

Curriculum Vitae

Yun-Ruei Chuang

Personal information

Full name	Yun-Ruei Chuang
Also know as	Ray Y. Chuang
Place of birth	Hsinchu, Taiwan
Nationality	Taiwan, R.O.C
Contact information	Department of Geological Sciences, Indiana University Bloomington 1001 E 10 th St., Bloomington, IN 47405 e-mail: chuanguy@indiana.edu

Education

2008—current	Ph.D. program, Geophysics, Indiana University
2004—2007	M.S., Geology, Central Washington University Master thesis: “Interseismic deformation and earthquake hazards of the southernmost Longitudinal Valley fault, eastern Taiwan” Advisors: Dr. M. Meghan Miller & Dr. Charles M. Rubin
2003—2004	Master program, Geosciences, National Taiwan University
1997—2001	B.S., National Taiwan University Bachelor thesis: “River terraces correlation of lower reach of Tahanchi and its implications on neotectonics.” Supervisors: Dr. Yue-Gau Chen

Research interests

Active tectonics and crustal deformation
Tectonic geomorphology and quantitative geomorphology
Inverse theory and spatial statistics

Honors and scholarships

2000	President's award, National Taiwan University
2001	President's award, National Taiwan University
2001	Chang Wei-Jen Scholarship
2002	Most Outstanding Student Paper Award in 2002 Annual meeting of Geological Society of China at Taipei
2004	Chunghwa Post Scholarship
2007	Most Outstanding Student Paper Award in 2006 Annual meeting of American Geophysical Union at San Francisco
2007	Nominated for the 2007-2008 Mary Jo and Dale Comstock Distinguished Thesis Award
2008	Chevron Fellowship
2009	Most Outstanding Student Paper Award in 2009 Geology Crossroad Conference, Indiana University
2009	Honorary Mention, 2009 EarthScope National Meeting

Membership

Since 2001	Geological Society of China at Taipei
Since 2004	Chinese Geophysical Society

Since 2004 American Geophysical Union
Since 2004 Geological Society of America

Work experience

July 1999—June 2000 Research assistant
Taiwan Geomorphological Research Unit, Department of
Geography, National Taiwan University, Taiwan
Supervisor: Dr. Jiun-Chuan Lin

July 2000—Feb. 2002 Research assistant
Paleo-environment and Neotectonics Lab., Department
of Geosciences, National Taiwan University, Taiwan
Supervisor: Dr. Yue-Gau Chen

March 2002—Nov. 2003 Airman First Class
Division of Communications, Electronics and
Information, Air Defense Artillery and Guard Command,
Chinese Air Force, Taiwan
Military service

Dec. 2003—July 2004 Research assistant
GPS & Geodetic Survey Lab., Institute of Earth
Sciences, Academic Sinica, Taiwan
Supervisor: Dr. Shui-Beih Yu

Sept. 2004—June 2006 Research assistant
PANGA (Pacific Northwest Geodetic Array) and
Geodesy Lab., Department of Geological Sciences,
Central Washington University, Washington, USA
Supervisor: Dr. M. Meghan Miller

Feb. 2007—July 2007 Research staff
Paleo-environment and Neotectonics Lab., Department
of Geosciences, National Taiwan University, Taiwan
Supervisor: Dr. Yue-Gau Chen

Aug. 2007—June 2008 Research staff
Tectonics Lab, Department of Geosciences, National
Taiwan University, Taiwan
Supervisor: Dr. John Suppe

Teaching activities

2001	Teaching assistant NTU Geology 20700, Introduction of Geological Survey
2001	Teaching assistant NTU Geology 49120, Summer Field Camp – Sedimentary rocks
2005	Teaching assistant Caltech Ge122, Geologic Hazards Mapping
2007	Teaching assistant NTU Geology 20700, Introduction of Geological Survey
2007	Teaching assistant NTU Geology 49120, Summer Field Camp – Metamorphic Rocks
2009	Associate instructor IUB G103, Earth Science: Materials and Processes

Publications

(A) Thesis and papers

1. Chuang, R.Y. (2001) River terraces correlation of lower reach of Tahanchi and its implications on neotectonics. Bachelor Thesis, 55 pp.
2. Chuang, R.Y. (2007) Interseismic deformation and earthquake hazards of the southernmost Longitudinal Valley fault. Master Thesis, 46 pp.

3. Shyu, J.B.H., Sieh, K., Chen, Y.G., Chuang, R.Y., Wang, Y., and Chung, L.H. (2007) Geomorphology of the southernmost Longitudinal Valley fault: Implications for evolution of the active suture of eastern Taiwan. *Tectonics*, 27, TC1019, doi: 10.1029/2006TC002060.
4. Chuang, R.Y., Miller, M., Chen, Y.G., Chen, H.Y., Shyu, J.B.H., Yu, S.B., Rubin, C.M., Sieh, K., and Chung, L.H. (2008) Interseismic deformation and earthquake hazards of the southern Longitudinal Valley fault, eastern Taiwan. In preparation.

