HUA-WEI ZHOU

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SUMMARY

- ✓ 30+ years of experience in applied and solid-Earth geophysics in academia and industry
- ✓ Supervised 18 post-docs, >30 Ph.D. students, and 30 M.S. students
- ✓ Published 1 book, >140 refereed papers and >100 abstracts at international conferences

RESEARCH INTERESTS

- ✓ Subsurface seismic imaging for petroleum exploration and solid Earth geophysics
- ✓ Tomographic velocity model building in applied and earthquake seismology
- ✓ Crustal & mantle seismology – probing the structure and properties of Earth's interior

EDUCATION

Date	Degree/Field	Institution
1989	PhD/Geophysics	California Institute of Technology, Pasadena, CA, U.S.A.
	Dissertation: *Tomographic mapping of subducted lithospheric slabs in the Northwestern Pacific*	
1984	MS/Geology	California State University, Long Beach, CA, U.S.A.
	Thesis: *Prismatic method in solving the gravitational potential, with applications at Cerro Prieto geothermal field, northern Mexico*	
1980	BS/Mathematics	China University of Geosciences, Wuhan, China

PROFESSIONAL EXPERIENCE

Date	Position
02/13 –	**Department Chair**, Dept of Earth & Atmospheric Sciences, University of Houston
09/12 –	**Professor, Sheriff Endowed College Professorship**, Dept of Earth & Atmospheric Sciences, University of Houston
10/10 –	**Adjunct Professor, "Thousand-talent-plan" Guest Professor (2013 –),** College of Marine Geoscience, Ocean University of China, Qingdao, China
06/14 –	**Guest Professor**, Wuhan University, Wuhan, China
09/07 – 08/12	Professor and Joe Pevehouse Endowed Chair of Exploration Geophysics, Dept of Geosciences, Texas Tech University, Lubbock, TX
10/05 – 09/10	Adjunct Professor, "Chu-Tian" Scholar, China University of Geosciences, Wuhan
09/98 – 08/07	Acting/Associate Director, Allied Geophysical Lab, University of Houston

09/98 – 08/07	Associate Professor/Professor, Dept of Geosciences, University of Houston (Adjunct Prof. from 8/2007 to 7/2010)
05/97 – 08/98	Research Specialist, Exxon Production Research Co., Houston, TX
11/89 – 05/97	Assistant & Associate Professor, Dept of Geosciences, University of Houston
08/84 – 10/89	Research Assistant, Seismological Lab, Caltech, Pasadena, CA
06/82 – 05/84	Research Assistant, Dept of Geological Sciences, CalState University, Long Beach, CA
06/80 – 05/82	Lecturer, China University of Geosciences, Wuhan, China
10/75 – 3/77	Assistant Geologist, Geological Survey of Jiangsu Province, Nanjing, China

PROFESSIONAL AFFILIATION & MAJOR SERVICES

Date	Position	Organization
1984 –	Member	American Geophysical Union (AGU)
1990 –	Active member	Society of Exploration Geophysicists (SEG)
1998 –	Editorial Board Member	Chinese Journal of Geophysics
2009 –	Editorial Board Member	Earthquake Science
1999 –	Founding member	International Professionals for the Advancement of Chinese Earth Sciences (IPACES)
1996 – 1997	Chair	AGU Regional Advisory Committee for North America
1997 – 2002	Academic Liaison	Geophysical Society of Houston
2003	Key Contact	SEG 2003 Annual Meeting Technical Committee
2008 – 2012	Editorial Board Member	Acta Seismologica Sinica
2010, 2014, 2016	Guest Editor	Journal of Earth Science

TEACHING

Undergraduate Courses (taught at University of Houston or Texas Tech University)**:**

- "Geology of Hydrocarbons"
- "Introduction to Earthquakes" and "Earthquakes"
- "Geophysical Studies of the Earth" and "Seismology & Earth Structure"

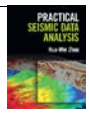
Graduate Courses (taught at University of Houston or Texas Tech University)**:**

- "Geophysical Data Processing" and "Seismic Data Processing"
- "Migration of Seismic Data" and "Seismic Migration"
- "Velocity Model Building" and "Seismic Velocity Analysis"
- "Exploration Geophysics" and "Petroleum Seismology"
- "Seismic Imaging" and "Seismic Depth Imaging"
- "Earthquake Seismology" and "Seismology: Theory & Practice"
- "Seismic Inversion: Current Concepts"
- "Geophysics for Engineers and Scientists"
- "Workstation Seismic Interpretation"

Short Courses Since 2012 (10):

#	Date	Institute | Location	Title of Short Course
1.	7/31-8/26,2015	UH short course | Houston	Petroleum seismology
2.	7/18, 2014	BGP | ZhuoZhou, China	Seismic imaging of conventional & unconventional reservoirs
3.	6/6- 7/15, 2014	OUC | Qingdao, China	Frontier of geophysics
4.	5/12-16, 2014	Petrobras | Houston	Seismic migration
5.	3/21-4/16, 2013	UH short course | Houston	Petroleum seismology
6.	6/17-21, 2013	Petrobras | Houston	Seismic migration
7.	4/8-9, 2013	WesternGeco | Houston	Regularization in seismic exploration
8.	7/19, 2012	BGP | ZhuoZhou, China	Seismic data processing, imaging & applications
9.	6/29, 2012	Nanjing U. | China	Exploration geophysics & recent advances
10.	6/18-22, 2012	Petrobras | Houston	Seismic migration

PUBLISHED BOOKS (1+1)



1. **Zhou, H.**, Practical Seismic Data Processing, Cambridge University Press, 482 pp., 2014.
2. **Zhou, H.**, et al., English translation of a Chinese book, "Systematic methods for high resolution seismic exploration" by Qingzhong Li, to be published by SEG in 2016.

