

Dr. Chunzeng Wang's CV

Associate Professor in Geology, Environment, and GIS
College of Arts and Sciences
University of Maine at Presque Isle
e-mail: chunzeng.wang@umpi.edu

EDUCATIONAL BACKGROUND

- Ph. D.** – Earth and Environmental Sciences Program at the Graduate Center of the City University of New York (CUNY) (10/2001).
M. Phi. – Earth and Environmental Sciences Program at the Graduate Center of the City University of New York (CUNY) (10/2000).
M. S. – Geology, China University of Geosciences (China; 6/1989).
B. S. – Geology, Guilin College of Geology (current Guilin University of Technology, Guilin, China; 7/1984)

EMPLOYMENT HISTORY (ACADEMIC EXPERIENCE)

- Associate Professor** (3/2010-present; tenured). University of Maine at Presque Isle.
Assistant Professor (8/2005-3/2010). University of Maine at Presque Isle.
Assistant Professor (full-time in fixed term; 8/2002-8/2004). Department of Geology and Geography, Hunter College (CUNY), 695 Park Avenue, New York, NY10021.
Adjunct Assistant Professor (1/2002-8/2002; 9/2004-6/2005) and **Adjunct Lecturer** (1/2001-12/2002). Department of Geography, Hunter College (CUNY), 695 Park Avenue, New York, NY10021.
Adjunct Assistant Professor (9/2004-6/2005). School of Earth and Environmental Sciences, Queens College (CUNY), 65-30 Kissena BLVD, Flushing, NY11367.
Adjunct Lecturer (8/1997-6/2001). School of Earth and Environmental Sciences, Queens College (CUNY), 65-30 Kissena BLVD, Flushing, NY11367.
Associate Professor (12/1992-8/1997; tenured). Department of Geology, Guilin University of Technology, Guilin, Guangxi 541004, China.
Instructor (6/1989-12/1992) and **Assistant Instructor** (7/1984-6/1989). Department of Geology, Guilin College of Geology (current “Guilin University of Technology”), Guilin, Guangxi 541004, China.

OTHER ACADEMIC EXPERIENCES

- Visiting Professor** (10/1994-9/1995). Department of Earth and Environmental Sciences, Queens College (CUNY), 65-30 Kissena BLVD, Flushing, NY11367.
Visiting Professor (4/1993-10/1994). Department of Geology and Geography, University of Colorado at Denver, Denver, Colorado 80217.

Senior Geologist (Consulting) and Translator (10/1996-5/1997). Temporarily hired by Western Australian Mining Co. (WMC) for its Xinjiang, China gold exploration project.

HONORARY AWARDS

- ***Inaugural Zillman Professorship*** awarded by the University of Maine at Presque Isle in 2013
- ***Honorary Research Associate*** at the Department of Earth Sciences, awarded by University of New Brunswick, Canada in fall 2013 for a three-year term.
- ***External Consultation Expert*** for a national project at the China Geological Survey Center for Development of Research since 2011.
- ***Trustee Professorship*** awarded by the University of Maine System Board of Trustees in 2011
- ***Short-term Research and Workshop Award for Overseas Chinese Scholars*** awarded by China National Natural Science Foundation with a total of ¥16,000 in 2006.

PROFESSIONAL ORGANIZATION MEMBERSHIPS

- Member of the Geological Society of China (GSC) since 1989
- Member of the Geological Society of America (GSA) since 1997
- Member of the Geological Society of Maine (GSM) since 2005
- Member of the Maine GIS Users Group (MEGUG) since 2005
- Member of the American Geophysical Union (AGU) since 2008

UNIVERSITY AND COMMUNITY SERVICES

- Serving on UMPI's Faculty Development Committee (also Sabbatical Committee) by representing the College of Arts and Sciences since January 2012
- Serving on UMPI's Distinguished Lecturer Series Committee by representing the science and math programs since August 2008.
- Serving on the International Appalachian Trail (IAT) Board of Directors since May 2012.
- Serving on Maine GIS Consortium Board (also called MGCP6 - Maine Geospatial Curriculum Project) by representing the University of Maine at Presque Isle.
- Serving on Aroostook Outdoors board by representing UMPI since 2009.
- In spring 2013, I was invited and appointed to be one of three "External Reviewers" to perform external review of the University of Southern Maine's Geoscience Department programs.