(B) Conference papers and abstracts

1. Chuang, R.Y., Chen Y.G., Wang, Y., and Lee, C.T. (2002) River terraces correlation of lower reach of Tahanchi and its implications on neotectonics. 2002 Annual Meeting of the Geological Society of China, Program with Abstracts, p. 347-349.
2. Shyu, J.B.H., Sieh, K., Chuang, R.Y., Wang, Y., Chung, L.H., Chen, Y.G., and the Caltech Ge122 Group (2002) Deformations of River Terraces near the Luyeh River, Eastern Taiwan, and Their Tectonic Implications. 2002 Annual Meeting of the Geological Society of China, Program with Abstracts, p. 40-43.
3. Wang, Y., Chen, Y.G., Chuang, R.Y., and Shyu, J.B.H. (2002) Geomorphology and Active Structures of the Taoyuan - Hsinpu Area. 2002 Annual Meeting of the Geological Society of China, Program with Abstracts, p. 21-24.
4. Chen, Y.G., Shyu, J.B.H., Lai, K.Y., Wang, Y., Chuang, R.Y., and Chen, W.S. (2002) Deformed Terraces and Active Structures: A Case along Tungpuna River, Nantao. 2002 Annual Meeting of the Geological Society of China, Program with Abstracts, p. 12-14.
5. Wang, Y., Chen, Y.G., Shyu, J.B.H., Chuang, R.Y., Lin, Y.N., and Chung, L.H. (2002) the active tectonic features in Taoyuan area, northwestern Taiwan. *Eos. Trans. AGU*, 83(47), Fall Meeting, Suppl., Abstract T62D-10.
6. Wang, Y., Chen, Y.G., Yang, K.M., Huang, S.T., Shyu, J.B.H., Chuang, R.Y., and Lin, Y.N. (2003) Morphotectonics in Taoyuan – Hsinchu Area, Northwestern Taiwan. 2003 Annual Meeting of the Geological Society of China, Program with

Abstracts, p. 158.

7. Wang, Y., Chen, Y.G., Lin, Y.N., Chung, L.H., Shyu, J.B.H., Yang, K.M., Huang, S.T., and Chuang, R.Y. (2005) Fault-related tectonic landscape and neotectonic activity in Taoyuan – Hsinchu Area, Northwestern Taiwan. International Conference on Theory and Application of Fault-Related Folding in Foreland Basin, Abstract, 10.
8. Chuang, R.Y., Miller, M., Chen, Y.G., Chen, H.Y., Shyu, J.B.H., Yu, S.B., and Sieh, K. (2006) Interseismic crustal deformation and seismic potential in the Luyeh area, eastern Taiwan. Eos. Trans. AGU, 87(52), Fall Meeting, Suppl., Abstract T33D-0549.
9. Chuang, R.Y., Miller, M., Shyu, J.B.H., and Chen, Y.G. (2007) Interseismic crustal deformation of Taiwan: A new insight with constraints of block model on 7-year GPS results. Eos. Trans. AGU, 88(52), Fall Meeting, Suppl., Abstract T32C-02.
10. Huang, S.Y., Lin, Y.N., Liu, J., Chen, Y.G., Chung, L.H., Lai, K.Y., Chuang, R.Y., Zhao, R., Yin, G., and Cao, Z. (2007) The implication of elevated lacustrine sediments in the middle reach of the Yarlung – Tsangpo and Nyang River, Tibet. Eos. Trans. AGU, 88(52), Fall Meeting, Suppl., Abstract PP23A-1081.
11. Chuang, R.Y., Miller, M., Shyu, J.B.H., and Chen, Y.G. (2008) Interseismic crustal deformation of Taiwan: An aspect of block tectonics. European Geosciences Union 2008 General Assemblies, EGU2008-A-03033.
12. Shi, K.W., Chen, Y.G., and Chuang, R.Y. (2008) Active tectonics in the hanging wall area of Sanyi fault: from Chentoushan to Cholan area, central Taiwan. 2008 Geological Congress, B60.
13. Huang, S.Y., Lin, Y.N., Chen, Y.G., Lai, K.Y., Chung, L.H., Chuang, R.Y., (2008) The implication of exposed lacustrine sediments in the tributary of the Nyang River, Tibet. 2008 Geological Congress, B104.

14. Chuang, R.Y. and Johnson, K.M. (2008) Fault slip rate estimates for southern California using viscoelastic plate-block models. Southern California Earthquake Center 2008 Annual Meeting, 1-119.
15. Chuang, R.Y. and Johnson, K.M. (2008) Fault slip rate estimates for southern California using viscoelastic plate-block models. Eos. Trans. AGU, 89(53), Fall Meeting, Suppl., Abstract G21A-0656.
16. Chuang, R.Y. and Johnson, K.M. (2009) Fault slip rate estimates for southern California using viscoelastic lithosphere-block models. 2009 EarthScope National Meeting.
17. Chuang, R.Y. and Johnson, K.M. (2009) Interseismic fault locking depth estimates for southern California. Southern California Earthquake Center 2009 Annual Meeting, 2-069.
18. Johnson, K.M. and Chuang, R.Y. (2009) Are there geologic/geodetic fault slip rate discrepancies in southern California? Southern California Earthquake Center 2009 Annual Meeting, 2-049.