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〔學歷〕

- 1970：國立台灣師範大學物理系 學士
- 1974：國立中央大學地球物理研究所 碩士
- 1989：國立中央大學地球物理研究所 博士

〔經歷〕

- 1990/06 - 2013/7/31: 中央研究院 地球科學研究所 研究員
- 2000/08 - 2004/07：中央研究院 地球科學研究所 副所長
- 1987/04 - 1988/03：美國加州大學洛杉磯校區 地球及太空科學系 訪問學者
- 1982/05 - 1982/11：美國地質調查所 Office of Earthquake Studies U.S.G.S. Menlo Park 訪問研究員
- 1980/08 - 1990/05：中央研究院 地球科學研究所 副研究員
- 1976/07 - 1980/07：中央研究院 地球科學研究所 籌備處 助理研究員
- 1975/02 - 1976/06：中央研究院 物理研究所 助理研究員

〔學術服務〕

- 1993/01 - 1996/12：地球科學集刊執行編輯

〔學會/榮譽〕

- 1982：行政院傑出科技榮譽獎
- 中國地質學會
- 中國地球物理學會
- 中華民國地球科學學會
- 美國地球物理學會

〔著作〕

(1) SCI Journal Papers:

1. Yu, S.B., Y.J. Hsu, T. Bacolcol, C.C. Yang, Y.C. Tsai, and R. Solidum (2013) Present-day crustal deformation along the Philippine Fault in Luzon, Philippines, *J. Asian Earth Sci.* 65, 64-74, doi:10.1016/j.jseaes.2010.12.007. (SCI).
2. Hsu, Y. J., M. Ando, S.B. Yu, and M. Simons, 2012, "The potential for a very large earthquake along the southernmost Ryukyu subduction zone", *GEOPHYSICAL RESEARCH LETTERS*, 39.
3. Hsu, Y.J., S.B. Yu, and T.R.A. Song, 2012, "Plate coupling along the Manila subduction zone between Taiwan and northern Luzon", *JOURNAL OF ASIAN EARTH SCIENCES*, 51, 98-108.
4. Chuang, R. Y., M. Miller, Y.G. Chen, H.Y. Chen, J. B. H. Shyu, S.B. Yu, C. M. Rubin, K. Sieh, L.H. Chung (2012) Interseismic deformation and earthquake hazard along the southernmost Longitudinal Valley fault, eastern Taiwan, *Bull. Seism. Soc. Am.*, 102, 4, 1569-1582.