REFEREED JOURNAL ARTICLES (71+2) (* STUDENT OR POSTDOC SUPERVISED)

1. EI Grannell, R. B., **H. Zhou**, and R. M. Wyman, Modeling of repetitive gravity observations at Cerro Prieto geothermal field, Geothermal Resource Council, Trans., 8, 203-206, 1984.
2. SCI (50) **Zhou, H**., How well can we resolve the deep seismic slab with seismic tomography? *Geophys. Res. Lett*., *15*, 1425-1428, 1988.
3. Qian, H., C. R. Allen, Z. Lou, X. Wen, **H. Zhou**, and W. Huang, The active characteristics of Xianshuihe fault in Holocene, *Earthquake Research in China*, *4*(2), 9-18, 1988.
4. SCI (10) Allen, C. R., Z. Lou, H. Qian, X. Wen, **H. Zhou**, and W. Huang, Segmentation and recent rupture history of the Xianshuihe fault, southern China, in Fault Segmentation and Controls of Rupture Initiation and Termination, eds. D. P. Schwartz, and R. H. Sibson, *U. S. Geol. Survey, Open-file Report*, *89-315*, 10-30, 1989.
5. Wen, X., C. R. Allen, Z. Lou, H. Qian, **H. Zhou**, and W. Huang, Segmentation, geometric features and seismotectonic implications of the Holocene Xianshuihe fault Zone, *Acta Seismologica Sinica*, *11*, 362-372, 1989.
6. SCI (30) **Zhou, H.**, and D. L. Anderson, Search for deep slabs in the Northwest Pacific mantle, *Proc. Natl. Acad. Sci. USA*, *86*, 8602-8606, 1989.
7. Allen, C. R., Z. Lou, H. Qian, X. Wen, **H. Zhou**, and W. Huang, Seismic hazard evaluation of a highly active fault – the Xianshuihe fault of southwestern China, *Proc. Internatl. Seminar on Seismic Zonation*, Chinese State Seismological Bureau, 126-135, 1989.

8. SCI(166) **Zhou, H**., and R. W. Clayton, P and S wave travel-time inversions for subducting slab under the island arcs of the Northwest Pacific, *J. Geophys. Res*., *95*, 6829-6851, DOI: 10.1029/89JB03455, 1990.

9. SCI (55) **Zhou, H**., D. L. Anderson, and R. W. Clayton, Modeling of residual spheres for subduction zone earthquakes. I. Apparent slab penetration signatures in the NW Pacific caused by deep diffuse mantle anomalies, *J. Geophys. Res*., *95*, 6799-6827, DOI: 10.1029/89JB03215, 1990.

10. SCI (41) **Zhou,** H., Observations on earthquake stress axes and seismic morphology of deep slabs, *Geophys. J. Int*., *103*, 377-401, 1990.

11. SCI (42) **Zhou, H**., Mapping of P wave slab anomalies beneath the Tonga, Kermadec and New Hebrides arcs, *Phys. Earth Planet. Inter*., *61*, 199-229, 1990.

12. McDonald, J. A., **H. Zhou**, T. K. Jones, T. E. Owen, J. H. Bangs, and D. S. Hamilton, Transmission and inversion of very high frequency acoustic wave data in shallow clastic sediments, Proceedings of SEGJ, *Geotomography*, *1*, 105-119, 1991.

13. SCI(226) Allen, C. R., Z. Lou, H. Qian, X. Wen, **H. Zhou**, and W. Huang, Field study of a highly active fault zone: The Xianshuihe fault of southern China, *Geol. Soc. Am. Bull*., *103*, 1178-1199, 1991.

14. McDonald, J. A., C. A. Link, **H. Zhou**, J. Jech, and B. J. Evans, Crosshole tomography in a working oil field: Seventy-Six West Field, south Texas, Proceedings of SEGJ, *Geotomography*, *2*, 159-178, 1992.

15. EI (10) **Zhou, H**., J. A. Mendoza, C. A. Link, J. Jech, and J. A. McDonald, Crosswell imaging in a shallow unconsolidated reservoir, *The Leading Edge*, *12*(1) 32-36, 1993.

16. EI (6) Link*, C. A., J. A. McDonald, **H. Zhou**, J. Jech, and B. J. Evans, Crosshole tomography in the Seventy-Six West Field, *The Leading Edge*, *12*(1), 36-40, 1993.

17. SCI (9) **Zhou, H**., Traveltime tomography with a spatial-coherency filter, *Geophysics*, *58*, 720-726, 1993.

18. Link*, C. A., J. A. McDonald, D. A. Ebrom, and **H. Zhou**, Characterization of lithology using crosshole methods, *Exploration geophysicist, 24*, 645-654, 1993.

19. **Zhou, H**., J. A. McDonald, C. A. Link, and J. Jech, Constraining the magnitude of velocity perturbations in traveltime tomography, *J. Seism. Exploration, 2*, 365-380, 1993.

20. SCI (19) Chen*, G., and **H. Zhou**, Boundary element modeling of nondissipative and dissipative waves, *Geophysics, 59*, 113-118, 1994.

21. SCI(64) **Zhou, H**., Rapid 3-D hypocentral determination using a master station method, *J. Geophys., Res., 99*, 15439-15455, DOI: 10.1029/94JB00934, 1994.

22. Chen*, G., and **H. Zhou**, Numerical modeling of the response of aligned cracks to acoustic waves, *J. Seismic Exploration*, *3*, 69-78, 1994.

23. SCI (12) **Zhou, H**., and H. Wang, A revisit to P-wave traveltime statics at teleseismic stations, *J. Geophys. Res*., *99*, 17849-17861, DOI: 10.1029/94JB00234, 1994.

24. SCI (2) Ha., S. T. T., **H. Zhou**, and J. A. McDonald, Determination of reflector angular position using directional phase-encoded wavefield, *IEEE TANS Geoscience & Remote Sensing*, *33*, 15-25, 1995.

25. SCI (5) **Zhou, H**., and G. Chen, Waveform response to the morphology of 2D subducting slabs, *Geophys. J. Int*., *121*, 511-522, 1995.

