



Nguyen Truong Tai Postdoctoral Fellow

Institute of Earth Sciences, Academia Sinica, Nangang, Taipei,
Taiwan

Research interest: igneous petrology, subduction zone
magmatism, magmatic ore deposits

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EDUCATION

2018 Ph.D. in Igneous Petrology and Geochemistry, Institute for Planetary Materials,
Okayama University at Misasa, Japan

Dissertation: Petrological, geochronological and geochemical study of late
Cenozoic volcanic rocks from the Chugoku district, southwest Japan:
Implications for the evolution of subduction zone and volcanic arc

Advisors: Prof. Eizo Nakamura, Assist. Prof. Hiroshi Kitagawa

2010 B.Sc. in Engineering Geology and Geotechnics, Hanoi University of Mining and
Geology

RESEARCH

- Investigating geochronology and geochemistry of late Cenozoic volcanism in Asia, implications for mantle dynamics and tectonic evolutions.
- Understanding fluid-related metamorphic and magmatic processes in subduction zone, followed by deciphering chemical differentiation of mantle, slab-mantle interaction and material recycling in the Earth.
- Understanding chemical and isotopic compositions of mantle and crust, following that understand mantle dynamics, crustal formation processes.

EMPLOYMENT

10/2018 to present Postdoctoral Fellow, Institute of Earth Sciences, Academia Sinica,
Nangang, Taipei, Taiwan

5/2018 – 9/2018 Lecturer, Hanoi University of Mining and Geology

4/2013 – 3/2018 Research assistant, Department of Analytical Planetary Chemistry,
Institute for Planetary Materials, Okayama University at Misasa

11/2011 – 3/2013 Teaching assistant, Department of Geology, Hanoi University of
Mining and Geology

AWARDS

- 5/2009 *Second prize at the 22nd student scientific conference by Hanoi University of Mining and Geology, 2009.*
- 5/2008 *Second prize at the 21st student scientific conference by Hanoi University of Mining and Geology, 2008.*

PUBLICATIONS

- (1) Pineda-Velasco, I., Kitagawa, H., Nguyen, T.T., Kobayashi, K. and Nakamura, E., 2018. Production of high-Sr andesite and dacite magmas by melting of subducting oceanic lithosphere at propagating slab tears. *Journal of Geophysical Research: Solid Earth*, doi: 10.1029/2017JB015066.
- (2) Pineda-Velasco, I., Nguyen, T.T., Kitagawa, H. and Nakamura, E., 2015. Comment on “Diverse magmatic effects of subducting a hot slab in SW Japan: Results from forward modeling” by J.-I. Kimura et al. *Geochemistry, Geophysics, Geosystems*, 16(9), pp.2848-2852.
- (3) Nguyen, T.T., Nguyen, H.V., Nguyen, Q. X., Tran, T.T. 2008. Features of geological hazards along the Red River banks in Phutho province, *HUMG*. 21(26), pp.133-137 (in Vietnamese).

CONFERENCE ABSTRACTS

- (1) Nguyen, T.T., Kitagawa, H., Pineda-Velasco, V., and Nakamura, E., *Petrological constraints on thermochemical interaction between asthenospheric mantle and subducting lithosphere*, Oral presentation at IPM Workshop 2017: Earthquake hazards and tectonics in southwest Japan, 2017, July 16-18.
- (2) Kitagawa, H., Nguyen, T.T., Pineda-Velasco, I., Kobayashi, K., and Nakamura, E., *Slab morphology and Cenozoic volcanism in East Asia*, IPM Workshop 2017: Earthquake hazards and tectonics in southwest Japan, 2017, July 16-18.
- (3) Pineda-Velasco, I., Kitagawa, H., Nguyen, T.T., Kobayashi, K., and Nakamura, E., *Geochemical evidences for the melting of subducting oceanic lithosphere at the slab tear zones*, IPM Workshop 2017: Earthquake hazards and tectonics in southwest Japan, 2017, July 16-18.
- (4) Nguyen, T.T., Pineda-Velasco, I., Kitagawa, H., Kobayashi, K., and Nakamura, E., *Geochronological constrains on the Evolution of Late Cenozoic volcanism in the Chugoku area, SW Japan*, Goldschmidt Conference 2016, June 26th - July 1st, Pacifico Yokohama, Yokohama, Japan.
- (5) Pineda-Velasco, I., Kitagawa, H., Nguyen, T.T., Kobayashi, K., and Nakamura, E., *Spatial and temporal variation of Adakitic Magmatism in SW Japan*, Goldschmidt Conference 2016, June 26th - July 1st, Pacifico Yokohama, Yokohama, Japan.
- (6) Nguyen, T.T., Pineda-Velasco, I., Kitagawa, H., and Nakamura, E., *Geochemical evolution of late Cenozoic volcanism in Chugoku district, Southwest Japan*. Poster session presented at: MISASA V: Misasa International Symposium 2015, Comprehensive Exploration of the Solar system. Sample return and analysis; 2015, March 6-8.