5. Tsai, M.C., S.B. Yu, Y.R. Hsu, H.Y. Chen, H.W. Chen (2012) Interseismic crustal deformation of frontal thrust fault system in the Chiayi-Tainan area, Taiwan. *Tectonophysics*, 554, 169-184., doi:10.1016/j.tecto.2012.05.014.
6. Chen, H.Y., J.C. Lee, H. Tung, S.B. Yu, Y.J. Hsu, H. Lee (2012) Determination of vertical velocity field of southernmost Longitudinal Valley in eastern Taiwan: a joint analysis of leveling and GPS measurements. *TAO*, 23(4), 355-376, doi: 10.3319/TAO.2012.02.29.01
7. Hsu, Y.J., S.B. Yu, L.C. Kuo, Y.C. Tsai, and H.Y. Chen (2011) Coseismic deformation of the 2010 Jiashian, Taiwan earthquake and implications for fault activities in southwestern Taiwan, *Tectonophysics*, 502, 328-335. (SCI)
8. Chen, C.H., C.H. Wang, Y.J. Hsu, S.B. Yu, and L.C. Kuo, 2010, "Correlation between groundwater level and altitude variations in land subsidence area of the Choshuichi Alluvial Fan, Taiwan", *ENGINEERING GEOLOGY*, 115, 122-131, doi:10.1016/j.enggeo.2010.05.011.
9. Lin, K.C., J.C. Hu, K.E. Ching, J. Angelier, R.J. Rau, S.B. Yu, C.H. Tsai, T.C. Shin, and M.H. Huang (2010) GPS crustal deformation, strain rate and seismic activity after the 1999 Chi-Chi earthquake in Taiwan, *J. Geophys. Res.*, 115, B07404, doi:10.1029/2009JB006417. (SCI)
10. Liu, J. Y., H. F. Tsai, C. H. Lin, M. Kamogawa, Y. I. Chen, C. H. Lin, B. S. Huang, S. B. Yu, and Y. H. Yeh (2010) Coseismic ionospheric disturbances triggered by the Chi-Chi earthquake, *J. Geophys. Res.*, 115, A08303, doi:10.1029/2009JA014943.
11. Huang, W.J., K. M. Johnson, J. Fukuda, and S.B. Yu (2010) Insights into active tectonics of eastern Taiwan from analyses of geodetic and geologic data, *J. Geophys. Res.*, 115, B03413, doi:10.1029/2008JB006208.
12. Lee, C. C., F. D. Chu, W. S. Chen, J. Y. Liu, S.-Y. Su, Y. A. Liou, and S. B. Yu (2009) Spread F, GPS phase fluctuations, and plasma bubbles near the crest of equatorial ionization anomaly during solar maximum, *J. Geophys. Res.*, 114, A08302, doi:10.1029/2009JA014195.
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14. Chen, H.Y, Y.J. Hsu, J.C. Lee, S.B. Yu, L.C. Kuo, Y.L. Jiang, C.C. Liu and C.S. Tsai (2009) Coseismic Displacements and Slip Distribution from GPS and Leveling Observations for the 2006 Peinan Earthquake (Mw 6.1) in Southeastern Taiwan, *Earth Planets Space*, 61, 1-20. IESAS1311 [[pdf](#)]
15. Hsu, Y. J., S. B. Yu, and H. Y. Chen (2009) Coseismic and postseismic deformation associated with the 2003 Chengkung, Taiwan earthquake. *Geophys. J. Int.* 176, 420-430 [[pdf](#)]
16. Hsu Y. J., J. P. Avouac, S. B. Yu, C. H. Chang, Y. M. Wu, and J. Woessner (2009) Spatio-temporal slip, and stress level on the faults within the western foothills of Taiwan: Implications for fault frictional properties. *Pure and Applied Geophysics*, 166, 1853-1884.
17. Chen, H.Y., J.C. Lee, L.C. Kuo, S.B. Yu and C.C. Liu (2008) Coseismic surface GPS displacement and ground shaking associated with the 2006 Pingtung earthquake doublet, offshore southern Taiwan, *TAO*, 19, 683-696 (SCI).
18. Savage, J. C. and S. B. Yu (2008) Postearthquake relaxation and aftershock accumulation linearly related after 2003 Chengkung and 2004 Parkfield earthquakes, *Bull. Seism. Soc. Am.* 97, 1635-1645.
19. Hsu, Y. J., P. Segall, S. B. Yu, L. C. Kuo and C. A. Williams (2007) Temporal and spatial variations of postseismic deformation following the 1999 Chi-Chi, Taiwan earthquake, *Geophys. J. Int.*, 169, 367-379 (SCI).
20. Jung, T.K., J.Y. Liu, H.F. Tsai, B.S. Huang, C.H. Lin, S.B. Yu, and Y.H. Yeh (2006) Ionospheric disturbances triggered by the Mw 7.6 earthquake off the coast of El Salvador on 13 January 2001, *TAO*, 17, 345-351 (SCI).
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22. Chen H. Y., L. C. Kuo, S. B. Yu and C. C. Liu (2006) Coseismic and postseismic surface displacements of the 10 December 2003 (M w 6.5) Chengkung, eastern Taiwan, earthquake, *Earth Planets Space*, 58, 5-21.
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24. Johnson, K., P. Segall, and S. B. Yu (2005) A viscoelastic earthquake cycle model for Taiwan, *J. Geophys. Res.*, 110, doi:10.1029/2004JB003516
25. Liu, J. Y., Y. J. Chuo, S. J. Shan, Y. B. Tsai, S. A. Pulinets, and S. B. Yu (2004) Seismo-ionospheric anomalies monitored by GPS TEC: *Annales Geophysicae*, 22, 1585-1593 (SCI).
26. Hwang, C.W., L.H. Lee, S.B. Yu, H.Y. Chen (2004) Single- and multi-epoch analyses of Global Positioning System baseline network: Application to coordinate and velocity determinations in Central Taiwan, *J. Surv. Eng.-ASCE*, 130, 86-94 (SCI).
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38. Ma, K.F., J. Mori, S.J. Lee, and S.B. Yu (2001) Spatial and temporal distribution of slip for the 1999 Chi-Chi, Taiwan earthquake: *Bull. Seism. Soc. Am.* 91, 1069-1087 (SCI).
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42. Hu, J.C., S.B. Yu, and J. Angelier (2001) Active deformation of Taiwan from GPS measurements and numerical simulations: *J. Geophys. Res.*, 106, 2265-2280 (SCI).
43. Hirata, N., S. Sakai, Z.S. Liaw, Y.B. Tsai, and S.B. Yu (2000) Aftershock observations of the 1999 Chi-Chi, Taiwan earthquake: *Bull. Earthq. Res. Inst. Univ. Tokyo*, 75, 33-45.
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47. Hu, J.C., J. Angelier, and S.B. Yu, (1997) An interpretation of the active deformation of southern Taiwan based on numerical modelling and GPS studies: *Tectonophysics*, 274, 145-169.
48. Liu, C.C., and S.B. Yu (1990) Vertical crustal deformations in eastern Taiwan and its tectonic implications: *Tectonophysics*, 183, 111-119.
49. Yu, S.B., D.D. Jackson, G.K. Yu and C.C. Liu (1990) Dislocation model for crustal deformation in the Longitudinal Valley area, eastern Taiwan: *Tectonophysics*, 183, 97-109.
50. Prescott, W.H., and S.B. Yu (1986) Geodetic measurement of horizontal deformation in the northern San Francisco Bay region, California: *J. Geophys. Res.*, 91, B7, 7475-7484.
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(2) Non SCI Journal Papers:

1. Chen, C.H., Wang, C.H., Hsu, Y.J., Yu, S.B. and Kuo, L.C. (2009) Groundwater level variations and land subsidence in the Choshuichi Alluvial Fan. *Journal of Engineering Environment*, 22:119-132. (in Chinese with English abstract)
2. Liu, J. Y., Y. J. Chuo, S. J. Shan, Y. B. Tsai, S. A. Pulinets, and S.B. Yu (2004) Seismo-ionospheric anomalies monitored by GPS TEC: *Annales Geophysicae*.
3. Yu, S.B., H.Y. Chen, L.C. Kuo, C.S. Hou, and J.F. Lee (1999) Geodetic observations of fault activities in the Taipei basin: Central Geological Survey Special Publication No. 11, 227-251 (in Chinese).
4. Yu, C.Y., S.B. Yu, H.T. Chu (1998) Neotectonics of the Taiwan mountain belt: *Mantle Dynamics and Plate Interactions in East Asia Geodynamics* 27, AGU Monograph, 301-313.
5. Yu, S.B., and H.Y. Chen (1998) Strain accumulation in southwestern Taiwan: *TAO*, 9, 31-50.
6. Chen, C.S., L.C. Kuo and S.B. Yu (1996) Strategy for reducing the GPS height bias due to tropospheric refraction errors: *J. Surv. Engineering*, 38, 3-13.
7. Yu, S.B., and H.Y. Chen (1994) Global Positioning System measurements of crustal deformation in the Taiwan arc-continent collision zone: *TAO*, 5, 477-498.
8. Yu, S.B., and L.C. Kuo (1993) Utilizing continuous GPS data to study the crustal deformation in Taiwan: *Bull. Inst. Earth Sci., Academia Sinica*, 13, 77-82.
9. Yu, S.B., G.K. Yu, L.C. Kuo and C. Lee (1992) Crustal deformation in the southern Longitudinal Valley area, eastern Taiwan: *J. Geol. Soc. China*, 35, 3, 219-230.
10. Yu, S.B., and C.C. Liu (1989) Fault creep on the central segment of the Longitudinal Valley fault, eastern Taiwan: *Proc. Geol. Soc. China*, 32, 3, 209-231.
11. Yu, S.B., and C.C. Liu (1986) Coseismic deformation associated with the May 1986 Hualien earthquake: *Bull. Inst. Earth Sci., Academia Sinica*, 6, 73-84.
12. Lee, C., and S.B. Yu (1985) Precision of distance measurements for observing horizontal crustal deformation in Taiwan: *Bull. Inst. Earth Sci. Academia Sinica*, 5, 161-174.
13. Yu, S.B., and W.H. Prescott (1984) Horizontal strain accumulation in the northern San Francisco Bay region: *Bull. Inst. Earth Sci. Academia Sinica*, 4, 117-129.
14. Yu, S.B., Y.T. Yeh and Y.B. Tsai (1983) Microearthquake activity in southwestern Taiwan: *Bull. Inst. Earth Sci., Academia Sinica*, 3, 71-86.
15. Tsai, Y.B., T.L. Teng, Y.H. Yeh, S.B. Yu, K.K. Liu and J.H. Wang (1983) Status of earthquake prediction research in Taiwan, ROC: *Bull. Inst. Earth Sci., Academia Sinica*, 3, 1-26.
16. Yu, S.B., and Y.B. Tsai (1982) A study of microseismicity and crustal deformation of the Kungfu-Fuli area in eastern Taiwan: *Bull. Inst. Earth Sci., Academia Sinica*, 2, 1-18.
17. Yu, S.B., and Y.B. Tsai (1981) Thickness and P-wave velocity of the Miocene to Oligo-Eocene formations in northeastern Taiwan: *Bull. Inst. Earth Sci., Academia Sinica*, 1, 103-110.
18. Yu, S.B., and Y.B. Tsai (1981) Geomagnetic investigations in the Pingtung plain, Taiwan: *Bull. Inst. Earth Sci., Academia Sinica*, 1, 189-208.
19. Yu, S.B., and Y.B. Tsai (1979) Geomagnetic anomalies of the Ilan plain, Taiwan: *Petrol. Geol. Taiwan*, 16, 19-27.
20. 蔡義本, 余水倍, 廖鴻彬 (1978) 臺灣兩個地熱區之微震活動: *科學發展月刊*, 第六卷, 第二期, 102-115.
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(3) Others:

1. 余水倍, 郭隆晨, 顏進祥, 劉桓吉 (1999) 台北都會區活動斷層及地盤下陷水準測量: 八十八年度都會區地下地質與工程環境調查研究 - 台北都會區, 中央地質調查所報告集 88-003 號, 59 頁.
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13. 余水倍, 劉啟清, 劉至忠, 陳新壹, 趙志弘, 蘇文志 (1991) 台灣西南部活斷層之監測研究(I): 行政院國家科學委員會防災科技研究報告 79-53 號, 30 頁.
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16. 余水倍, 蔡義本 (1981) 臺灣東部瑞穗安通地區微震之研究: 中央研究院地球科學研究所, 67 頁.
17. 余水倍, 蔡義本 (1980) 大屯火山區微震及地動雜波之研究: 中央研究院地球科學研究所, 68 頁.
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