

CURRICULUM VITAE

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Present Position: Senior Lecturer
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Academic Qualifications & Awards:

- B.Eng. (Hons.1), Wuhan Technical University of Surveying & Mapping, 1985
- M.Sc., Institute of Seismology, 1988
- Ph.D., University of New South Wales, 2001
- President's Special Award, Kochi Women's University, Japan, 2003
- Postdoctoral Fellowship, Australian Research Council, 2002-2004.
- Best Tutor Prize, School of Geomatic Engineering, UNSW, 2001.
- Best Student Paper Award, the U.S. Institute of Navigation, 1999.
- International Postgraduate Research Scholarship (IPRS), Commonwealth of Australia, 1998-2000.
- Postdoctoral Fellowship, the Science & Technology Agency, Japan, 1997-1998.
- Second Class Scientific and Technological Progress Award, Institute of Seismology, P.R. China, 1995.
- Outstanding Young Researcher Award, China Seismological Bureau, P.R. China, 1994.
- Best Paper Award, China Seismological Bureau, P.R. China, 1992.
- Best Paper Award, China Seismological Bureau, P.R. China, 1991.
- Best Paper Award, Science & Technology Committee, Hubei Province, P.R. China, 1990.
- University Medal, Wuhan Technical University of Surveying & Mapping, P.R. China, 1985.

Brief Biography:

- 2004- Senior Lecturer, University of New South Wales, Australia.
- 2004- Project Leader and Senior Research Fellow, Cooperative Research Centre for Spatial Information, Australia.
- 2005- Research Fellow, Institute of Space and Earth Information Science, Chinese University of Hong Kong
- 2002-2003 ARC Research Fellow, The University of New South Wales, Australia.
- 2000-2001 Postdoctoral Research Associate, The University of New South Wales, Australia.

- 1998-2000 Teaching and Research Assistant, the SNAP server administrator, The University of New South Wales (UNSW), Australia.
- 1997-1998 Postdoctoral Fellow, Meteorological Research Institute (MRI), Japan.
- 1994-1997 Associate Professor and supervisor for Master's degree candidates, Leader of the Computer-based Instrumentation Group, Institute of Seismology, China Seismological Bureau, P.R. China.
- 1991-1994 Research Associate, Institute of Seismology, China Seismological Bureau, P.R. China.
- 1988-1991 Research Assistant, Institute of Seismology, China Seismological Bureau, P.R. China.

Professional & Scientific Duties:

Member of Professional Societies:

- 2005- New South Wales Representative on the National Committee of the Remote Sensing and Photogrammetry Commission of the Spatial Sciences Institute (SSI, Australia)
- 2005- Member and Treasurer of the New South Wales Regional Committee of the Spatial Sciences Institute (SSI, Australia)
- 2004- Foundation Member, SSI (the Spatial Sciences Institute, Australia)
- 2003- Co-chair, Sub-Commission 4.4 “Applications of Satellite and Airborne Imaging Systems” of the International Association of Geodesy (IAG)
- 2002- Member, IEEE (the Institute of Electrical and Electronics Engineers, Inc.)
- 2002- Life Member, AGU (the American Geophysical Union)
- 2002- Member, IEEE Communications Society
- 2001- Member, the Calibration and Validation Group for the ENVISAT Radar Satellite, the European Space Agency.
- 2001- Member and regional Director (Australia and New Zealand), the International Association of Chinese Professionals in Global Positioning Systems (CPGPS)
- 1999 - 2003 Member, Special Study Group (SSG) 2.183 on "Radar Interferometry Technology" within the IAG Section II "Advanced Space Technology".
- 1999- Member, U.S. Institute of Navigation.
- 1997- Member, InSAR Research Association, Japan.
- 1997- Member, Seismological Society of Japan.
- 1988- Member, Seismological Society of China.
- 1988- Member, Chinese Association for Disaster Prevention.
- 1988- Member, Chinese Society of Surveying and Mapping.

Member of Editorial Board:

- International Journal of Applied Geodesy
- Journal of Geodesy and Geodynamics
- Journal of Remote Sensing

Reviewer – journals:

- IEEE Transactions on Geoscience and Remote Sensing

- IEEE Geoscience and Remote Sensing Letters
- Journal of Geodesy
- International Journal of Remote Sensing
- GPS Solutions
- Earth, Planets and Space
- Journal of Geodesy and Geodynamics
- Survey Review
- Journal of Atmospheric and Solar-Terrestrial Physics

Reviewer – Conference Proceedings:

- 2005 Dynamic Planet Conference in Cairns, Australia
- 2005 Spatial Science Conference in Melbourne, Australia
- 2003 IUGG General Assembly in Japan

Member of Conference Planning Committee:

- The Australian Bid Committee for IAG (International Association of Geodesy) 2005 Conference
- Advanced International Workshop on InSAR for Measuring Topography and Deformation of the Earth Surface, December 16-17, 2002, Hong Kong.

