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 Hawai'i at Mānoa, USA	**Associate Professor** (2020-date) & **Associate Chair** (2022-date); **Director**, Bachelors & Masters (BAM) Combined Pathway Program (2020-date); **Assistant Professor** (2016-2020); **Assistant Researcher** (2014-2016); **Postdoctoral Researcher** (2012-2014)
Department of Earth & Environmental Engineering, Columbia University, USA	**Adjunct Associate Research Scientist** (2012-2016)
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 to Associate Professor**	University of Hawai'i at Mānoa; T&P after 3 years in the 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.