Curriculum Vitae

J. Bruce H. Shyu (officially known as Hao-Te Hsu) (徐澔德)

Associate Professor

Department of Geosciences, National Taiwan University

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+886-2-3366-9401 (office); +886-2-2363-6095 (fax); +886-963-124-668 (cell);

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Ph.D., Geology, California Institute of Technology, December 2005

Date of birth: 15 August 1972; Sex: Male; Citizenship: Taiwan

Primary Research Interest:

Earthquake geology, Tectonic geomorphology, Paleoseismology, Surface processes

Secondary Research Interest:

Sedimentology, Quaternary stratigraphy and environmental change, Geomicrobiology, Environmental geochemistry

Educational Background:

2005 Ph.D., Geology, California Institute of Technology, Pasadena, CA, USA

Thesis title: A Neotectonic Model of Taiwan, with a Focus on the Longitudinal Valley Suture

Thesis advisor: Kerry Sieh

1998 M.S., Geology, National Taiwan University, Taipei, Taiwan

Thesis title: The sedimentary environments since the Last Glacial in the southern part of Pingdong

Plain, southern Taiwan

Thesis advisor: Ping-Mei Liew

1994 B.S., Geology, National Taiwan University, Taipei, Taiwan

Professional Appointments:

08/12-present Associate professor

Department of Geosciences, National Taiwan University

08/09-07/12 Assistant professor

Department of Geosciences, National Taiwan University

08/08-07/09 Adjunct assistant professor

Department of Geosciences, National Taiwan University

01/08-07/09 Distinguished post-doctoral research fellow

Department of Geosciences, National Taiwan University

10/07-02/08 Hochschulassistent (Lecturer)

Department of Earth and Environmental Sciences, Ludwig-Maximilians-University

Munich, Germany

04/07-03/08 Post-doctoral research scholar Department of Earth and Environmental Sciences, Ludwig-Maximilians-University Munich, Germany 01/07-04/07 Visiting post-doctoral scholar Department of Geosciences, National Taiwan University 01/06-12/06 Post-doctoral research scholar Tectonics Observatory, Division of Geological and Planetary Sciences, California Institute of Technology 07/99-12/05 Graduate student research and teaching assistant Division of Geological and Planetary Sciences, California Institute of Technology 12/98-06/99 Full-time research assistant Department of Geology, Chinese Culture University, Taiwan 09/96-11/98 Graduate student research and teaching assistant Department of Geology, National Taiwan University 09/92-06/94 Undergraduate student research assistant Department of Geology, National Taiwan University

<u>Administrative Experiences:</u>

05/14-present Board member

Chinese Taipei Geophysical Society

10/13-07/14 Deputy Vice President for International Affairs

National Taiwan University

Research Experiences:

08/15-present Active tectonic characteristics and earthquake and tsunami hazards along major plate boundary belts in eastern and southeastern Asia

Research project funded by the Ministry of Science and Technology, Taiwan. Project number: MOST 104-2116-M-002-027-MY4

08/10-present Active tectonics and seismic hazards along major convergent plate boundaries: neotectonic characteristics of western Myanmar and the Taiwan orogen

Research project funded by the National Science Council, Taiwan. Project number: NSC 99-2116-M-002-009; NSC 100-2116-M-002-005; NSC 101-2116-M-002-013; NSC 102-2628-M-002-007-MY3

12/09-11/10 Investigation of the landslide and debris flow caused by Typhoon Morakot: Geomorphic analysis of landslides, debris flow deposits, and river evolution

Research project funded by the National Science Council, Taiwan. Project number: NSC 98-2745-M-002-010

01/08-03/11 Neotectonic architecture and distribution of convergence across plate boundaries: western central Andes and Taiwan

Research project funded by the National Science Council, Taiwan. Project number: NSC 97-2116-M-002-001; NSC 98-2116-M-002-001; NSC 99-2116-M-002-001

04/07-03/08 Neotectonic characteristics of the Preandean Depression and the central Western Cordillera between 22°S and 25°S, northern Chile

