

Curriculum vitae of Eisuke FUJITA

Date of birth: 21 October 1967

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Degrees:

- November 1998: Doctor of Science, Geophysics (Univ. of Tokyo)

Work experience:

- 1993 to 2000: Researcher, Earthquake Prediction Research Center, NIED
- 2001 to 2002: Senior Researcher, Solid Earth Research Group, NIED
- 2003 to 2004: Research Planning Team Leader, Planning Division, NIED
- 2005 : Senior Researcher, Solid Earth Research Group, NIED
- 2006 to 2010: Deputy Director, Volcano Research Department, NIED
- 2011 to 2014: Senior Researcher, Earthquake and Volcano Research Unit, NIED
- 2015 : Principal Senior Researcher, Earthquake and Volcano Research Unit, NIED
- 2016 to present: Principal Senior Researcher, Volcanic Disaster Resilience Division, NIED
- Project Director, Volcanic Disaster Resilience Division, NIED
- Deputy Director-General, Center for Integrated Volcano Research, NIED

Current and recent research interests:

- modeling of volcanic earthquakes, volcanic tremor and LP events;
- modeling of volcanic crustal deformation;
- numerical simulation for lava-flow, eruptive processes based on multi-phase physics;
- monitoring and development of volcanic observation network;
- building volcanic hazard mitigation strategy

Selected Papers

- Fujita, E. and Nagai, M. 2016, LavaSIM: its physical basis and applicability, in Detecting, Modelling and Responding to Effusive Eruptions. Geological Society, London, Special Publications, Harris, A. J. L., De Groeve, T., Garel, F.&Carn, S. A. (eds), 426.
- Fujita, E., Kozono, T., Toda, N. Kikuchi, A. and Ida, Y. 2014, Quasi-static stress change around Mount Fuji region due to Tohoku mega-thrust earthquake, J. of Disast. Res., 9, 365-372.
- Garcia-Aristizabal, A., Selva, J. and Fujita, E. 2013, Integration of stochastic models for long-term eruption forecasting into a Bayesian event tree scheme: A basis method to estimate the probability of volcanic unrest, Bull. Volcanol., 75, 2, 1-13.
- Fujita, E., Kozono T., Ueda, H., Kohno, Y., Yoshioka, S. Toda, N., Kikuchi A., and Ida, Y., 2013, Stress field change around the Mount Fuji volcano magma system caused by the Tohoku megathrust earthquake, Japan, Bull. Volcanol. 75, 1, 1-14.
- Fujita, E., Araki, K. and Nagano, K., 2011, Volcanic tremor induced by gas-liquid two-phase flow: Implications of density wave oscillation, J. Geophys. Res. 116, 10.1029/2010JB008068.
- Proietti, C., Coltelli, M., Marsella, M., and Fujita, E., 2009, A quantitative approach for evaluating lava flow simulation reliability: LavaSIM code applied to the 2001 Etna eruption, Geochemistry, Geophysics, Geosystems, 10, Q09003.
- Fujita, E., Hidaka, M., Goto, A., and Umino, S., 2009, Simulations of measure to control lava flows, Bull. Volcanol., 71, 401-408.
- Fujita, E., 2008, Banded tremor at Miyakejima volcano, Japan: Implication for two-phase flow instability, J. Geophys. Res., 113, 10.1029/2006JB004829.