26. SCI, EI Ha*, S. T. T., **H. Zhou**, R. E. Sheriff, and J. A. McDonald, Artificial generation of a directional phase-encoded wavefield, *IEEE Trans. Geosciences & Remote Sensing*, *33*, 262-267, 1995.

27. SCI (40) Magistrale, H., and **H. Zhou**, Lithological control of the depth of earthquakes in Southern California, *Science*, *273*, 639-642, 1996.

28. SCI (22) Cizkova, H., O. Cadek, D. A. Yuen, and **H. Zhou**, Slope of the geoid spectrum and constraints on mantle viscosity stratification, *Geophys. Res. Lett.*, *23*, 3063-3066, 1996.

29. SCI Ha*, S. T. T., **H. Zhou**, R. E. Sheriff, and J. A. McDonald, Fourier transforms of approximation for sweeps and phase-encoded sweeps, *Geophysics*, *61*, 1440-1452, 1996.

30. SCI(125) **Zhou, H**., A high-resolution P-wave model for top 1200 km of the mantle, *J. Geophys. Res*., *101*, 27791-27810, DOI: 10.1029/96JB02487, 1996.

31. SCI (11) Cadec, O., D. A. Yuen, H. Cizkova, M. Kido, **H. Zhou**, D. Runet, and P. Machetel, New perspectives on mantle dynamics from high-resolution seismic tomographic model P1200, *PAGEOPH*, *151*, 503-525, 1998.

32. **Zhou, H.**, A. Hou, and O.K. Youn, Current status of full-wave seismic imaging, in *Development in Engineering Geophysics*, B. Xiao edi., Publication of Wuhan U. of Hydro and Electrical Powers, 25-41, 2000.

33. EI Marfurt, K. J., **H. Zhou**, K. K. Sekharan, R. E. Sheriff, S. A. Hall, S. Nagihara, and A. Hou, Future need for geophysicists and geophysical research in the oil business? Conclusions of a 'listening tour', *The Leading Edge*, *19*(9), 974-980, 2000.

34. SCI(78) Youn*, O. K., and **H. Zhou**, Depth imaging with multiples, *Geophysics*, *66*, 246-255, 2001.

35. (18) **Zhou, H**. M. Murphy, and Q. Lin, Tomographic imaging of the Tibet and surrounding region: Evidence for wholesale underthrusting of Indian slab beneath the Tibetan plateau, *Earth Science Frontiers*, *9*(4), 285-292, 2002.

36. SCI (18) Bjorklund, T., K. Burke, **H. Zhou**, and R. S. Yeats, Miocene rifting in the Los Angeles basin: Evidence from the Puente Hills half-graben, volcanic rocks and P-wave tomography, *Geology*, *30*, 447-450, 2002.

37. SCI(70) **Zhou, H**., Multi-scale traveltime tomography, *Geophysics*, *68*, 1639-1649, 2003.

38. EI Hoelting*, C., M. Gherasim, W. Duncan, K. Marfurt, and H. Zhou, A preliminary study of salt flank illumination at Vinton Dome, Louisiana: Do we need lateral wavefield continuation? *The Leading Edge, 22(10)*, 974-974, 2003.

39. SCI (11) **Zhou, H**., Multi-scale tomography for crustal P and S velocities in southern California, *PAGEOPH*, *161*, 283-302, 2004.

40. SCI (20) **Zhou, H**., Direct inversion of velocity interfaces, *Geophys. Res. Lett*., *31*, 447-450, L07612, 2004.

41. SCI(115) **Zhou, H**., and M. Murphy, Tomographic evidence for wholesale underthrusting of India beneath the entire Tibetan plateau, *Journal of Asian Earth Sciences*, 25/3, 445-457, 2005.

42. SCI (36) **Zhou, H**., Multiscale deformable-layer tomography, *Geophysics*, *71*, R11-R19, 2006.

43. SCI (8) **Zhou, H**., First-break vertical seismic profiling tomography for Vinton Dome, *Geophysics*, *71*, U29-U36, 2006.

44. Chen, R., **H. Zhou,** and H. Ge, Seismic array in North China, *J. Geodesy & Geodynamics*, *25/4*, 1-5, 2006.

45. SCI (5) Thornton*, M.P., and **H. Zhou**, Crustal-scale prestack depth imaging for 1994 and 1999 LARSE surveys, *Geophysical Prospecting*, *56*, 577-585, 2008.

46. SCI (2) Cao*, H., J. Xie, Y. Kim and **H. Zhou**, Multiscale migration tomography to constrain depth-imaging artifacts, *Geophysics*, *73*, VE217-VE222, 2008.

47. SCI (8) Zhang, S.X., Y. Wang, **H. Zhou**, and L.S. Chan, Dispersion splitting of Rayleigh waves in layered azimuthally anisotropic media, *J. Applied Geophysics*, *67*, 130-142, 2009.

48. (7) Li, P., **H. Zhou**, Z. Yan, and Y. He, Deformable layer tomostatics: 2D examples in western China, *The Leading Edge*, *28*(2), 260-264, 2009.

49. SCI (8) **Zhou, H.**, P. Li, Z. Yan, and H. Liu, Constrained deformable layer tomostatics, *Geophysics*, *74*, WCB15-WCB26, 2009.

50. SCI (5) **Zhou, H**., L. Li, T. Bjorklund, and M.P. Thornton, A comparative analysis of deformable layer tomography and cell tomography along the LARSE lines in southern California, *Geophys. J. Int.*, *180*, 1200-1222, DOI: 10.1111/j.1365-246X.2009.04472.x, 2010.

51. SCI (5) Liu*, H., **H. Zhou**, W. Liu, P. Li, and Z. Zou, Tomographic velocity model building of near surface with reversed-velocity interfaces: A test using the Yilmaz model, *Geophysics*, *75*, U39-U47, 2010.