	Independent post-doctoral research project supervised by Anke Friedrich at
	Ludwig-Maximilians-University Munich, Germany
01/06-12/06	Preliminary neotectonic analysis of western central Andes
	Post-doctoral research project supervised by Mark Simons and Jean-Philippe Avouac at
	California Institute of Technology
01/01-11/05	Neotectonic architecture, model, and the active Longitudinal Valley suture of Taiwan
	Ph.D. research project advised by Kerry Sieh at California Institute of Technology
04/00-06/01	Genetic basis of humic acid reduction by the bacteria Shewanella oneidensis strain MR-1
	First year graduate student research project #2 advised by Dianne Newman at California
	Institute of Technology
10/99-10/00	Stable isotope geochemistry of Sumatran corals
	First year graduate student research project #1 advised by John Eiler and Kerry Sieh at
	California Institute of Technology
07/99-10/99	Laboratory synthesis and carbon isotopic characteristics of methane clathrate
	Graduate student summer research project advised by John Eiler at California Institute of
	Technology
12/98-06/99	Quaternary sediment sampling, core description and paleo-environmental analysis in
	western Taiwan
	Field and laboratory work supervised by Leh-Chyun Wu at Chinese Culture University,
	Taiwan
09/96-11/98	Quaternary sediment sampling, core description and paleo-environmental analysis in
	southwestern Taiwan
	Master thesis research project advised by Ping-Mei Liew at National Taiwan University
09/93-06/94	Geomorphic and neotectonic analysis of river terraces in central Taiwan
	Bachelor thesis research project advised by Ping-Mei Liew at National Taiwan University
Teaching Ex	xperiences:
08/09-present	Associate professor and assistant professor, Department of Geosciences, National Taiwan
	University
	Courses: Geological Surveying
	Earthquake Geology
	Tectonic Geomorphology
	Surface Processes and Landforms
	Geologic Hazard Assessment
	Geologic Maps and Profiles
	Introduction to Geosciences
	Introduction to Field Geology
	Taiwan Seismotectonics
	Seminars on Seismotectonics and Neotectonics
08/08-07/09	Adjunct assistant professor, Department of Geosciences, National Taiwan University
	Courses: Geological Surveying
	Tectonic Geomorphology

10/07-02/08 Hochschulassistent (Lecturer), Department of Earth and Environmental Sciences,

Ludwig-Maximilians-University Munich, Germany
Courses: Geologic Maps and Profiles, Winter 2007-08

10/00-12/05 Graduate teaching assistant, Division of Geological and Planetary Sciences, California Institute of Technology
Courses: Ge112, Geomorphology and Stratigraphy, Fall 2000-2003
Ge122, Geologic Hazard Assessment, Summer 2001, 2002, 2005
Ge177a, Geology of Earthquakes, Spring 2004

09/97-06/98 Graduate teaching assistant, Department of Geology, National Taiwan University Courses: Historical Geology, Fall 1997 and Spring 1998

Honors and Awards:

09/2014	Ta-You Wu Memorial Award, Ministry of Science and Technology, Taiwan, ROC	
09/2013	Distinguished Teaching Award, 2013-2017, National Taiwan University	
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08/2013	3 Distinguished Junior Scientist Research Grant, 2013-2015, National Science Council, Taiwan,	
	ROC	
09/2012	Outstanding Teaching Award, National Taiwan University	
01/2008	Distinguished Post-doctoral Research Fellowship, 2008-2010, National Science Council,	
	Taiwan, ROC	
12/2004	Outstanding Student Paper Award, 2004 Fall Meeting, San Francisco, USA, American	
	Geophysical Union	
06/2004	Richard H. Jahns Teaching Award, California Institute of Technology	
06/2003	Richard H. Jahns Teaching Award, California Institute of Technology	
11/2001	F. Beach Leighton Fellowship, California Institute of Technology	
07/2000	Li Ming Scholarship, California Institute of Technology	
07/1999	Continental Oil Company (CONOCO) Fellowship, California Institute of Technology	
06/1998	Mr. C.H. Chu Memorial Scholarship, National Taiwan University	
12/1997	Mr. K.Y. Liu Memorial Scholarship, National Taiwan University	
03/1994	Presidential Award, National Taiwan University	
12/1993	Geological Scholarship, Ministry of Economic Affairs, Taiwan, ROC	

Professional Memberships:

Since 1996	Geological Society of Taiwan
Since 1999	American Geophysical Union (AGU)
Since 2009	Asia Oceania Geosciences Society (AOGS)
Since 2010	Chinese Taipei Geophysical Society
Since 2010	European Geosciences Union (EGU)
Since 2011	Geological Society of America (GSA)