ACADEMIC INTERESTS

- Structural geology and tectonics, economic geology (precious and base metals), environmental geology and geologic hazards.
- GIS (geographic information systems) and GIS applications in geology and environmental problems.

PEER-REVIEWED PUBLICATIONS

- Xiaofeng Li, **Chunzeng Wang**, Wei Mao, Qinghong Xu, and Yaohui Liu, 2014. W-Mo mineralization during main-phase India-Asia collision: example from Hahaigang W-Mo polymetallic skarn deposit of Gangdese Tectono-Magmatic Belt of Tibet. *Ore Geology Review*, 58, p. 27-40.
- Zuohai FENG, Zhiqiang KANG, Feng YAN, Jiafei LIAO, and **Chunzeng Wang**, 2013. Geochronology of the Limu W-Sn-Nb-Ta-bearing granite pluton in South China. *Resource Geology*, Vol. 63, No. 3, p. 320-329.
- Zuohai Feng, **Chunzeng Wang**, Minghua Zhang, and Jincheng Liang, 2012. Unusually dumbbell-shaped Guposhan-Huashan twin granitic plutons in Nanling Range of south China: discussion on their incremental emplacement and growth mechanism. *Journal of Asian Earth Sciences*, 48, p. 9-23.
- Zuohai Feng, **Chunzeng Wang**, et al., 2011. The emplacement mechanisms and growth styles of the Guposhan-Huashan batholith in western Nanling Range, South China. *Science China – Earth Sciences*, V. 54, No. 1, p. 45-60.
- Xiaofeng Li, **Chunzeng Wang**, Renmin Hua, and Xinglin Wei. 2010. Fluid origin and structural enhancement during mineralization of the Jinshan orogenic gold deposit, south China. *Mineralum Deposita*, v. 45, no. 6, p. 583-597.
- Xiaofeng Li, Zuohai Feng, **Chunzeng Wang**, Rongshen Li, and Zhuanghong Tang. 2010. Molybdenite Re-Os and zircon SHRIMP U-Pb dating at the Baishiding deposit, Guoposhan district: new evidence for Silurian Mo mineralization in south China. *Resource Geology*, vol. 60, No. 3, p. 260-270.
- Yuexia Dong, Long Xiao, Haimin Zhou, **Chunzeng Wang**, Jianping Zheng, Ning Zhang, Wenchen Xia, Qian Ma, Jingxia Du, Zhongxin Zhao, and Hongxiang Huang, 2010. The Tertiary Evolution of the Prolific Nanpu Sag of Bohai Bay Basin, China: Constrains from Volcanic Records and Tectono-stratigraphic Sequences. *Geological Society of America Bulletin*. v. 122, No. 3-4, p. 609–626.
- Yuexia Dong, Long Xiao, Haimin Zhou, Jingxia Du, Ning Zhang, Huang Xiang, **Chunzeng Wang**, Zhongxin Zhao, and Hongxiang Huang, 2010. Volcanism of the Nanpu Sag in the Bohai Bay Basin, eastern China: geochemistry, petrogenesis, and implications for tectonic setting. *Journal of Asian Earth Sciences*, Vol. 39, p. 173-191.
- Wang Chunzeng**, Li Xiaofeng, and Yi Xiankui, 2009. Gold Mineralization During Progressive Shear in Jinshan Ductile Shear Zone, Jinshan Gold Deposit, Jiangxi Province: Evidence from Microscopic Deformation Structures. *Journal of Guilin University of Technology*, Vol. 29, No. 2, p.169-182. (In Chinese with English abstract)
- Long Xiao and **Chunzeng Wang**, 2009. Geologic features of Wudalianchi volcanic field, northeastern China: Implications for Martian volcanology. *Planetary and Space Science*, Vol. 57, No. 5-6, p.685-698.
- Feng Zuohai and **Wang Chunzeng**, 2009. A review of granite magma ascent and emplacement mechanisms and their relation to mineralization processes. *Journal of Guilin University of Technology*, Vol. 29, No. 2, p. 183-194. (In Chinese with English abstract)
- Feng Zuohai, Liang Jincheng, **Wang Chunzeng**, Li Xiaofeng, Zhang Guilin, and Shi Guodong, 2009. Systematic strain measurement and analysis of Mesozoic Guposhan-Huashan granitic batholith and its thermal contact metamorphic zone, western Nanling. *Acta Geologica Sinica*, Vol. 83, No. 4, p.528-541. (In Chinese with English abstract)
- Haimin Zhou, Long Xiao, Yuexia Dong, **Chunzeng Wang**, Fangzheng Wang, Pingze Ni, 2009. Geochemical and geochronological study of the Sanshui basin bimodal volcanic rock suite, China: Implications for basin dynamics in southeastern China. *Journal of Asian Earth Sciences*, Vol. 34, No. 2, p.178-189.