52. SCI (4) Jiang*, F., and **H. Zhou**, Traveltime inversion and error analysis for layered anisotropy, *J. of Applied Geophysics*, *73*, 101-110, 2011.

53. SCI (2) **Zhou, H.**, On the layering artifacts in seismic imageries, *J. of Earth Science*, *22*, 182-194, DOI: 10.1007/s12583-011-0171-z, 2011.

54. SCI (12) Zou*, Z., **H. Zhou**, and W. Liao, Crustal and upper-mantle seismic reflectors beneath the Three Gorges Reservoir region, *J. of Earth Science*, *22*, 205-213, 2011.

55. SCI (3) Liu*, W., B. Zhao, **H. Zhou**, Z. He, H. Liu, and Z. Du, Wave-equation global datuming based on the double square root operator, *Geophysics*, *76*, U35-U43, 2011.

56. SCI (3) Zelt, C. A., S. Haines, M. H. Powers, J. Sheehan, S. Rohdewald, C. Link, K. Hayashi, D. Zhao, **H. Zhou**, B. L. Burton, U. K. Petersen, N. D. Bonal, and W. E. Doll, Blind test of methods for obtaining 2D near-surface seismic velocity models from first-arrival traveltimes, *J. Environmental & Engineering Geophysics*, *18*, 183-194, 2013.

57. SCI (4) Zou*, Z., **H. Zhou**, and H. Gurrola, Reverse-time imaging of a doublet of micro-earthquakes in the Three Gorges Reservoir region, *Geophys. J. Int.*, *196*, 1858-1868, DOI:10.1093/gji/ ggt499, 2014.

58. SCI Zou*, Z., **H. Zhou**, and H. Gurrola, Teleseismic virtual-source imaging of the basin structures in Three Gorges region, China, *BSSA.*, *104*, 2142-2147, DOI:10.1785/0120130110, 2014.

59. SCI (3) Zhang, J., T. Shi, Y. Zhao, and **H. Zhou**, Static corrections in mountainous areas using Fresnel-wavepath tomography, *J. of Applied Geophysics*, *111*, 242-249, 2014.

60. SCI Zou*, H., H. **Zhou**, and J. Zhang, Imaging upper crustal structure of the Three Gorges region via teleseismic virtual reflection profiling, *Chinese J. Geophys.*, *58*, 411-423, DOI: 10.6038/cjg20150206, 2015.

61. SCI Bian*, A., Z. Zou, **H. Zhou**, and J. Zhang, Evaluation of multi-scale full waveform inversion with marine vertical cable data, *J. of Earth Science*, *26*, 481-486, 2015.

62. SCI Gantela*, C., A. Bian, **H. Zhou**, and T. Bjorklund, De-masking multiple artifact in crustal seismic images from marine reflection data in southern California borderland, *J. of Earth Science*, *26*, 592-597, 2015.

63. SCI Huang*, W., and **H. Zhou**, Least-Square seismic inversion with stochastic conjugate gradient method, *J. of Earth Science*, *26*, 463-470, 2015.

64. SCI Zou*, Z., A. Bian, **H. Zhou**, J. Zhang, and L. Xing, An evaluation of reverse-time imaging of clustering earthquakes, *J. of Earth Science*, *26*, 548-555, DOI: 10.1007/s12583-015-0563-6, 2015.
65. SCI (16) Zhang, J., J. Shi, L. Song, **H. Zhou**, Linear traveltime perturbation interpolation: a novel method to compute 3-D traveltimes, *Geophys. J. Int.*, *203*, 548-552, DOI: 10.1111/j.1365-246X.2010.04909.x, 2015.
66. SCI Deng*, P., Y. Chen, Y. Zhang, and **H. Zhou**, Weighted stacking of seismic AVO data using hybrid AB semblance and local similarity, *J. Geophys. Eng.*, *13*, 152-163, DOI: 10.1088/1742-2132/13/2/152, 2016.
67. Jing*, H., **H. Zhou**, and A. Li, Quantification of the impact of seismic anisotropy in microseismic location, *International J. of Geosciences*, *7*, 884-890, DOI: 10.4236/ijg.2016.77065, 2016.
68. SCI Zou, Z., K. Liu, W. Zhao, H. Liu, **H. Zhou**, X. Meng, and Y. Li, Upper crustal structure beneath the northern South Yellow Sea revealed by wide-angle seismic tomography and joint interpretation of geophysical data, *Geological Journal*, *51*(S1), 108-122, DOI: 10.1002/gj.2847, 2016.
69. 邹志辉，张翊孟，卞爱飞，周华伟，倪宇东，李培明, 常规检波器数据低频的评价与恢复及在地震成像中的应用，石油地球物理勘探，51 (5): 841 – 849, 2016.
70. SCI Krupnik, D., S. Khan, U. Okyay, P. Hartzell, and **H. Zhou**, Study of diagenetic features in Upper Albian rudist buildups of the Edwards Formation using ground-based hyperspectral imaging and terrestrial laser scanning, J. of Sedimentology, *345*. 154-167, DOI: 10.1016/j.sedgeo.2016.09.008, 2016.
71. SCI Ding*, Y., Y. Zheng, **H. Zhou**, M. Howell, H. Hu, and Y. Zhang, Propagation of Gaussian Wave Packets in complex media and the application to fracture characterization, *Geophys. J. Int.*, **210**, 1244-1251, 2017.
72. SCI Yuan*, F., **H. Zhou**, Z. Meng, B. Gong, and F. Qiao, Multi-scale reflection layer tomography to estimate base-salt geometry, *J. of Applied Geophysics*, in review, 2017.
73. ? Sun, L., S. Khan, S. Sarmiento, M.R. Lakshmikantha, and H. Zhou, Ground-based hyperspectral imaging and terrestrial laser scanning for fracture characterization in the Mississippian Boone Formation, ???, in review, 2017.

