

Shan de Silva

Research Interests:

Continental arc magmatism, magmatic flare-ups, caldera mechanics and supereruptions, magma dynamics, volcano-plutonic connection

Recent Publications (OSU student authors* OSU Post doc#)

Tierney, C.R.*, Schmitt, A.K., Lovero, O.M., and de Silva, S.L., 2016. Voluminous plutonism during volcanic quiescence revealed by thermochemical modeling of zircon. *Geology*, accepted for publication.

Kern, J. M.*, de Silva, S. L., Schmitt, A. K., Kaiser, J. F*, Iriarte, A. R. *, & Economos, R. (2016). Geochronological imaging of an episodically constructed subvolcanic batholith: U–Pb in zircon chronochemistry of the Altiplano–Puna Volcanic Complex of the Central Andes. *Geosphere*, GES01258.1–24. <http://doi.org/10.1130/GES01258.1>

Grocke, S. B.*, Cottrell, E., de Silva, S., & Kelley, K. A. (2016). The role of crustal and eruptive processes versus source variations in controlling the oxidation state of iron in Central Andean magmas. *Earth and Planetary Science Letters*, 440(C), 92–104. <http://doi.org/10.1016/j.epsl.2016.01.026>

de Silva, S. L., Mucek, A. E*, Gregg, P. M.#, & Pratomo, I. (2015). Resurgent Toba—field, chronologic, and model constraints on time scales and mechanisms of resurgence at large calderas. *Frontiers in Earth Science*, 3. doi:10.3389/feart.2015.00025

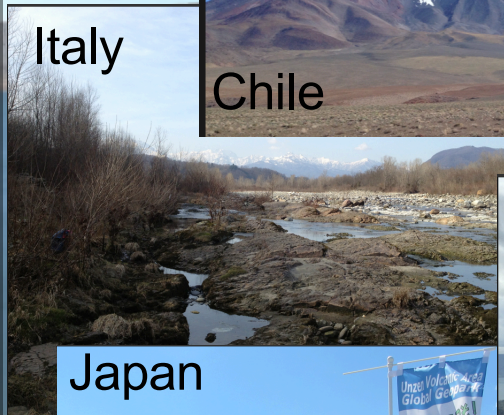
China



NZ



Italy



Chile



Sumatra



Japan

