

# MICHAEL HALFORD TAYLOR

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## ACADEMIC PREPARATION:

2003 Ph.D. (projected), Geology, University of California, Los Angeles  
2000 M.S., Geology, University of California, Los Angeles  
1998 University of New Mexico and Los Alamos National Labs, Volcanology field camp  
1996 B.S., Geology, University of North Carolina, Wilmington

## CURRENT RESEARCH INTERESTS AND METHODS:

Timescales of fault behavior (M.y. to years)  
Fault interaction and mechanics  
Deformation and evolution of continental crust  
Remote sensing (e.g., InSAR, ASTER, MASTER, SRTM, CORONA, Landsat7)  
Seismic moment tensors (seismic strain rates)  
Field mapping and structural geology  
*In situ* Cosmogenic dating using  $^{10}\text{Be}$ ,  $^{26}\text{Al}$ , and  $^{36}\text{Cl}$

## PROFESSIONAL EXPERIENCE:

**UCLA (1998-** graduate student researcher, teaching assistant, and teaching fellow, number=quarters taught)  
Intro to Geology with Prof. Peter Bird (1)  
Intro to Oceanography with Assoc. Prof. Dave Paige and Dr. Frank Kyte (2)  
Structural Geology with Assoc. Prof. Gary Axen (2)  
Field Methods and Stratigraphy, with Prof. An Yin (2)  
Earthquakes, with Prof. John Vidale (1)

## *United States Geological Survey*, Woods Hole, MA (1996-1998)

Geophysical Processing (MCS, single-channel, refraction, inverse ray tracing)

## FIELD EXPERIENCE:

Tibet, 1999 (4 months), 2000 (2 months), 2002 (2 months)  
Southern CA (numerous field localities), 2000-2003 (2 months combined)  
UNM/Los Alamos National Labs Volcanology field camp, 1998 (1 month)

## AWARDS:

European Space Agency, Category-1 Proposal: Active Crustal Deformation in Central Tibet: Insight from Synthetic Aperture Radar Interferometry, 2002. (Taylor as PI)  
University of California Regents Fellowship, 1999, 2002, 2003  
American Geophysical Union, Outstanding Student Paper Award, Tectonophysics section, 2001  
Geological Society of America grant to support fieldwork in Tibet, 1999

## PROFESSIONAL MEMBERSHIPS:

American Geophysical Union  
Geological Society of America

## SYNERGISTIC ACTIVITIES AND OUTSIDE INTERESTS:

Volunteer for *Reading to Kids* (Inner city schools in Los Angeles) <http://www.readingtokids.org>  
Profiled for the *UCLA Graduate Student Quarterly*  
Triathlon  
Backpacking

## **PUBLICATIONS (INCLUDING MANUSCRIPTS IN PREP):**

- Taylor, M.**, A. Yin, F. J. Ryerson, P. Kapp, and L. Ding, Conjugate strike-slip faulting along the Bangong-Nujiang suture zone accommodates coeval east-west extension and north-south shortening in the interior of the Tibetan Plateau, *Tectonics*, 22(4), 1044, doi:10.1029/2002TC001361, 2003.
- Kapp, P., A. Yin, C. E. Manning, T. M. Harrison, **M. H. Taylor**, and L. Ding, Tectonic evolution of the early Mesozoic blueschist-bearing Qiangtang metamorphic belt, central Tibet, *Tectonics*, 22(4), 1043, doi:10.1029/2002TC001383, 2003.
- ten Brink, U.S. and **M.H. Taylor**, 2002, Crustal structure of Central Lake Baikal: Insight into intracontinental rifting. *Journal of Geophysical Research*. 10.1029/2001JB000300
- Taylor, M.H.**, W.P. Dillon, W. Danforth, C. Anton, 2000. Seismic Reflection profiles from the Blake Ridge, R/V Cape Hatteras. *USGS Open-file Report*.
- Taylor, M.H.**, 2000, Distributed Eastward Extrusion of the Tibetan Plateau: A Perspective from Rift-Bounding Faults in Central Tibet [MS thesis]: Los Angeles, California, University of California, Los Angeles.
- Taylor, M.H.**, Dillon, W.P. and Pecher, I.A., 1999. Trapping and migration of methane within the hydrate stability zone at the Blake Ridge Diapir; New insights from seismic data. *Marine Geology*. 64, 79-89.
- Taylor, M.H.**, and Yin, A., 2003, The mechanics of conjugate strike-slip faults: Examples from the Alpine-Himalaya orogenic belt. *In preparation for GSA Bull.*
- Taylor, M.H.**, Peltzer, G., Yin, A., 2003, Crustal deformation in central Tibet: quantitative constraints from InSAR, *In preparation for GSA Bull.*

## **SELECTED PAPERS PRESENTED AT CONFERENCES:**

- Taylor, M.**, G. Peltzer, An Yin, InSAR observations of conjugate strike-slip faulting in West Central Tibet. **To be presented at AGU, San Francisco, Fall 2003.**
- Taylor, M.**, G. Peltzer, An Yin, F.J. Ryerson, R. Finkel, L. Ding, 2002. Integrating InSAR and Geologic Estimates of slip rates in Central Tibet. GSA Annual meeting.
- Taylor, M.**, G. Peltzer, An Yin, F.J. Ryerson, R. Finkel, L. Ding, 2002. Active Deformation in Central Tibet: Constraints from InSAR and Geologic Observations. AGU Fall meeting.
- Taylor, M.H.**, An Yin, P. Kapp, F.J. Ryerson, Lin Ding, 2001. Coeval east-west Extension and north-south Shortening in Central Tibet. AGU Fall meeting.
- Taylor, M.H.**, An Yin, P. Kapp, F.J. Ryerson, 2000. Eastward Extrusion of Central Tibet. AGU Fall meeting
- ten Brink U.S., **M.H. Taylor**, and A. Golmshtok, 2000; Baikal Rift as an Analogue to the Early Opening Stage of the Atlantic ocean. AGU Fall meeting
- Taylor M.H.**, An Yin, P. Kapp, J. D'Andrea, T.M. Harrison, F.J. Ryerson, Yong Zhou, 1999. The Mayer Kangri Rift and Transform System: Kinematics and Magnitude of Extension in Central Tibet. AGU Fall meeting.

## REFERENCES:

- Dr. An Yin**, Professor of Geology  
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Department of Earth & Space Sciences  
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(Also at Jet Propulsion Labs, Caltech)
- Dr. Peter Bird**, Professor of Geology and Geophysics  
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- Dr. Gary Axen**, Assoc. professor of Geology  
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- Dr. Uri S. ten Brink**, Research Geophysicist,  
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