

Biographical Sketch  
**Kandaga Pujiana, Ph.D.**

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**(a) Professional Preparation**

Bandung Institute of Technology, Bandung, Indonesia; Geophysics & Meteorology; B.S., 2001  
Bandung Institute of Technology, Bandung, Indonesia; Oceanography & Atmospheric Sciences; M.S., 2005  
Columbia University, New York, NY, USA; Earth & Environmental Sciences; M.A., 2007  
Columbia University, New York, NY, USA; Earth & Environmental Sciences; M.Phil., 2011  
Columbia University, New York, NY, USA; Earth & Environmental Sciences; Ph.D., 2012  
Lamont-Doherty Earth Observatory, Palisades, NY, USA; Ocean & Climate Physics; Postdoctoral Scientist, 2012–2013  
Oregon State University, Corvallis, OR, USA; College of Earth, Ocean and Atmospheric Sciences; Research Associate (Postdoc), 2013–2016  
NOAA Pacific Marine and Environmental Laboratory, Seattle, WA, USA; Global Tropical Moored Buoy Array Division; Postdoctoral Research Associate, 2017–2020

**(b) Appointments**

2021–present: **Assistant Scientist**, Cooperative Institute for Marine and Atmospheric Studies, Miami, FL  
2017–present: **Adjunct Associate Research Scientist**, Lamont-Doherty Earth Observatory, Palisades, NY  
2017–2020: **NRC Postdoctoral Research Associate**, NOAA Pacific Marine and Environmental Laboratory, Seattle, WA  
2013–2016: **Research Associate (Postdoc)**, Oregon State University, Corvallis, OR  
2012–2013: **Postdoctoral Research Scientist**, Lamont-Doherty Earth Observatory, Palisades, NY

**(c) Products**

1. Meng, Z., Zhou, L., Murtugudde, R., Yang, Q., **Pujiana, K.**, and Xi, J. Tropical oceanic intraseasonal variabilities associated with central Indian Ocean mode. *Climate Dynamics*. 2021. doi:10.1007/s00382-021-05951-1.
2. **Pujiana, K.**, and McPhaden, M. J. Biweekly Mixed Rossby-gravity waves in the equatorial Indian Ocean. *Journal of Geophysical Research-Oceans*, 126, e2020JC016840. 2021. doi:10.1029/2020JC016840.
3. **Pujiana, K.**, and McPhaden, M. J. Intraseasonal Kelvin waves in the equatorial Indian Ocean and their propagation into the Indonesian Seas. *Journal of Geophysical Research-Oceans*, 125(5), e2019JC015839. 2020. doi:10.1029/2019JC015839.
4. **Pujiana, K.**, McPhaden, M. J., Gordon, A. L., and Napitu, A. M. Unprecedented response of Indonesian throughflow to anomalous Indo-Pacific climatic forcing in 2016. *Journal of Geophysical Research-Oceans*, 124(6), 3737–3754. 2019. doi:10.1029/2018JC014574.
5. Napitu, A. M., **Pujiana, K.**, and Gordon, A. L. The Madden-Julian Oscillation’s impact on the Makassar Strait surface layer transport. *Journal of Geophysical Research-Oceans*, 124(6), 3538–3550. 2019. doi:10.1029/2018JC014729.

