August 2014: Curriculum Vitae

N. Alex Zirakparvar

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Education

Ph.D. (Earth Science) 2012: Syracuse University, Syracuse, NY M.S. (Geology) 2007: Washington State University, Pullman, WA B.S. (Geology & Francophone Cultures) 2005: Juniata College, Huntingdon, PA

Relevant Academic Appointments

- -June 2012 to Present: Kathryn Davies Research and Education Postdoctoral Scholar @ AMNH
- -August 2012 to Present: Adjunct assistant professor @ The City College of New York (CCNY)
- -January 2008 to May 2012: Graduate assistant @ Syracuse University:
- -September 2007 to January 2008: Student services contractor @ USGS Mineral Resources Division
- -September 2005 to September 2007: Graduate assistant @ Washington State University
- -September 2001 to June 2005: Research and teaching assistant (intermittently) @ Juniata College

Scientific Journal Articles (first author)

Published:

Zirakparvar, N.A., Mathez, E.M., Scoates, J., Wall, C. (2014) Zircon Hf isotope evidence for an enriched mantle source for the Bushveld Igneous Complex. Contributions to Mineralogy and Petrology 168: DOI: 10.1007/s00410-014-1050-2

Zirakparvar, N.A. (2014) A story of changing instructional practice by a research scientists learning how to turn future Earth Science teachers into master of content in a clinical preparation pilot program. Journal of Geoscience Education 62 (3): 280 - 284

Zirakparvar, N.A., Baldwin, S.L., Schmitt, A.K. (2014) Zircon growth in (U)HP quartzo-feldspathic host gneisses exhumed in the Woodlark Rift of Papua New Guinea. Geochemistry, Geophysics, Geosystems 15: 1258 - 1282

Zirakparvar, N.A., Baldwin, S.L., Vervoort, J.D. (2012) The origin and geochemical evolution of the Woodlark Rift of Papua New Guinea. Gondwana Research; doi: 10.1016/j.gr.2012.06.013

Zirakparvar, N.A., Baldwin, S.L., Vervoort, J.D. (2011) Lu-Hf garnet geochronology applied to plate boundary zones: Insights from the (U)HP terrane exhumed within the Woodlark Rift. Earth and Planetary Science Letters v. 309, 56 – 66.

Zirakparvar, N.A., Vervoort, J.D., McClelland, W., Lewis, R.S. (2011) Insights into the metamorphic evolution of the Belt-Purcell basin; evidence from Lu-Hf garnet geochronology. Canadian Journal of Earth Science v. 47, 1 – 19.

In Review:

Zirakparvar, N.A. (2014) Mobilization of the Lu-Hf system during exhumation of a (U)HP terrane in an active rift: Insights from laser ablation depth profiling of complex zircons. In review for Lithos (submitted August 2014)

Zirakparvar, N.A. (2014) The value of graduate level course work and research experience in teacher preparation's third space. In review for Journal of Science Teacher Education (submitted July 2014)

Selected Communications at International Meetings (first author)

Zirakparvar, N.A., Mathez, E.M., Wall, C. 2013. Insights into the origin of the Bushveld Igneous Complex (BIC) from zircon Hf isotopes. American Geophysical Union Fall Meeting 2013, #V51C-2680

Zirakparvar, N.A., Ustunisik, G., Flores, K., Nadeau, P., Sessa, J. 2013. An alternative path to improving university Earth Science teaching and developing the geoscience workforce: Postdoctoral research faculty involvement in clinical teacher preparation. American Geophysical Union Fall Meeting 2013: #ED13C-0786

Zirakparvar, N.A., Baldwin. S.L., Schmitt, A., Fitzgerald, P. 2012. On the interpretation fo U-Pb ages from (U)HP host gneisses in the Woodlark Rift of Papua New Guinea. Goldschmidt 2012 conference, session 17a.

Zirakparvar, N.A., Baldwin, S.L., Fitzgerald, P.G., Vervoort, J.D. 2010. Piecing together the eastern Australian margin in Gondwana: Origin of metamorphic rocks in the Woodlark Rift, SE Papua New Guinea. American Geophysical Union, Fall Meeting 2012, #T13C-2220.

Zirakparvar, N.A., Bookstrom, A.A., Vervoort, J.D. 2007. Cretaceous garnet growth in the Idaho Cobalt Belt: Evidence from Lu-Hf geochronology. Geological Society of America Abstracts with Programs v. 39, p. 413.

Zirakparvar, N.A., Mathur, R., 2005. Comparison of peridotite nodules from Lanzarote, Canary Islands, and the San Carlos Indian Reservation, Arizona. Geological Society of America Abstracts with Programs, v. 37, p. 60.

Awards and Short Courses

Best student publication award (2x @ Syracuse U.); Newton E. Chute outstanding graduate student award (Syracuse U.); Marjorie Hooker Award (@ Syracuse U.); Completion of W.M. Keck Microprobe Student Workshop (@ UCLA). Graduate Student Award (@ WSU); Calvert Ellis merit scholarship (@ Juniata Col.).

Synergistic Activities

- -Teaching fellow with full faculty responsibilities in the Masters of Art in Earth Science Education pilot program at the American Museum of Natural History, which is the first urban teacher residency program offered by a museum and is preparing Earth Science teachers for placement in high-needs public schools throughout NYS.
- Adjunct assistant professor in the Early College Program at CCNY, which provides urban high school students (many of whom have economically disadvantaged backgrounds and are English language learners) with opportunity to earn college credits
- -Departmental seminar co-coordinator at the AMNH

Recent Collaborators

AMNH: Maritza Macdonald, Rosamond Kinzler, Ed Mathez

LDEO: Louise Bolge

Syracuse University: Suzanne Baldwin, Paul Fitzgerald, Jeff Karson, Scott

Samson

UCLA: Axel K. Schmitt

United States Geological Survey: Steve Box, Art Bookstrom

Washington State University: Jeff Vervoort, Charles Knaack, Garrett Hart

University of Idaho: Reed Lewis

Juniata College: David Lehman, Ryan Mathur

Graduate Advisors

Syracuse University (Ph.D.): Suzanne L. Baldwin Washington State University (M.S.): Jeff D. Vervoort

Funding

Co-Principal Investigator on grant proposal #1347962 submitted for NSF solicitation # NSF 09-543: 'Collaborative research: Tracing magmas sources with sulfur and radiogenic isotopes in the Bushveld Complex'. *funding denied*

Languages

Native English, fluent French, conversational Spanish.