- Li Xiaofeng, **Wang Chunzeng**, Yi Xiankui, Feng Zuohai, Wang Yitian, 2007. Deformation Structures at Various Scales and Their Roles during Gold Mineralization at Jinshan Gold Deposit, Jiangxi Province. *Geological Review*, 53(6): 774-782. (In Chinese with English abstract)
- Long Xiao, **Chunzeng Wang**, Franco Pirajno, 2007, Is the underthrust Indian lithosphere split beneath the Tibetan plateau? *International Geology Review*, V. 49, No.1, p. 90-98.
- Xiaofeng Li, Yasushi Watanabe, **Chunzeng Wang**, Hideo Hirano, and Yan Zhang, 2007. The age of the Donghai rock crystals (clear quartz), eastern China: constraint from biotite Ar-Ar geochronology. *Bulletin of the Geological Survey of Japan*, Vol.58 No.1/2, p.1-6.
- Chunzeng Wang**, Allan Ludman, Long, Xiao, 2006. A transect across the Norumbega Fault System and fault-controlled post-Acadian redbeds and post-redbeds Turner Mountain syenite, east of Old Town. In Gibson, D., Daly, J., and Reusch, D., eds., Guidebook for Field Trips in Western Maine: *New England Intercollegiate Geologic Conference Guidebook*. V.98, p.57-75.
- Li Xiaofeng, Mao Jingwen, **Wang Chunzeng**, and Yasushi Watanabe, 2006. The Daduhe gold district on the eastern margin of Tibetan Plateau: He, Ar, S, O and H isotopic data and their metallogenic implications. *Ore Geology Review*, V. 30, Issue 3-4, p.244-256.
- Xiao-Feng Li, Wen Chen, Jing-Wen Mao, **Chun-Zeng Wang**, Gui-Qing Xie, Zuo-Hai Feng, 2006. $^{40}\text{Ar}/^{39}\text{Ar}$ Dating of Sericite from Altered Dacite Porphyry and Quartz Porphyry in Yinshan Polymetallic Deposit of Jiangxi Province and Its Geological Significance. *Mineral Deposits*, v. 25, no. 1, p.17-26. (In Chinese with English abstract)
- Li Xiaofeng, **Wang Chunzeng**, Mao Jingwen, Hua Renmin, Liu Yaming, Xu Qinghong, 2005. Kübler Index and K-Ar Ages of Illite in Yinshan Polymetallic Deposit, Jiangxi Province, South China: Analyses and Implications. *Resource Geology*, Vol. 55(4), p. 397-404.
- Wang, C.**, and Ludman, A., 2004. Deformation conditions, kinematics, and evolution of shallow crustal ductile shearing in the Norumbega Fault System in the Northern Appalachians, Eastern Maine. *Tectonophysics*, vol. 384, p. 129-148.
- Wang, C.**, and Ludman, A., 2003. Evidence for post-Acadian through Alleghanian deformation in eastern Maine: multiple brittle reactivation of the Norumbega fault system. *Atlantic Geology*. V.38, p. 37-52.
- Li Xiao-feng, Hua Ren-min, Mao Jing-wen, Ji Jun-feng, and **Wang Chunzeng**, 2003. A study of illite Kübler indexes and chlorite “crystallinities” with respect to shear deformation and alterations, Jinshan gold deposit, east China. *Resource Geology*, vol. 53, no. 4, p. 283-292
- Zhang, M., and **Wang, C.**, 2002. Extensional tectonics and ore control in Huguqi ore area of Inner Mongolia. *Guangxi Sciences*, V. 9, No. 3, p. 188-192, 197. (in Chinese with English abstract)
- Liang, J., Feng, Z., Zhang, G., Xu, J., and **Wang, C.**, 2002. Oriented structures in Yuechengling granite pluton. *Geology and Mineral Resources of South China*, No.3 (Sum 71), p. 29-36. (in Chinese with English abstract)
- Wang, C.**, Lin, J., and Dai, K., 2001. Geology and structural controls of the Twin Peaks epithermal gold deposit, East Junggar, Xinjiang, China. *Mineralium Deposita*. Springer-Verlag, V.36, No.5, p.458-464.