Research Student Supervision:

Supervision of research graduate students (total since 2001): 4 candidates for PhD (presently under direct supervision).

Research Grants:

Recent research projects:

- Canadian Space Agency SOAR - Science and Operational Applications Research (2007-2008) “ Ground movement monitoring in Australia using Radarsat-2”
- Hebei Provincial Agency of Land and Resources (2006-2008) “Experimental Project on Monitoring Illegal Underground Mining Activities with Satellite Radar Interferometry”
- Australian Coal Association Research Program (ACARP) (2006-2007) “Effects of Surface Topography on Mining Subsidence Damage to River Channels”
- Hong Kong Research Grants Council grant (2006) “A Study on the GIS-Based near Real-Time Radar Interferometry for Monitoring the Surface Subsidence of a Mining Area”
- UNSW Research Infrastructure Block Grant (RIBG) (2006) “An Infrastructure for Investigating the Systems and Networking Challenges in Realizing Sensor Network Applications”
- Cooperative Research Centre for Spatial Information (CRCSI) grant (2005-2006) “Airborne Laser Scanner and Radar Interferometry for Digital Topographic Modelling in Coastal Environments of NSW: Wollongong LGA”;
- UNSW Faculty Research Grant (2005) “POLInSAR: Polarimetric SAR Interferometry”
- Australian Defense Force Academy (ADFA) and Faculty of Engineering UNSW

Collaborative Research Initiative (2005) “Quantitative Land Cover Change Monitoring Using Optical and Microwave Remote Sensing Data”

- European Space Agency, CAT-1 (2005-2007) " InSAR derived crustal deformation of Mani(Tibet) earthquake and the triggering relation with Ms8.1 Kunlun (Tibet) earthquake"
- Cooperative Research Centre for Spatial Information (CRC-SI) grant (2004-2007) “Digital elevation model generation and differential interferometric synthetic aperture radar (InSAR)”;
- ARC-Linkage grant (2004-2007) “Real-time atmospheric modelling for centimetre-level positioning based on Global Navigation Satellite System (GNSS) continuously operating reference station networks”;
- UNSW – RIBG grant (2004) “Equipment (Software and Hardware) Support for New Research Direction: Radar Remote Sensing”;
- European Space Agency, CAT-1 (2004-2006) "Study on Crustal Deformation and Mechanism of Strong Earthquake Swarm in Jiashi Area of Xinjiang Province, China Using GPS and InSAR Technology”;
- ARC-Linkage International grant (2003-2004) “An Integrated Ground Deformation Monitoring System Based on the Integration of InSAR, GPS and GIS Technologies”
- UNSW-FRG grant (2003-2004) “Automated Intelligent Building Monitoring with Multi-Sensor GPS, Accelerometer, and FBG Systems”;
- UNSW-FRG grant (2003) “Generation of High Accuracy and High Resolution Digital Elevation Models Using Multi-modal Satellite Radar Interferometry”;
- Geoscience Australia grant (2003) “Generation of a Differential Radar Interferogram of the Burakin Area, Western Australia, Using Satellite Radar Data”;
- ARC Discovery grant (2002-2004) "Integrated GPS and Interferometric SAR Techniques for Ground Subsidence Monitoring”;
- Australian Coal Association Research Program (ACARP) grant (2002-2003) “Monitoring Ground Subsidence Due To Underground Mining Using Integrated Space Geodetic Techniques”;
- European Space Agency grant (2001-2004) “Integrated interferometric SAR and GPS techniques for ground subsidence monitoring”;
- ARC Small grant (1999) “Terrain Monitoring by Differential SAR and GPS”.

Research Interests:

- Interferometric synthetic aperture radar (InSAR).
- Kinematic interpretation of CORS data (the so-called “ GPS seismometers”).
- Analysis of single-frequency GPS observations with the aid of dual-frequency GPS data.
- Structural health monitoring using GPS and optical fibre sensors.
- GPS meteorology.

Teaching Interests:

- Surveying for Mining Engineers
- Surveying for Civil Engineers

- Electronic Surveying Instrumentation: Principles and Practice
- Principles of Remote Sensing
- Microwave Remote Sensing
- Photogrammetry and Remote Sensing
- Global Navigation Satellite Systems (GNSS)

Consultancies:

Contract research projects to industry and government agencies: GPS-InSAR investigations for ground displacement monitoring; Continuous GPS data analysis; Structural health monitoring systems.

Publications:

Several publications and conference papers in the areas of radar interferometry, satellite geodesy and GPS (view full list at <http://www.gmat.unsw.edu.au/LinlinGe/Publication> or http://www.gmat.unsw.edu.au/snap/about/publications_author.htm).