

John Naliboff

a. Professional Preparation

| Institution | Location | Major or Area | Degree & Year |
|---------------------------------|-----------|---------------|--------------------------|
| University of California, Davis | Davis | Geology | B.S. (2003) |
| University of California, Davis | Davis | Geology | M.S. (2005) |
| University of Michigan | Ann Arbor | Geology | Ph.D. (2009) |
| University of California, Davis | Davis | Geophysics | Postdoctoral (2010-2013) |
| Geological Survey of Norway | Trondheim | Geophysics | Postdoctoral (2013-2015) |

b. Appointments

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|--------------|--|
| 2016-Present | Project Scientist, Department of Earth and Planetary Sciences, UC Davis |
| 2011-2013 | Part-time Lecturer, Department of Earth and Planetary Sciences, UC Davis |

c. Products

PRODUCTS MOST CLOSELY RELATED

1. Zwann, Z.H., Schreurs, G., *Naliboff, J.B.* and Buitert, S.J.H. (In Revision), Insights Into the Effects of Transtension on Continental Rift Interaction from 3D Analogue and Numerical Modeling.
2. *Naliboff, J.B.* and Buitert, S.J.H. (2015), Rift reactivation and migration during multiphase extension. *Earth Planet. Sci. Letts.*, 421, 58-67, doi:10.1016/j.epsl.2015.03.050.
3. *Naliboff, J.B.*, Billen, M.I. and Gerya, T. (2013), Dynamics of outer rise faulting in oceanic-continental subduction systems. *Geophys. Geochem. Geosyst.*, doi: 10.1002/ggge.20155
4. *Naliboff, J.B.*, Lithgow-Bertelloni, C., Ruff, L. and de Koker, N. (2012) The effect of lithospheric thickness and density structure on Earth's stress field. *Geophys. J. Int.*, 88(1), 1-17, doi:10.1111/j.1365-246X.2011.05248.x.
5. *Naliboff, J.B.*, Conrad, C. and Lithgow-Bertelloni, C. (2009), Modification of the lithospheric stress field by lateral variations in plate-mantle coupling. *Geophys. Res. Lett.* 36, L22307, doi:10.1029/2009GL040484.

OTHER SIGNIFICANT PRODUCTS

1. *Naliboff, J.B.* and Kellogg, L.H. (2007), Can large increases in viscosity and thermal conductivity preserve large-scale heterogeneity in the mantle? *Phys. Earth Planet. Inter.* 161, 86-102.
2. *Naliboff, J.B.* and Kellogg, L.H. (2006), Dynamic effects of a step-wise increase in thermal conductivity and viscosity in the lowermost mantle. *Geophys. Res. Lett.* 33, L12S09, doi:10.1029/2006GL025717.

d. Synergistic Activities

1. As both a graduate student and postdoctoral scholar, I have conducted extensive research in the field of computational geodynamics, which in many cases required the use of high-performance computing resources. The range of investigated topics includes global stress field modeling, mantle convection, subduction and continental extension. Active research topics currently focus on high-resolution 3-D modeling of continental extension, which involves the use of multiple massively scalable long-term tectonics codes.
2. In addition to current work on high-resolution 3-D modeling of continental extension, I am also actively participating in the development of proposals and initial software testing for projects examining combined models of modern mantle convection and lithospheric deformation. The numerical models associated with this project will require significant computational resources allocated through high-performance computing centers, and my collaborators and I are currently devising strategies for efficient initial scaling tests.

e. Collaborators & Other Affiliations

1. Collaborators – total number of collaborators and co-editors (10)

| | |
|----------------------|--|
| Magali Billen | University of California, Davis |
| Susanne Buiter | Geological Survey of Norway, Trondheim |
| Taras Gerya | Swiss Federal Institute of Technology (ETH), Zurich, Switzerland |
| Manuele Faccenda | University of Padua, Padua, Italy |
| Laetitia Le Pourhiet | Pierre and Marie Curie University, Paris, France |
| Dave May | Swiss Federal Institute of Technology (ETH), Zurich, Switzerland |
| Per Terje Osmundsen | Geological Survey of Norway, Trondheim |
| Gwenn Péron-Pinvidic | Geological Survey of Norway, Trondheim |
| Guido Schreurs | University of Bern, Bern Switzerland |
| Cedric Thieulot | Utrecht University, Utrecht, Netherlands |
| Frank Zwann | University of Bern, Bern, Switzerland |

2. Graduate Advisor(s) - total number of Graduate Advisors (3)

| | |
|-----------------------------|-----------------------------------|
| Louise Kellogg | University of California, Davis |
| Carolina Lithgow-Bertelloni | University College London, London |
| Larry Ruff | University of Michigan, Ann Arbor |

3. Postdoctoral Sponsor(s) - total number of Postdoctoral Sponsors (2)

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|----------------|--|
| Magali Billen | University of California, Davis |
| Susanne Buiter | Geological Survey of Norway, Trondheim |

4. Thesis advising and Postgraduate-Scholar Sponsor

Total number of graduate students advised (0)

Total number of postdoctoral scholars sponsored (0)