

Christopher A. Vidito
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Miami, FL 33156
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Education:

PhD, Geological Sciences

Graduated: 2014

Rutgers University, New Brunswick, NJ

Thesis: Petrologic Implications from the Chemistry of Olivine Phenocrysts

Master of Science, Geological Sciences

Graduated: 2012

Rutgers University, New Brunswick, NJ

Thesis: Lithological Structure of the Galápagos Plume

B.A., Geological Sciences, Magna Cum Laude

Graduated: 2009

Rutgers University, Newark, NJ

Raritan Valley Community College

North Branch, NJ

1/03 – 6/06, Major: Environmental Science

Employment:

Post-Doctoral Associate: The Department of Earth and Planetary Sciences, Florida International University, Miami, FL, 9/2016 – Present

- Providing technical assistance to outside and in-house SEM and EPMA users taking part in the TUES project
- Conducting research on the effectiveness of the use of laboratory instrumentation as a teaching tool for major and non-major students

Research Faculty/Unit Administrator/Specialist: The Department of Earth and Planetary Sciences, Rutgers, Piscataway, NJ, 9/2014 – 5/2016

- Managing the schedule in the electron microprobe lab
- Providing technical assistance to outside and in-house users
- Maintaining the Jeol JXA-8200
- Billing and Ordering Supplies

Instructor: The Department of Earth and Planetary Sciences, Rutgers, Piscataway, NJ, 12/2013-7/2014, 9/2014-12/2014*, 5/2015-7/2015

- Lecturing*
- Setting up online exercises
- Grading

Graduate Assistant: The Department of Earth and Planetary Sciences, Rutgers, Piscataway, NJ, 9/2012-12/2012; 9/2013-6/2014

- Managing the schedule in the electron microprobe lab
- Providing technical assistance to outside and in-house users
- Maintaining the Jeol JXA-8200
- Billing and Ordering Supplies

Teaching Assistant: The Department of Earth and Planetary Sciences, Rutgers, Piscataway, NJ, 9/2009-6/2012; 1/2013-6/2013

- Setting up and conducting lab exercises
- Grading

Intern: TRC Solutions, Millburn, NJ, 5/2008 - 8/2008

- Field work: water sampling and coring
- Clerical Work

Laboratory Experience:

- Petrographic Sample Preparation
- EPMA: WDS, EDS and Elemental Mapping
- SEM: EDS and Imaging
- LA-ICP-MS

Computer Experience and Expertise:

- Excel, MS Word, PowerPoint, Origin, Adobe Illustrator, Probe for EPMA, Casino, Igpet and Petrolog.

Publications:

Gavrilenko, M., Herzberg, C., Vidito, C. and Ozerov, A. (2016) A Calcium-in-Olivine Geothermometer and its Application to Subduction Zone Magmatism, *Journal of Petrology*, doi: 10.1093/petrology/egw062.

Herzberg, C., Vidito, C. and Starkey, N. (2016) Nickel–cobalt contents of olivine record origins of mantle peridotite and related rocks, *American Mineralogist*, doi: <http://dx.doi.org/10.2138/am-2016-5538>

Gavrilenko, M., Ozerov, A., Kyle, P.R., Carr, M.J., Nikulin, A., Vidito, C. and Danyushevski, L. (2016) Abrupt transition from fractional crystallization to magma mixing at Gorely volcano (Kamchatka) after caldera collapse, *Bul. of Vol.*, doi: 10.1007/s00445-016-1038-z.

Whalen, L., Gazel, E., Vidito, C., Puffer, J., Bizimis, M., Henika, W. and Caddick, M. J. (2015). Supercontinental inheritance and its influence on supercontinental breakup: The Central Atlantic Magmatic Province and the breakup of Pangea, *Geochem. Geophys. Geosys.*, doi: 10.1002/2015GC005885.

Trela, J., Vidito, C., Gazel, E., Herzberg, C., Class, C., Whalen, W., Jicha, B., Bizimis, M. and Alvarado, G.E. (2015), Recycled crust in the Galápagos Plume source at 70 Ma: Implications for plume evolution, *Earth Planet. Sci. Lett.*, doi:10.1016/j.epsl.2015.05.036.

Herzberg, C., Cabral, R.A., Jackson, M.G., Vidito, C., Day, J.M.D. and Hauri, E.H. (2014), Phantom Archean crust in Mangaia hotspot lavas and the meaning of heterogeneous mantle, *Earth Planet. Sci. Lett.*, doi:10.1016/j.epsl.2014.03.065.

Vidito, C., Herzberg, C., Gazel, E., Geist, D. and Harpp K. (2013), Lithological Structure of the Galápagos Plume, *Geochem. Geophys. Geosys.*, doi: 10.1002/ggge.20270.

Herzberg, C., Asimow, P.D., Ionov, D.A., Vidito, C., Jackson, J.G. and Geist D. (2013), Nickel and helium evidence for melt above the core mantle boundary, *Nature*, doi: 10.1038/Nature11771.

Meetings/Abstracts:

Herzberg C., Gavrilenko M. and Vidito, C. (2015) Provenance of Olivine in Volcanic Rocks. Goldschmidt conference, Prague, CZ, 16-21 August, 2015

Trela, J., Gazel, E., Vidito, C.A., Class, C., Jicha, B.R., Bizimis, M., Herzberg, C.T. and Alvarado-Induni, G. (2014), "The LIP-OIB transitional phase in the Galapagos mantle plume", AGU Fall Meeting.

Gazel, E., Vidito, C.A., Herzberg, C.T. and Class, C. (2013), "From LIP to OIB: A view from the Galapagos", AGU Fall Meeting.

Whalen, W. T., Gazel, E., Vidito, C.A., Herzberg, C.T., Class, C., Bizimis, M. and Alvarado-Induni, G. (2013) "Pyroxenite in the Galapagos plume source at 65 Ma", AGU Fall Meeting.

Gazel, E., Herzberg, C. and Vidito, C.A. (2012), Recycled crust and the secular cooling of mantle plumes, AGU Fall Meeting.

Gazel, E., Herzberg, C. and Vidito, C.A. (2011), The effect of recycled oceanic crust in the thermal evolution of the Galapagos plume, AGU Fall Meeting.

Vidito, C., Herzberg, C. and Geist, D. (2011), The Source Lithology of the Galapagos Plume: Implications from Olivine Phenocryst Compositions, Chapman Conference, Galapagos.

Professional Memberships:

American Geophysical Union (AGU)

Mineralogical Society of America (MSA)