

Scott Johnston

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Education

- PhD, University of California, Santa Barbara (December, 2006)
 - Dissertation “Exhumation of Norwegian Ultrahigh-Pressure Rocks”
- MS, Stanford University (September 2000)
 - Masters Thesis: “Normal Faulting in the Upper Plate of a Metamorphic Core Complex, Northern Snake Range, Nevada”
- BS, Stanford University (June 1999)
 - Quarter abroad–ISIS, Barcelona, Spain, winter 1998.
 - Summer Field Camp–Indiana University.

Teaching Experience

- GSA workshop: Starting out in undergraduate research and education (October, 2007)
- Associate Instructor, Physical Geology (August, 2007–present)
University of Arizona
- Associate Instructor, Structural Geology (January–March 2006)
University of California, Santa Barbara
- Teaching Assistant, University of California, Santa Barbara
Principles of Physical Geology (Fall, 2002), Structural Geology (Winter, 2003), Metamorphic Petrology (Fall, 2003), Optical Mineralogy (Fall, 2004), Isotope Tracers (Winter, 2005), Field Methods (Spring 2003, 2004, 2005, 2006)
- Outdoor Education Naturalist (September 2001–June 2002)
San Mateo Outdoor Education, San Mateo, CA
- High School Geology Teacher (August 2000–December 2000)
Swiss Semester, Zermatt, Switzerland

Research Experience

- University of Arizona Post-doctoral Researcher (November 2006–present)
 - Application of laser ablation ICP mass spectrometry to geochronology (standard calibration for titanite & apatite) and petrology (Hf isotopes in zircon, trace element thermometry)
 - Tectonic evolution of the East Greenland Caledonides
- PhD and MS Research Projects: geochronology (laser ablation ICP mass spectrometry, ion microprobe, laser ablation $^{40}\text{Ar}/^{39}\text{Ar}$ mass spectrometry), petrology (electron microprobe, scanning electron microscopy, THERMOCALC, Perple_X), structural geology (electron-backscatter diffraction, geologic mapping)
 - PhD Advisor: Bradley Hacker; Western Norway: (July, 2002–November 2006)
 - MS Advisor: Elizabeth Miller; Northern Snake Range, NV (August 1999–September 2000)
- Geologic Field Assistant (July–August, 1998; February 2000)
Northern Snake Range, NV; Sonora, Mexico
 - Detailed and reconnaissance geologic mapping, measuring and describing section.
- Field Assistant (July, 1997; July 2000; July, 2001)
White Mountain Research Station, CA
 - Ground truthing of rock type and vegetation coverage for remote spectral data.

Grants and Awards

- Outstanding Lecturer, Awarded by UCSB Geology undergraduates (June, 2006)
- Geological Society of America Structural Geology and Tectonics Division, Outstanding Student Research Award (October, 2005)
- Lloyd and Mary Edwards Field Studies Fellowship (June, 2005)
- Geological Society of America Outstanding Student Research Grant Proposal (Spring 2004, 2005)
- Outstanding Teaching Assistant, Awarded by UCSB Geology undergraduates (June, 2004)
- George Tunnell Endowed Fellowship, UCSB Department of Geological Sciences (June, 2003)
- Geological Society of America, Graduate Student Research Grant (Spring, 2003)

Publications

- Johnston, S. M.**, Hacker, B. R., Eide, E., and Hendriks, B. W. H. (in prep) Late–Post Tectonic Initiation of the Nordfjord–Sogn Detachment Zone, Hornelen region, Norway.
- Johnston, S.M.**, Hacker, B.R., and Ducea, M.N. (2007) Exhumation of Ultrahigh-Pressure Rocks Beneath the Hornelen Segment of the Nordfjord–Sogn Detachment Zone, Western Norway: *GSA Bulletin*, Vol 119, 1232–1248; doi 10.1130/B26172.1.
- Johnston, S.M.**, Hacker, B.R., and Andersen, T.B. (2007) Exhuming Norwegian Ultrahigh-Pressure Rocks: Overprinting Extensional Structures and the Role of the Nordfjord–Sogn Detachment Zone: *Tectonics*, Vol. 26, TC5001, doi: 10.1029/2005TC001933.
- Johnston, Scott, M.** (2006) Exhumation of Norwegian Ultrahigh-Pressure Rocks. PhD Thesis, University of California, Santa Barbara, 132 pp.
- Hacker, B.R., Abers, G.A., Peacock, S.M., and **Johnston, S.** (2004) Reply to comment by Romain Bousquet et al. on Subduction Factory 1. Theoretical mineralogy, densities, seismic wave speeds, and H₂O contents, *Journal of Geophysical Research*, Vol. 110, doi: 10.1029/2004JB003490.
- Johnston, Scott, M.** (2000) Normal faulting in the upper plate of a metamorphic core complex, northern Snake Range, Nevada. MS Thesis, Stanford University, 60 pp.

Selected Abstracts

- Johnston, S. M.**, Gehrels, G. E., and Hartz, E. H. (2007) U-Pb Zircon Age Maps Using Laser Ablation Multicollector ICP Mass Spectrometry: Application to Liverpool Land Paragneisses, East Greenland: *GSA Abstracts with Programs*, Vol. 39, No. 6, p. 407.
- Johnston, S. M.**, Hacker, B. R., Eide, E., and Hendriks, B. W. H. (2006), In Situ UV-Laser Ablation ⁴⁰Ar/³⁹Ar Muscovite Thermochronology Reveals Excess Argon and 405–399 Ma Age for the Nordfjord-Sogn Detachment Zone, Hornelen region, Norway: *Eos, Transactions American Geophysical Union*, v. 87.
- Johnston, S. M.**, and Hacker, B. R. (2005) Differential Strain Rate as a Mechanism for the Formation of Detachment-Fault Corrugations: A Case Study from Western Norway: *Eos, Transactions American Geophysical Union*, v. 86.
- Johnston, S.M.**, Hacker., B.R., and Gehrels, G. (2004) Pelite thermobarometry and monazite geochronology reveal pre-ultrahigh-pressure orogeny in the Hornelen Region, Norway: *GSA Abstracts with Programs*, Vol. 36, No. 5, p. 533.
- Johnston, S.M.**, Hacker, B.R. (2003) Evolution of the Nordfjord-Sogn Detachment Zone, Hornelen Region, Norway, *The Alice Wain Memorial Western Norway Eclogite Field Symposium abstract volume, NGU Report 2003.055*, p. 65.
- Johnston, S.M.** (2000) Normal faulting in the upper plate of a metamorphic core complex, Northern Snake Range, Nevada: *GSA Abstracts with Programs*, V. 32, p. 43.