

Biography

Dr. Mochamad Furqon Azis Ismail is a senior researcher at National Research and Innovation Agency of Indonesia (BRIN), specializing in ocean circulation, ocean–atmosphere interactions, and climate variability in the Indonesian Seas and adjacent Indo-Pacific region. Over more than two decades of research experience, he has developed a distinguished career spanning national and international research institutions, with expertise in observational oceanography, satellite remote sensing, ocean dynamics, and climate-related marine processes. His international research experience includes appointments as Visiting Scientist at Lamont-Doherty Earth Observatory (USA), the Australian National University (Australia), and Laboratoire d'Etudes en Géophysique et Océanographie Spatiales (France), as well as a Postdoctoral Fellowship at GEOMAR Helmholtz Centre for Ocean Research Kiel (Germany) under the prestigious Alexander von Humboldt Foundation, Germany.

Dr. Ismail has made significant contributions to understanding the Indonesian Throughflow, ocean mixing processes, mesoscale eddies, marine heatwaves, water-mass variability, and regional climate-ocean interactions. He has authored and co-authored more than twenty peer-reviewed international publications in leading journals, including *Nature Communications*, *Journal of Geophysical Research: Oceans*, *Journal of Physical Oceanography*, *Progress in Oceanography*, and *Ocean Science*. His research combines in situ observations, ocean models, and satellite observations to address key scientific questions relevant to regional and global ocean circulation.

In addition to his scientific achievements, Dr. Ismail has demonstrated leadership in ocean research and science management. Since February 2026, he has served as Head of the Research Centre for Oceanology - BRIN, where he leads strategic research initiatives and international collaborations aimed at advancing ocean science and supporting sustainable marine resource management in Indonesia.