

Curriculum Vitae Sara Carena

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EDUCATION

2014 *Habilitation* in Geology, LMU Munich
2003 Ph.D. in geology, Princeton University, USA.
1995 Laurea in geology, State University of Milano, Italy.

PROFESSIONAL EXPERIENCE

2010 – present Senior scientist/lecturer in geology, LMU Munich, Germany.
2007 – 2009 Postdoctoral scholar in geology, LMU Munich, Germany.
2005 – 2006 Maternity leave.
2004 – 2005 Visiting researcher, Princeton University, USA.
2003 – 2004 Maternity leave.
1997 – 2003 Ph.D. candidate, Dept. of Geosciences, Princeton University, USA.
1996 – 1997 Research fellow, National Institute of Geophysics and Volcanology, Roma, Italy.
1995 – 1996 Consultant in hydrogeology, Polytechnic of Milano, Italy.

PUBLICATIONS

Ustaszewski, K., Wu, Y.-M., Suppe, J., Huang, H.-H., Huang, C.-H., **Carena, S.** (2012): Crust-mantle boundaries in the Taiwan–Luzon arc-continent collision system determined from layered Vp models and local earthquake tomography, *Tectonophysics*, 578, 31-94, doi 10.1016/j.tecto.2011.12.029.

Carena, S. (2011) - Subducting-plate topography and nucleation of great and giant earthquakes along the South America trench. *Seismol. Res. Lett.*, 82 (5) 629-637, doi:10.1785/gssrl.82.5.629.

Carena S., Moder C. (2009) – The strength of faults in the crust in the western USA. *Earth Planet. Sci. Lett.*, *in press*, doi: 10.1016/j.epsl.2009.08.021.

Suppe, J., Huang, M.-H., and **Carena, S.** (2009) - Mechanics of thrust belts and the weak-fault/strong-crust problem. *Trabajos de Geologia*, 29, 61-65.

Plesch, A., Shaw J.H., Benson C., Bryant W.A., **Carena S.**, Cooke M., Dolan J., Fuis G., Gath E., Grant L., Hauksson E., Jordan T., Kamerling M., Legg M., Lindvall S., Magistrale H., Nicholson C., Niemi N., Oskin M., Perry S., Planansky G., Rockwell T., Shearer P., Sorlien C., Süss M.P., Suppe J., Treiman J., and R. Yeats (2007) - Community Fault

Model (CFM) for Southern California. *Bull. Seismol. Soc. Am.*, 97, 1793-1820, doi: 10.1785/0120050211.

Carena S., Suppe J., Kao H. (2004) - Lack of Continuity of the San Andreas Fault in southern California: 3-D fault models and earthquake scenarios. *J. Geophys. Res.*, 109, B04313, doi:10.1029/2003JB002643.

Carena S., Suppe J., Kao H. (2002) - The active detachment of Taiwan illuminated by small earthquakes and its control of first-order topography. *Geology*, 30 (10), 935 - 938.

Carena S., Suppe J. (2002) - 3-D Imaging of Active Structures Using Earthquake Aftershocks: the Northridge Thrust, California. *J. Struct. Geol.*, 24, 887-904.

Carena S., Borgia A., Battaglia A., Pasquare' G., Ferraris M., Martelli L., De Nardo M. T. (2000) - Gravity Synclines. *J. Geophys. Res.*, 105, 21819-21833.