

# Hrishikesh Arvind Chandanpurkar

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## Education

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2016 Ph.D. Earth System Science, University of California, Irvine, USA  
2009 M.Sc. Environmental Sciences, University of Pune, India  
2007 B.Sc. Geology, University of Pune, India

## Academic Experience

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2021– Research Scientist, Global Institute for Water Security  
University of Saskatchewan, Saskatoon, Canada  
2021– Fellow, Centre for Earth and Environment  
FLAME University, Pune, India  
2018–2021 Postdoctoral Researcher, NASA Jet Propulsion Laboratory  
California Institute of Technology, Pasadena, USA  
2016–2018 Research Associate, Colorado Center for Astrodynamics Research  
Department of Aerospace Engineering Sciences  
University of Colorado, Boulder, USA  
2006–2009 Research Intern  
Advanced Center for Water Resources Development and Management, Pune, India

## Awards and Fellowships

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2016 Travel Grant for Summer School in Modeling Arctic Climate System  
International Arctic Research Center, University of Alaska, Fairbanks, USA  
2015–2016 Advanced Study Program Graduate Visitor Fellowship  
National Center for Atmospheric Research, Boulder, USA  
2008 World Wildlife Fund (India) grant  
2007 Dr. Anil Lalwani Award in Hydrogeology  
Fergusson College, University of Pune, India

## Professional Service

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2021, 2019 Reviewer, NASA Review Panel on ROSES solicitation  
2019, 2020 Science Chair, Scientific inputs to several  
Earth Venture Missions (EVM) concepts at JPL Foundry  
2018–2019 Chair, weekly group meetings for Terrestrial Hydrology group at JPL  
2018 Member, Editorial Advisory Board for the book:  
Environmental Impacts of Tourism in Developing Nations, IGI Global  
2017 Judge, Outstanding Student Presentation Award  
American Geophysical Union Fall Meeting

## Publications

- Chandanpurkar, H. A.**, Lee, T., Wang X., Hong Z., Fournier, S., Fenty, I., Fukumori, I., Menemenlis, D., Piecuch, C. G., Reager, J. T., Wang, O., & Worden, J. Influence of Nonseasonal River Discharge on Sea Surface Salinity and Height. (*accepted*). *Journal of Advances in Modeling Earth Systems*
- Elder, C. D., Thompson, D. R., Thorpe, A. K., **Chandanpurkar, H. A.**, Hanke, P. J., Hasson, N., James, S. R., Minsley, B. J., Pastick, N. J., Olefeldt, D., Walter Anthony, K. M., & Miller, C. E. (2021). Characterizing Methane Emission Hotspots From Thawing Permafrost. *Global Biogeochemical Cycles*, 35(12). <https://doi.org/10.1029/2020GB006922>
- Harvey, T. C., Hamlington, B. D., Frederikse, T., Nerem, R. S., Piecuch, C. G., Hammond, W. C., Blewitt, G., Thompson, P. R., Bekaert, D. P. S., Landerer, F. W., Reager, J. T., Kopp, R. E., **Chandanpurkar, H. A.**, Fenty, I., Trossman, D., Walker, J. S., & Boening, C. (2021). Ocean mass, steric dynamic effects, and vertical land motion largely explain US coast relative sea level rise. *Communications Earth & Environment*, 2(1), 233. <https://doi.org/10.1038/s43247-021-00300-w>
- Cheon, S.-H., Hamlington, B. D., Reager, J. T., & **Chandanpurkar, H. A.** (2021). Identifying ENSO-related interannual and decadal variability on terrestrial water storage. *Scientific Reports*, 11(1), 13595. <https://doi.org/10.1038/s41598-021-92729-4>
- Pascolini-Campbell, M., Reager, J. T., **Chandanpurkar, H. A.**, & Rodell, M. (2021). A 10 per cent increase in global land evapotranspiration from 2003 to 2019. *Nature*, 593(7860), 543–547. <https://doi.org/10.1038/s41586-021-03503-5>
- Chandanpurkar, H. A.**, Reager, J. T., Famiglietti, J. S., Nerem, R. S., Chambers, D. P., Lo, M. H., Hamlington, B. D., & Syed, T. H. (2021). The Seasonality of Global Land and Ocean Mass and the Changing Water Cycle. *Geophysical Research Letters*, 48(7). <https://doi.org/10.1029/2020GL091248>
- Hamlington, B. D., Gardner, A. S., Ivins, E., Lenaerts, J. T. M., Reager, J. T., Trossman, D. S., Zaron, E. D., Adhikari, S., Arendt, A., Aschwanden, A., Beckley, B. D., Bekaert, D. P. S., Blewitt, G., Caron, L., Chambers, D. P., **Chandanpurkar, H. A.**, Christianson, K., Csatho, B., Cullather, R. I., ... Willis, M. J. (2020). Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future. *Reviews of Geophysics*, 58(3). <https://doi.org/10.1029/2019RG000672>
- Hamlington, B. D., Piecuch, C. G., Reager, J. T., **Chandanpurkar, H. A.**, Frederikse, T., Nerem, R. S., Fasullo, J. T., & Cheon, S. H. (2020). Origin of interannual variability in global mean sea level. *Proceedings of the National Academy of Sciences of the United States of America*, 117(25), 13983–13990. <https://doi.org/10.1073/pnas.1922190117>
- Hamlington, B. D., Reager, J. T., **Chandanpurkar, H. A.**, & Kim, K. Y. (2019). Amplitude Modulation of Seasonal Variability in Terrestrial Water Storage. *Geophysical Research Letters*, 46(8), 4404–4412. <https://doi.org/10.1029/2019GL082272>
- Chandanpurkar, H. A.**, Fasullo, J. T., Reager, J. T., Nerem, R. S., & Famiglietti, J. S. (2019). Asymmetric response of land storage to ENSO phase and duration. *Water (Switzerland)*, 11(11), 2249. <https://doi.org/10.3390/w11112249>
- Purdy, A. J., David, C. H., Sikder, M. S., Reager, J. T., **Chandanpurkar, H. A.**, Jones, N. L., & Matin, M. A. (2019). An Open-Source Tool to Facilitate the Processing of GRACE Observations and GLDAS Outputs: An Evaluation in Bangladesh. *Frontiers in Environmental Science*, 7. <https://doi.org/10.3389/fenvs.2019.00155>
- Chandanpurkar, H. A.**, Reager, J. T., Famiglietti, J. S., & Syed, T. H. (2017). Satellite- and reanalysis-based mass balance estimates of global continental discharge (1993–2015). *Journal of Climate*, 30(21), 8481–8495. <https://doi.org/10.1175/JCLI-D-16-0708.1>