REFEREED EXPANDED ABSTRACTS (77) (* STUDENT OR POSTDOC SUPERVISED)

1. 1991 Link*, C., J. A. McDonald, **H. Zhou**, and B. J. Evans, Cross-well tomography in a shallow clastic reservoir: 76 West field, south Texas, SEG Expanded Abstracts, *10*, 371-374, 1991.
2. 1991 **Zhou, H.**, How much velocity variation can be resolved by cross-well seismic traveltime tomography? SEG Expanded **Abstracts**, *10*, 813-816, 1991.
3. 1991 Yang*, T. W., **H. Zhou**, and O. G. Johnson, Nonlinear traveltime tomography with shortest path ray tracing, SEG Expanded Abstracts, *10*, 922-924, 1991
4. 1991 Mendoza*, J. A., **H. Zhou**, and J. A. McDonald, Estimating traveltimes from noisy cross-hole seismic data, SEG Expanded Abstracts, *10*, 1420-1423, 1991.
5. 1991 **Zhou, H.**, Seismic bodywave structures at convergent plate margins around the Pacific, invited abstract at the Freeman Gilbert Global Seismology Symposium, San Diego, CA, p.12.
6. 1992 Chen*, G., and **H. Zhou**, Waveform study using boundary element method, SEG Expanded Abstracts, *11*, 1300-1303, 1992.

7. 1993 Chen*, G., and **H. Zhou**, Detection of crack orientation using acoustic waves, SEG Expanded Abstracts, *12*, 1010-1013, 1993.

8. 1994 Chen*, G., and **H. Zhou**, Fast estimation of seismograms for 2D and 3D heterogeneous media, SEG Expanded Abstracts, *13*, 229-232, 1994.

9. 1995 Arbi*, N., J.A. McDonald, **H. Zhou**, D.A. Ebrom, and R.H. Tatham, A comparison of 3-D seismic time imaging results from physical model strike and dip acquisitions, SEG Expanded Abstracts, *14*, 953-956, 1995.

10. 1997 Wang*, H., and **H. Zhou**, A comparative study of some traveltime tomography methods, SEG Expanded Abstracts, *16*, 1862-1865, 1997.

11. 1997 **Zhou, H**., Determination of velocities and interfaces by multi-scale tomography, SEG Expanded Abstracts, *16*, 1877-1880, 1997.

12. 1998 Youn*, O. K., **H. Zhou**, and R. E. Sheriff, Structural effects on AVO: A modeling study, SEG Expanded Abstracts, *17*, 197-200, 1998.

13. 1998 Youn*, O. K., **H. Zhou**, S. Hall, and R. E. Sheriff, Post-critical angle AVO for carbonate reservoirs, 60th EAGE Conference and Exhibition, Leipzig, Exp. Abs., ??-??, 1998.

14. 1999 Youn*, O. K., and **H. Zhou**, Depth imaging with multiples, SEG Expanded Abstracts, *18*, 1182-1185, 1999.

15. 1999 Hou*, A., and **H. Zhou**, Multi-component depth imaging of a fluid-filled dome, SEG Expanded Abstracts, *18*, 1196-1199, 1999.

16. 1999 Hou*, A., and **H. Zhou**, Pseudospectral prestack depth imaging of common shot gathers, SEG Expanded Abstracts, *18*, 1473-1476, 1999.

17. 1999 Guo*, M., Hou, A., and **H. Zhou**, A 2-D comparison of Kirchhoff and full-wave migration, SEG Expanded Abstracts, *18*, 1552-1555, 1999.

18. 2000 Hou*, A., **H. Zhou**, and R. W. Wiley, Reverse VSP prestack depth migration with multiples, SEG Expanded Abstracts, *19*, 766-769, 2000.

19. 2000 Thornton*, M. P., and **H. Zhou**, Pre-stack depth migration of the 1994 LARSE survey over LA basin, SEG Expanded Abstracts, *19*, 898-901, 2000.

20. 2000 **Zhou, H.**, and A. Hou, A reverse VSP tomographic velocity analysis, SEG Expanded Abstracts, *19*, 1771-1774, 2000.

21. 2000 Zhuang*, D., Y. Xu, and **H. Zhou**, Seismic attributes optimizing analysis in predicting and monitoring reservoir, SEG Expanded Abstracts, *19*, 2158-2161, 2000.

22. 2001 Al-Rufaii*, K., **H. Zhou**., L. Lu, Tomographic velocity analysis in complex areas, SEG Expanded Abstracts, *20*, 748-751, 2001.

23. 2001 Al-Otaibi*, M., K. Marfurt, **H. Zhou**., F. Hilterman, and N. Kabir, Effect of velocity transition zones on the apparent polarization of ocean-bottom cable multicomponent data, SEG Expanded Abstracts, *20*, 1253-1256, 2001.

24. 2001 **Zhou, H.**, K. Al-Rufaii, J. Byun, and S. L. Roche, Retrieval of high-resolution components by deterministic deconvolution: A field example, SEG Expanded Abstracts, *20*, 1827-1830, 2001.

25. 2002 Pankhurst*, D., K. Marfurt, C. Sullivan, **H. Zhou,** Hilterman, F., and Gallaghar, J., Long Offset AVO in a Mid-Continent Tight Gas Sand Reservoir, SEG Expanded Abstracts, *21*, 297-299, 2002.

26. 2002 **Zhou, H**., Kirchhoff reflection tomography: Concept and preliminary result, SEG Expanded Abstracts, *21*, 953-956, 2002.

27. 2002 Hoelting*, C., W. Duncan, M. Gherasim, K. Marfurt, and **H. Zhou,** A preliminary study of salt flank illumination at Vinton Dome, Louisiana: Do we need lateral wavefield continuation? SEG Expanded Abstracts, *21*, 1368-1371, 2002. (**Best paper award**)

28. 2003 Lin*, Q., and **H. Zhou**, A study of long-offset seismic imaging, SEG Expanded Abstracts, *22*, 1154-1157, 2003.