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6. Gordon, A. L., Napitu, A. M., Huber, B. A., Gruenburg, L. K., **Pujiana, K.**, Agustiadi, T., Kuswardani, A., Mbay, N., and Setiawan, A. Makassar Strait throughflow seasonal and interannual variability. *Journal of Geophysical Research-Oceans*, 124(6), 3724-3736. 2019. doi:10.1029/2018JC014502.
  7. Sprintall, J., Gordon, A., Wijffels, S., Feng, M., Hu, S., Koch-Larrouy, A., Phillips, H., Nugroho, D., Napitu, A., **Pujiana, K.** et al. Detecting change in the Indonesian seas. *Frontiers in Marine Science*, 6:257. 2019. doi:10.3389/fmars.2019.00257.
  8. **Pujiana, K.**, and McPhaden, M. J. Ocean surface layer response to convectively-coupled Kelvin waves in the eastern equatorial Indian Ocean. *Journal of Geophysical Research-Oceans*, 123(8), 5727–5741. 2018. doi:10.1029/2018JC013858.
  9. **Pujiana, K.**, Moum, J. N., and Smyth, W. D. The role of subsurface turbulence in redistributing upper ocean heat, freshwater and momentum in response to the Madden-Julian Oscillation in the equatorial Indian Ocean. *Journal of Physical Oceanography*, 48(1), 197–220. 2018. doi:10.1175/JPO-D-17-0146.1.
  10. Moum, J. N., **Pujiana, K.**, Lien, R. C., and Smyth, W. D. Oceanic feedback to pulses of the Madden-Julian oscillation in the equatorial Indian Ocean. *Nature Communications*, 7, 13203 EP. 2016. doi:10.1038/ncomms13203.
  11. Warner, S., Becherer, J., **Pujiana, K.**, Shroyer, E., Ravichandran, M., and Moum, J. N. A year long subsurface mixing record. *Oceanography*, 29(2):158–169. 2016. doi:10.5670/oceanog.2016.48.
  12. **Pujiana, K.**, Moum, J. N., Smyth, W. D., and Warner, S. J. Distinguishing ichthyogenic turbulence from geophysical turbulence. *Journal of Geophysical Research-Oceans*, 120, 3792-3804. 2015. doi:10.1002/2014JC010659.
  13. Napitu, A. M., Gordon, A. L., and **Pujiana, K.** Intraseasonal sea surface temperature variability across the Indonesian seas. *Journal of Climate*, 28, 8710-8727. 2015. doi:10.1175/JCLI-D-14-00758.1.
  14. Sprintall, J., Gordon, A. L., Koch-Larrouy, A., Lee, T., Potemra, J. T., **Pujiana, K.**, and Wijffels, S.E. The Indonesian seas and their role in the coupled ocean-climate system. *Nature Geoscience*, 7, 487-492. 2014. doi:10.1175/JCLI-D-14-00758.1.
  15. **Pujiana, K.**, Gordon, A. L., and Sprintall, J. Intraseasonal Kelvin waves in Makassar Strait. *Journal of Geophysical Research-Oceans*, 118, 2023-2034. 2013. doi:10.1002/jgrc.20069.
  16. **Pujiana, K.** Makassar Strait intraseasonal variability. *Columbia University Academic Commons*, 2012. <http://hdl.handle.net/10022/AC:P:14434>.
  17. **Pujiana, K.**, Gordon, A. L., Metzger, E. J., and Field, A. The Makassar Strait pycnocline at 20-40 days. *Dynamics of Atmospheres and Oceans*, 53-54, 17-35, 2012. doi:10.1016/j.dynatmoce.2012.01.001.
  18. **Pujiana, K.**, Gordon, A. L., Sprintall, J., and Susanto, R.D. Intraseasonal variability in the Makassar Strait thermocline. *Journal of Marine Research*, 67, 757-777. 2009. doi:10.1357/002224009792006115.

**(d) Awards**

1. National Research Council Research Associateship; the National Academies of Sciences, Engineering and Medicine; 2016.
2. Outstanding student paper award; geophysical fluid dynamics summer school; Kyoto University Active Geosphere; 2007.
3. Faculty Fellowship; Columbia University; 2005.

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**(e) Synergistic Activities**

1. Organizing committee for a Climate and Ocean - Variability, Predictability, and Change (CLIVAR) capacity building workshop, Bandung-Indonesia, 2014.
2. Associate of Committee on Space Research (COSPAR), 2014 - present.
3. Guest Editor of Marine Research Indonesia, 2012 - 2014.

**(f) Collaborators**

Arnold Gordon (Columbia University); Denis Volkov (CIMAS); Asmi Napitu (Ministry of Marine Affairs and Fisheries-Indonesia); E. Joseph Metzger (Naval Research Laboratory); Gustavo Goni, Shenfu Dong, and Sangki-Lee (NOAA AOML); Michael McPhaden (NOAA PMEL); James Moum and William Smyth (Oregon State University); Janet Sprintall (Scripps Institution of Oceanography); Lei Zhou (Shanghai Jiao Tong University); Raghu Murtugudde (University of Maryland)