

Qiang Qiu

Phd student

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Education

- 2011---now Earth Observatory of Singapore, Nanyang Technological University, Singapore
Major: Earth Science
- 2007---2010 College of Mechanics and Aerospace, Hunan University, Changsha, China
Major: Fluid Mechanics
Qualification Obtained: Master's degree
- 2001---2005 College of Mechanics and Aerospace, Hunan University, Changsha, China
Major: Engineering Mechanics
Qualification Obtained: Bachelor's degree
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Employment History

- 7/2009—8/2011 I worked as a Research Associate in Earth Observatory of Singapore in NTU
- 3/2008—3/2009 I worked as a Project Officer in Protective Technology Research Centre in NTU
- 7/2005—7/2007 I worked as a CAE analyst in the center of technology of JIALING institute in Chongqing
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Computer Proficiency

- Engineering Software: AutoCAD, FLUENT, NASTRAN, PATRAN, HYPERMESH, ADAMS, CATIA
 - Development Tools: Digital Visual FORTRAN, C, Matlab, Python
 - Operation Systems: DOS, Windows, Linux/Unix
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Language Proficiency

- Chinese (speaking: native; writing: excellent)
 - English (speaking: fair; writing: good)
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Publications

Journal papers

- Li, L., Z. Huang, **Q. Qiu**, D. H. Natawidjaja, and K. Sieh, Tsunami-induced coastal change: scenario studies for Painan, West Sumatra, Indonesia, *Earth, Planets and Space* 64: 799-816, 2012.
- Hill, E. M., J. C. Borrero, Z. Huang, **Q. Qiu**, P. Banerjee, D. H. Natawidjaja, P. Elosegui, H. M. Fritz, I. R. Pranantyo, L. Li, K. A. Macpherson, V. Skanavis, C. E. Synolakis, and K. Sieh, The 2010 Mw 7.8 Mentawai earthquake: Very shallow source of a rare tsunami earthquake determined from tsunami field survey and near-field GPS, *Journal of Geophysical Research*, VOL. 117, B06402, 21 pp., 2012.

Li, L., **Q. Qiu**, and Z. Huang, Numerical modelling of the morphological change in Lhok Nga, west Banda Aceh, during the 2004 Indian Ocean tsunami: understanding tsunami deposits using a forward modeling method, *Natural Hazards* 64(2): 1549-1574, 2012.

Conference proceedings and abstracts

- Q. Qiu**, E. M. Hill., L. J. Feng., A. M. Lubis., P. Banerjee., J. L. Davis., K. Sieh., “Long-term” post-seismic rate changes detected by the Sumatran GPS Array, western Sumatra, using a Kalman filter, submitted to AGU, Abstr. 1493768, San Francisc, 2012
- Q. Qiu**, E. M. Hill., A. D. Switzer., Tsunami modeling of a prehistorical submarine landslide offshore of Brunei, attended to AOGS, Singapore, 2012.
- Feng, L., E. M. Hill, P. Banerjee, A. M. Lubis, **Q. Qiu**, K. Sieh, Very rapid afterslip following the shallow 2010 Mw 7.8 Mentawai tsunami earthquake, *Eos Trans. AGU*, Fall Meet. Suppl. Abstr. T23C-2405, 2011.
- McCaughey, J., A. M. Lubis, **Q. Qiu**, Z. Huang, E. M. Hill, D. Natawidjaja, and K. Sieh, User-driver science: earthquake and tsunami scenarios for the Mentawai Islands, western Sumatra, *Eos Trans. AGU*, Fall Meet. Suppl. Abstr. PA51A-1802, 2011.
- Hill, E. M., **Q. Qiu**, J. C. Borrero, Z. Huang, P. Banerjee, P. Elosegui, H. M. Fritz, K. A. Macpherson, L. Li, K. Sieh, Very shallow source of the October 2010 Mentawai tsunami earthquake from tsunami field data and high-rate GPS, *Eos Trans. AGU*, Fall Meet. Suppl. Abstr. G14A-06, 2011.
- Huang, Z., J. C. Borrero, **Q. Qiu**, E. M. Hill, L. Li, K. Sieh, A comparison between two inundation models for the 25 October 2010 Mentawai Islands tsunami, *Eos Trans. AGU*, Fall Meet. Suppl. Abstr. xx, 2011.
- Qiu, Q.**, L. Li, Z. Huang, K. Sieh, and M. R. Badal. Scenario studies of tsunami-induced inundation for Mauritius, South Africa. *6th Annual International Workshop & Expo on Sumatra Tsunami Disaster & Recovery 2011 in Conjunction with 4th South China Sea Tsunami Workshop Banda Aceh*, Indonesia, 2011.
- Hill EM, P Banerjee, P Elosegui, Z Huang, JC Borrero, **Q Qiu**, L Li, KA Macpherson, K Sieh, 'Detection and modelling of a rare tsunami earthquake using high-rate GPS data: SuGAR results for the 25 October 2010 Mentawai earthquake', Submitted to AOGS, Taipei, 2011.
- Borrero JC, HM Fritz, B Suwargardi, L Li, **Q Qiu**, R Pranantyo, V Skanavis, CE Synolakis, K Sieh, Z Huang, EM Hill, 'Field survey and numerical modelling of the 25 October 2010 Mentawai Island Tsunami in Indonesia', Submitted to IUGG, Melbourne, 2011.
- Qiu, Q.**, Z. Huang, K. Megawati, K. Sieh, and D. H. Natawidjaja, A scenario study of tsunami-induced inundation for Pariaman, West Sumatra, Indonesia, *5th Annual International Workshop & Expro on Sumatra Tsunami Disaster & Recovery 2010*, Banda Aceh, Indonesia, 2010
- Huang, Z., Y. Yao, S. Y. Sim, A. Deng, and **Q. Qiu**, Interactions of leading tsunami waves with mangrove forests: A laboratory study with numerical simulations, *The 3rd International Tsunami Field Symposium*, Sendai, Japan, 2010
- Huang, Z. H., **Qiu, Q.**, Sieh, K., Megawati, K., Natawidjaja, D. H., and Wang, X. M. Numerical simulations of tsunami inundation for the city of Painan, Indonesia-- Effects of coastal vegetations and man-made structures. *In the Proceedings of the 3rd South China Sea Tsunami Workshop, 3-5 November 2009*, Penang, Malaysia, 2009
- Megawati K, Huang Z, **Qiu Q**, Sieh K, Pan TC. Tsunami threat to Padang and Bengkulu, Sumatra, Indonesia: Part I. Source identification and hydrodynamic modelling. *Second Workshop on South China Sea Tsunami*, Shanghai, China, 1-3 December 2008.
- Huang Z, Megawati K, **Qiu Q**, Sieh K, Pan TC,. Tsunami threat to Padang and Bengkulu, Sumatra, Indonesia: Part II. Tsunami Hazard Mitigation by Mangrove Forests. *Second Workshop on South China Sea Tsunami*, Shanghai, China, 1-3 December 2008.