29. 2003 Lapin*, S., S. Kisin, and **H. Zhou**, Joint VSP and surface seismic tomography, SEG Expanded Abstracts, *22*, 2342-2344, 2003.

30. 2003 **Zhou, H**., Deformable layer tomography and application to the Vinton Dome, SEG Expanded Abstracts, *22*, 2345-2348, 2003.

31. 2003 Kisin*, S., and **H. Zhou**, VSP tomography of Vinton Dome, Louisiana, SEG Expanded Abstracts, *22*, 2349-2352, 2003.

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103. 2015 Zou*, Z., **H. Zhou**, H. Liu, S. Tong, and J. Zhang, Fault patterns in the South Yellow Sea revealed by integrated geophysical observations, AGU Fall Meeting, San Francisco, Dec., 2015.

EXTERNAL SEMINARS SINCE 2012 (43)

#	Date	Location	Seminar Title | Meeting or Institute
1.	7/6/17	Huangdao, China	Advances of seismic imaging in solid Earth & exploration geophysics | Invited talk in Dept of Geophysics, China U of Petroleum
2.	7/2/17	Shenzhen, China	Reverse time migration: A prospect of seismic imaging | Invited talk at the IPACES annual meeting in SUSTech
3.	6/28/17	Hangzhou, China	Thoughts on improving the geologic interpretability of seismic images | Workshop on integration of geophysical data, Zhejiang University
4.	6/8/17	Chongqing, China	Seismic detection of fractures | Unconventional energy institute of Chongqing Bureau of Geology & Mineral Resources
5.	1/5/17	Zhuozhou, China	Mapping fractures using localized waves | Bureau of Geophysical Prospecting
6.	1/4/17	Zhuozhou, China	About UH/EAS and our research | Bureau of Geophysical Prospecting
7.	12/22/16	Qingdao, China	Unconventional petroleum seismic exploration | Ocean U. of China
8.	12/19/16	Wuhan, China	Mapping subducted slabs: What's next? | China U. of Geosciences, Wuhan
9.	7/3/16	Qingdao, China	Seismic mapping of subducting & subducted slabs | keynote talk at 2nd International Workshop on Seismic Imaging
10.	6/29/16	Qingdao, China	ABC of petroleum seismology | Two-hour class at Ocean U. of China
11.	6/28/16	Qingdao, China	Assessing earthquake risk of the Huangling Dome | Shandong University of Technology
12.	6/21/16	Qingdao, China	Frontier issues in marine geophysics • How to conduct research in geosciences | Ocean University of China
13.	6/18/16	Wuhan, China	A review of seismic imaging of subducted lithospheric slabs | invited talk at the IPACES annual meeting, Wuhan University.

14.	1/7/16	Qingdao, China	Unconventional petroleum seismic exploration • Geophysics career preparation | Ocean University of China
15.	12/31/15	Wuhan, China	Assessing earthquake potential of the Three Gorges Reservoir | Wuhan University.
16.	10/2/15	San Antonio, TX	A seismic study on the earthquake risk of the Three Gorges dam in central China | U of Texas, San Antonio
17.	6/23/15	Xiamen, China	Opportunities and challenges for marine seismic imaging | The 3rd Marine Geoscience Institute
18.	6/12/15	Chengdu, China	Assessing the maximum earthquake risk near the Three Gorges dam • Unconventional seismic imaging | Southwestern Petroleum Institute
19.	5/27/15	Qingdao, China	Seismic fidelity • Assessing earthquake potential of the Three Gorges Reservoir | Ocean University of China
20.	5/13/15	WesternGeco	Fidelity of seismic imaging: Signal versus artifact | Geophysical Society of Houston, Westside Technical Breakfast
21.	5/5/15	Anadarko Petro.	Fidelity of seismic imaging: Signal versus artifact | Geophysical Society of Houston, Northside Technical Breakfast
22.	3/19/15	Long Beach, CA	Earthquake potential of the Huangling Anticline, site of the Three Gorges Dam, China | California State University, Long Beach.
23.	12/30/14	Qingdao, China	Challenges in Seismic Imaging | China University of Petroleum, Qingdao.
24.	12/22/14	Wuhan, China	About UH/EAS & Unconventional Seismic Imaging | China University of Geosciences, Wuhan.
25.	12/19/14	Wuhan, China	Geo-training for an industry career & Petroleum seismology | Wuhan University.
26.	7/18/14	Zhuozhou, China	Intro to UH/EAS & Seismic imaging of conventional and unconventional hydrocarbons | Bureau of Geophysical Prospecting.
27.	7/9/14	Dongying, China	Intro to UH/EAS & Geophysics in exploring unconventional resources | Geophysical Research Institute of Shengli Oil Field.
28.	7/5/14	Qingdao, China	Challenges to geophysics from unconventional petroleum plays | International Workshop on Seismic Imaging.
29.	7/1/14	Beijing, China	Computational impact on the choices of signal and noise in seismic imaging | International Workshop on the Frontiers Computational Geodynamics 2014.
30.	6/20/14	Tianjin, China	The role of geophysics in exploring the resources, geohazards and nature of the Earth | Tianjin Chengjian University.
31.	6/10/14	Wuhan, China	Seismic imaging: Challenges and opportunities | Wuhan University.
32.	1/3/14	Qingdao, China	Utilization of low-frequency signals | Ocean University of China.
33.	12/23/13	Wuhan, China	Challenges in Academics & Micro-seismic determination | Wuhan University.
34.	11/18/13	Houston, TX	Intro to Sheriff Lecture Series & Status of UH/EAS | 15th Sheriff Lecture.
35.	6/7/13	Qingdao, China	Perspectives of geosciences research and OBS studies | Ocean University of China.

