 keynote and invited speeches in international conferences, and numerous regional invited seminars and conference presentations. She participates in a series of international collaborations with colleagues from S. America (Peru, Chile), N. America (US, Canada), Europe (Greece, Italy, Sweden, Germany, France), Asia (China, Thailand, S. Korea), and Australia.

APPOINTMENTS & PROFESSIONAL POSITIONS

Department of Atmospheric Sciences, University of	Associate Professor (2020-date) & Associate Chair
Hawai'i at Mānoa, USA	(2022-date); Director , Bachelors & Masters (BAM)
	Combined Pathway Program (2020-date); Assistant
	Professor (2016-2020); Assistant Researcher (2014-
	2016), Bootdootoval Booograhay (2012, 2014)

2016); Postdoctoral Researcher (2012-2014)

Department of Earth & Environmental Engineering, Adjunct Associate Research Scientist (2012-2016) Columbia University, USA

Paleoceanography & Paleoclimatology, AGU Associate Editor (2020-date)

HONORS & AWARDS

2023	Early Career Scientist Award	International Union of Geodesy & Geophysics (IUGG)
2020	Public Service Commendation Medal	US Dept of the Army; for commendable public service
2019-2020	Awarded early tenure and promotion	University of Hawai'i at Mānoa; T&P after 3 years in the
	to Associate Professor	rank of Assistant Professor.
2012	PhD title awarded with distinction	Columbia University; for a dissertation ranking in quality
		in the top 10% defended by Columbia Univ. students
2009-2012	Earth & Space Science Fellow	National Aeronautics & Space Agency (NASA)
2009-2012	Fellow	Alexander S. Onassis Public Benefit Foundation
2010	Outstanding student paper award	American Geophysical Union, Atmospheric Sciences Sect.