- Zhang, M., and **Wang, C.**, 2001. The ore-controlling structural features of Hugeqi ore field in Langshan mountain of Inner Mongolia. *Journal of Guilin Institute of Technology*, V. 21, No.1, p. 62-67. (in Chinese with English abstract)
- Feng, Z., Liang, J., Li, X., and **Wang, C.**, 2001. Genetic types and distributive characters of karst collapses in Guilin urban and suburban area, Guangxi Province. *Journal of Natural Hazards*, v.10, No.3, p.92-97. (in Chinese with English abstract)
- Ludman, A., **Wang, C.**, Gibbons, S., Idelman, B., and Rasbury, T., 2000. Geometry and timing of multiple faulting events in the Kelleyland fault zone (Norumbega fault system) in the Fletcher Peak-Wabassus Mountain area, eastern Maine. In Yates, M., Lux, D., and Kelly, J., eds., *Guidebook for field trips in coastal and east-central Maine: New England Intercollegiate Geologic Conference Guidebook*. V.92, p.1-22.
- Ludman, A., Lanzirotti, A., Lux, D., and **Wang, C.**, 1999. Constraints on timing and displacement of multiple shearing in the Norumbega fault system, eastern Maine. In Ludman, A., and West, D., eds., *Norumbega Fault System of the Northern Appalachians; Geological Society of America Special Paper 331*, p.179-194.
- Wang, Chunzeng** and Zhang, Minghua, 1996. Mantle-derived mafic sheets: their contributions to the forming of some stratiform copper deposits and metallogenic processes. *Journal of Guilin Institute of Technology*, v.16, No.4, p.344-352. (in Chinese with English abstract)
- Wang, Chunzeng** and Zhang, Minghua, 1996. Reestablishing stratigraphic sequence of Langshan Group and the determination of Hogeqi overturned composite syncline, Inner Mongolia. *Geotectonica et Metallogenia*, v. 20, No.3, p.212-219. (in Chinese with English abstract)
- Wang, Chunzeng**, 1996. Deformation partitioning and continental tectonics. *Geologic Science and Technology Information*, v. 15, No.2, p.40-44. (in Chinese with English abstract)
- Li, Lanrong and **Wang, Chunzeng**, 1996. Classification and multi-grain quartz ribbons in mylonites and their development. *Journal of Guilin Institute of Technology*, v.16., No.4, p.301-311. (in Chinese with English abstract)
- Liang, Jincheng, Zhang, Guilin, and **Wang, Chunzeng**, 1995. The study of meta-basic ultrabasic rocks in the Proterozoic Danzhou Group, northern Guangxi; A new view. *Geotectonica et Metallogenia*, v.19, No.1, p.27-35.
- Wang, Chunzeng**, Cen, Boxiong, and Wang, Dingyu, 1992. Geologic characteristics and related problems of boron-rich pneumatite-hydrothermal veins from the Hujiayu-Bizigou copper mining area, Zhongtiao Mountains. *Earth Science*, v. 17, No.5, p.531-538. (in Chinese with English abstract)
- Wang, Chunzeng**, Ouyang, Chengfu, Lang, Yaoxiu, Xiao, Long, and Yang, Qijun, 1992. On the genesis and related problems of Archean gray gneisses, Sanjia, eastern Hebei. *Journal of Guilin Institute of Technology*, v.12, No.2, p.135-141. (in Chinese with English abstract)

