Takeshi Tsuji

JAPAN

Education

PhD in earth science, Dept. Earth and Planetary Science, the University of Tokyo, Japan, 2007
MSc in earth science, Dept. Earth and Planetary Science, the University of Tokyo, Japan, 2004
BS in engineering, Resources and Environmental Engineering, Waseda University, Japan, 2002

Research positions held

Professor, Department of Earth Resources Engineering, Kyushu University, Japan, 2017 -
Department Head and Professor, Department of Cooperative Program for Resources Engineering, Kyushu University, Japan, 2018 -
Division Head (Lead Principal Investigator), International Institute for Carbon-Neutral Energy Research (I^2CNER), Kyushu University, Japan, 2013 -
Associate Professor, International Institute for Carbon-Neutral Energy Research (I^2CNER), Kyushu University, Japan, 2012 - 2017
Assistant Professor, Graduate School of Engineering, Kyoto University, Japan, 2007 - 2012
Post-doctoral Researcher, Japan Agency for Marine-Earth Science and Technology, 2007

Selected Awards and Honors

IUGG Early Career Scientist Award (ECSA) in seismology, 2019
Island Arc Award, Geological Society of Japan (GSJ), 2018
The Young Scientists' Prize, The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology (MEXT), 2016
Highly Cited Research in Tectonophysics (Elsevier), 2016
Early Career Researcher Award, Seismological Society of Japan (SSJ), 2015
Yoshiaki Ozawa Award, Geological Society of Japan (GSJ), 2015
Incentive Award, Society of Exploration Geophysicists of Japan (SEGJ), 2005

Publications and Presentations

>110 peer-reviewed articles in scientific journals
>300 conference presentations
>60 invited talks at scientific conferences and universities

His researches include a wide range of topics, such as geophysics, seismology, hydrology, geology and geodesy. He estimated high-resolution seismic velocity from which he estimated pore pressure around the plate boundary faults. To monitor the seismogenic faults, he has mapped spatio-temporal variations of seismic velocity during the interplate and intraplate earthquakes by using ambient seismic noise. He further developed continuous monitoring system and deployed the system in geothermal and CO_2 storage fields. Besides geophysical works, he is interested in digital rock physics, a field rapidly growing in conjunction with quantitative interpretation of both geophysical and hydraulic data. He stayed in Stanford Univ. for ~1 year to study rock physics. Because of his wide range of research topics, he gave invited talks in several communities including mathematical society, environmental science, and space exploration.

He joins several international research projects and collaborations. In Integrated Ocean Drilling Program (IODP Expedition 327 in 2010), he served as Co-Chief scientist. He also works in several governmental and international committees. Presently, he is supervising 1 post-doc researcher, 5 PhD students, 6 MSc students and 2 undergraduate students.