36.	5/23/13	Qingdao, China	Challenges & opportunities for marine seismic mapping | International Workshop on Origin and Evolution of Marginal Seas, CAS Institute of Oceanology.
37.	12/17/12	Shanghai, China	Assessing earthquake potential of the TGR region | Tongji University
38.	12/16/12	Beijing, China	Seismic methods for unconventional oil/gas reservoirs | International workshop on Seismic Rock Physics of Unconventional Petroleum Reservoirs.
39.	7/4/12	Guangzhou, China	Seismic potential of the Huangling Complex, site of the Three Gorges Dam | invited talk at the IPACES annual meeting, Sun Yat-Sen University.
40.	7/2/12	Guangzhou, China	My perspective on conducting "high-impact" geoscience research | invited talk at the summer graduate school of Sun Yat-sen University.
41.	4/14/12	Berkeley, CA	Reservoir induced seismicity in the Three Gorges region and its earthquake potential | invited talk at the UC Symposium on 'After Three Gorges- what Have We Learned', UC Berkeley.
42.	2/26/12	Dalian, China	On gas hydrates exploration and development: What can we learn from the shale gas experiences | Ministry of Science & Technology of China.
43.	1/6/12	Qingdao, China	Frontier topics in exploration geophysics | Two-hour seminar in the Institute of Marine Geosciences, Ministry of Land & Resource of China.

ADVISING

Post-docs & Associates (18):

#	Name	Time | Institute	Employer
1.	Hongwei Wang	1996 | UH	CUP Beijing, China
2.	Anning HOU	1998-2000 | UH	HIDY Petro-Tech
3.	Tom BJORKLUND	2001-2002 | UH	U. of Houston
4.	Joongmoo Byun	2005-2006 | UH	Hanyang University, Korea
5.	Zhangxiang HE	2006-2007 | UH	BGP, China
6.	Yi NI	2006-2007 | UH	Formally BGP, China
7.	Jianzhong ZHANG	2008-2010 | TTU	Ocean U. of China
8.	Wenge LIU	2008-2010 | TTU	SW Petroleum U., China
9.	Peiming LI	2010-2012 | TTU	BGP, China
10.	Yimeng ZHANG	2011-2013 | TTU	BGP, China
11.	Zhihui ZOU	2012-2014 | TTU	Ocean U. of China
12.	Aifei BIAN	2013-2014 | UH	CUG Wuhan, China
13.	Jin ZHANG	2013-2014 | UH	Ocean U. of China
14.	Xinwu HUANG	F2013-F2014 | UH	CUG Beijing, China
15.	Yudong NI	S2014-F2014 | UH	BGP, China
16.	Yu ZHANG	S2015-F2015 | UH	Wuhan U., China
17.	Baoqing ZHANG	S2015-S2016 | UH	BGP, China
18.	Wei SONG	F2015-F2016 | UH	CUP Beijing, China

Ph.D. Dissertations (37):

Name (University), Year	Research Topic
1. Curtis A. Link (UH), 1993	Crosshole seismic analysis for reservoir characterization & lithology indication
2. Hongwei Wang (UH), 1994	Analysis of ISC P-wave data and applications to the inference of velocity structure in the mantle
3. Stephen T. T. Ha (UH), 1994	Benefiting from directional phase-encoded wavefield: Experimental and theoretical implementation of Neidell-dolphin concept
4. Genmeng Chen (UH), 1995	Seismic modeling and imaging of heterogeneous media
5. Marcos Guimaraes (UH), 1998	Phys. model study of seis. acquisition and processing of vertical cable data
6. Oong Koo Youn (UH), 1998	AVO modeling and depth imaging with multiples
7. Khalid Al-Rufaii (UH), 2002	Seismic tomography in areas associated with complex near-surface structures
8. Mohammed Al-Otaibi (UH), 2002	Thin-bed AVO
9. Warren Duncan (UH), 2005	Integrated geophysical study of Vinton Dome, LA
10. Mike P. Thornton (UH), 2006	Depth imaging of crustal scale seismic reflection surveys in Southern California
11. Alex Zhao (UH), Spring 2007	Classification detection of reservoir fluids with rock physics constraints
12. Li Li (UH), Spring 2007	Mapping 3D crustal velocities of S. California by deformable layer tomography
13. Hongmei Cao (UH), Fall 2008	Reflection attenuation tomo. and ray count weighted multi-scale tomography
14. Hui Liu (TTU), summer 2010	Multiscale deformable layer tomography for near-surface velocity model building
15. Fan Jiang (TTU), Fall 2010	Waveform modeling, migration and tomographic analysis of seismic anisotropy
16. Aifei Bian (CUG), summer 2011	Theory and application of full waveform inversion in reflection seismology
17. Bao Mei (CUG), summer 2011	Research on crustal structure from tomography in the Three Gorges reservoir head area
18. Zhihui Zou (TTU), summer 2012	A seismologic study of the Three-Gorges Reservoir (TGR) region, China
19. Chris GANTELA (UH), Spring 2015	Analysis of Geophysical Evidence for Cretaceous-Paleocene Forearc Strata in the Santa Catalina Basin, California Inner Continental Borderland
20. Fang YUAN (TTU F10, UH F12), Spring 2015	Multi-scale deformable layer reflection tomography using residual moveout from ODCIG
21. Fengfan WANG (OUC, co-advisor: Dr. Huaishan Liu), S15	A study on simulation and survey design for marine 3D airgun arrays
22. Wei HUANG (UH S14-F15), Fall 2015	Mapping subsurface structures by least-squares inversion of seismic data
23. Hemin Yuan (UH, co-advisor: Dr. De-hua Han), Fall 2015	Heavy oil sands modeling during thermal production and its seismic response

