

DEPARTMENT OF EARTH SCIENCES UNIVERSITY OF OXFORD

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Home » People » Academic Staff » Shamita Das Home Prof Shamita Das Undergraduate Admissions Professor of Earth Sciences Graduate Admissions **Research Theme** Tectonics, volcanoes and hazards People **Research Area** Seismology Research **Research Profile** Undergraduate Course I am a seismologist and received my doctorate at MIT in 1976. My research in earthquake studies has been conducted in several broad areas of observational and Graduate Course theoretical seismology over the last three decades. The major goal of the work is to understand the physics of the earthquake preparation and faulting process, and to predict Alumni expected motion at sites of engineering interest (the built environment) due to large earthquakes. The long-term goal is to prepare the physical basis for developing the capability to predict earthquakes, in future, if possible. Current research is focussed on the Development scaling of small to large earthquakes, study of very large submarine earthquake which cannot be studied by any other means such as GPS or SAR, and study of deep Links earthquakes and shapes of deep seismic zones along with its implications for mantle dynamics. News and Events Recently, I have been working on great earthquakes in Sumatra, Antarctica, and Indonesia. I have served on the UK Government's Natural Hazards Working Group, set up by Sir David King, Chief Scientific Advisor to the UK Government. I am a Fellow of the About Us American Geophysical Union. Intranet Selected Publications (Complete Publications) (CV) Das, S, (2007) 'Geophysics. The need to study speed.', Science. pp. 905-906 doi: 10.1126/science.1142143 Robinson, DP, Das, S, Watts, AB, (2006) 'Earthquake rupture stalled by a subducting fracture zone.', Science. pp. 1203-1205 doi: 10.1126/science.1125771 • Ammon, CJ, Ji, C, Thio, HK, Robinson, D, Ni, SD, Hjorleifsdottir, V, Kanamori, H, Lay, T, Das, S, Helmberger, D, Ichinose, G, Polet, J, Wald, D, (2005) 'Rupture process of the 2004 Sumatra-Andaman earthquake', SCIENCE. pp. 1133-1139 doi: 10.1126/science.1112260 Das, S, (2004) 'Seismicity gaps and the shape of the seismic zone in the Banda Sea region from relocated hypocenters', JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH. pp. 1-18 doi: 10.1029/2004JB003192 Das, S, (2004) 'Dynamic fracture mechanics in study of the earthquake rupturing process: theory and observation (vol 51, pg 11, 2003)', JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS. pp. 2185-2186 doi: 10.1016/j.jmps.2004.06.003 Das, S, Henry, C, (2003) 'Spatial relation between main earthquake slip and its aftershock distribution', REVIEWS OF GEOPHYSICS. pp. doi: 10.1029/2003RG000119

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