24. Hui Li (UH, co-advisor: Dr. De-hua Han), Fall 2015	Effects of microstructure on the elastic properties of sedimentary reservoir rocks and its seismic implication
25. Fuyong Yan (UH, co-advisor: Dr. De-hua Han), Fall 2015	Analysis of seismic anisotropy parameters for sedimentary rocks and strata
26. Pan DENG (TTU F11, UH F12), Fall 2015	Theory and application of weighting functions in seismic velocity analysis and post-stack noise attenuation
27. Hongli JING (UH), S13-	Microseismicity: Impact of velocity anisotropy
28. Xinwei HUANG (UH), F13-	Seismic-well-tie for deviated wells
29. Linwei LI (OUC, co-advisor: Dr. Siyou Tong), S14-	Marine seismic data processing
30. Ali Al JADHER (UH), F14-	Fracture Characterization of a Sandstone Reservoir in Saudi Arabia using Full-Azimuth Angle Domain Imaging and AVAZ inversion
31. Pongthep THONGSANG (UH), S14-	(Pre-proposal) Seismic analysis of thin-bed reservoirs in Gulf of Thailand and GOM
32. Jianglong Zheng (OUC, co-advisor: Dr. Siyou Tong), F15-	Marine seismic data processing and imaging
33. Yinshuai Ding (UH), S13-	(Pre-proposal) Improving marine seismic acquisition and imaging via analyzing target-oriented seismic illumination
34. Yukai Wo (UH), F16-	3D tomostatics
35. Zhili Wei (UH), S13-	(Pre-proposal) Double-difference hypocentral determination and deformable-layer tomography in Southern California
36. Zhonghan Liu (UH), F13-	(Pre-proposal) A study on reverse time seismic migration
37. Boming Wu (UH), S17-	TBA

M.S. Theses (34):

Name (University), Year	Research Topic
1. Jorge Mendoza (UH), 1991	Enhanced arrival time picking in high frequency transmission tomography
2. Hongwei Wang (UH), 1992	A noise elimination method applied to multi-component or multi-trace seismic data
3. Genmeng Chen (UH), 1992	Two-dimensional waveform analysis using the boundary element method
4. Ning Guo (UH), 1993	Improvement of kinematic raytracing in crosswell traveltime tomography
5. Zhijiang Luo (UH), 1996	A study of hypocentral determination at teleseismic distances
6. Mark Quakenbush (UH), 1998	Pre-NMO static estimation
7. Chungfeng Li (UH), 1998	Plan II M.S.: A gravitational study of southern California based on tomographic P and S-wave velocities
8. Hector Alfonzo (UH), 2000	Seismic imaging and analysis over Columbian foothills
9. Sangmyung Kim (UH), 2000	P- and S-wave velocity structures of the Sigsbee abyssal plain of the Gulf of Mexico from ocean bottom seismometer data
10. Alex Zamoruyev (UH), 2000	Automatic picking of seismic events
11. Halit Alhan (UH), 2002	Extrapolating high resolution component with deconvolution
12. Qingliang Lin (UH), 2003	A study of long-offset seismic imaging with an upgraded physical modeling system

13. Sonja Kisin (UH), 2003	Tomographic Velocity Model Building: Application to Vinton Dome VSP Data
14. John Kimbro (UH), 2004	A case study of prestack depth migration of Vinton Salt Dome, LA
15. Nebojsa Pralica (UH), 2005	A revisit of tomostatics by deformable layer tomography
16. Jose Omana (UH), Spring 2007	An assessment of prestack migration velocity analysis using angle gathers
17. Taehyeong Lee (UH), Spring 2007	Analysis of hydrocarbon potential in the continental margin of Korea
18. Milos Cvetkovic (UH), Spring 2007	A study on wavelet based noise suppression methods
19. Ching-Wen Chen (UH), Spring 2007	Analyzing the resolvability of crustal and mantle velocity features beneath Tibet
20. Mike Frismanis (UH), Spring 2007	Numerical simulation as a tool for assistance in data analysis method
21. Fang Yuan (TTU), Fall 2012	P-wave Deformable Layer Tomography for Crustal Structure of Salton Trough
22. Armando Sosa (UH), Fall 2012	Assessment of azimuthal variations in depth migrated marine wide-azimuth data: Workflow derivation and example from the East Breaks Quadrant of the GOM
23. Luchen Li (TTU), Summer 2013	Investigating MOHO structure in Basin and Range area and Colorado Plateau using Receiver Functions *(advised by Dr. Harold Gurrola after Zhou's leaving of TTU)*
24. Sercan Pisen (TTU,UH), Spring 2014	Reservoir characterization via amplitude versus offset analysis (AVO) and impedance inversion, Thrace Basin, Northwestern Turkey
25. Zi Wang (UH), Spring 2014	Target formation pore pressure prediction using Fillippone approach for VSP and 3D seismic data in southern Sichuan, China
26. Annaliese Lee Seyon (UH), F13- Summer 2015	Analysis of seismic illumination via ray-tracing and finite difference modeling: A case study of a complex salt related field in the Gulf of Mexico
27. Yukai Wo (UH), F13-Summer 2015	2D deformable-layer tomostatics in Sichuan, China
28. Keling CHEN (UH), S14-Fall 2015	Plan II Capstone: Sensitivity tests of seismic migration with respect to different velocity models and Sigsbee2a model dataset
29. Gökhan ALKIR (UH), Spring 2016	Seismic imaging and velocity model building in the Thrace region, Northwestern Turkey: A case study
30. Fei MA (OUC, co-advisor: Dr. Jianzhong Zhang), S2017	The method for picking the attributes of seismic events and software design
31. Fansheng Lin (OUC, co-advisor: Dr. Zhihui Zou), S2017	Upper crustal structures beneath Anqiu-Juxian segment of Tan-Lu fault zone revealed by teleseismic tomography
32. Shuhang TANG (UH), F14-	A study of the topographic effect on wave-equation datuming
33. Po-Hsu CHEN (UH), F16-	TBD
34. Dylan Wiemer (UH), F14-	Field microseismicity study

Other Graduate Research Committees

Since 1990 served in numerous PhD and MS committees in University of Houston, Texas Tech University, University of Edinburgh, Hong Kong University, China University of Geosciences, and Ocean University of China.