- Wang, Chunzeng**, 1991. Structural analysis and genesis research on Beiyu granite, Zhongtiao Mountains, Shangxi. *Journal of Guilin Institute of Technology*, v.11, No.1, p.57-65. (in Chinese with English abstract)
- Wang, Chunzeng**, 1991. New recognition on the meta-acid volcanic rocks of the Jiangxian Group in the core region of the Hujiayu-Shangyupo anticline of the Zhongtiao Mountains. *Regional Geology of China*, No. 2, p.176-181. (in Chinese with English abstract)
- Wang, Chunzeng**, 1991. Deformation partitioning structures: A review. *Dixue Tansuo (Earth Science Exploration)*, v.4, p.14-21. (in Chinese with English abstract)
- Wang, Chunzeng**, Song, Honglin, and Fu, Zhaozen, 1990. Deformation partitioning and determination of Shangyupo meta-basic intrusive sheet, Zhongtiao Mountains. *Geosciences*, v.4, No.4, p.35-45. (in Chinese with English abstract)
- Wang, Chunzeng**, 1990. Types and evolutionary characteristics of the Zhangtiaoshan metabasic pyrolyth in Shangxi. *Journal of Guilin Institute of Technology*, v.10, No.2, p.129-140. (in Chinese with English abstract)
- Wang, Chunzeng**, 1988. Deformation partitioning and its significances. *Geologic Science and Technology Information*, v.7, No.2, p.13-19. (in Chinese with English abstract)

PUBLISHED BEDRCK GEOLOGIC MAPS AND REPORTS

- Chunzeng Wang**, 2014. Bedrock Geology of the Horseback 7.5' Quadrangle, Maine. Maine Geological Survey (submitted for publication in 2014)
- Chunzeng Wang**, 2011. Bedrock Geology of the Great Pond 7.5' Quadrangle, Maine. Maine Geological Survey, Open-File 12-33.
- Chunzeng Wang**, 2007. Bedrock Geology of the Fletcher Peak 7.5' Quadrangle, Maine. Maine Geological Survey, Open-File 07-143.

CONFERENCE ABSTRACTS

- Chunzeng Wang** and Allan Ludman. 2013. Complexities of orogen-parallel faults: an example from the Norumbega Fault Zone in central-eastern Maine. Geological Society of America Abstracts with Programs, Vol. 45, No.7, p.809.
- Chunzeng Wang** and Allan Ludman. 2012. EXHUMATION OF THE TURNER MOUNTAIN SYENITE FAULT SLIVER IN THE NORUMBEGA FAULT ZONE OF MAINE: IMPLICATIONS FOR KINEMATICS OF OROGEN-PARALLEL FAULT REACTIVATION. Geological Society of America Abstracts with Programs, Vol. 44, No. 2, p. 106.
- Wang, Chunzeng**, Feng, Zuohai, Zhang, Minghua, Liang, Jincheng, 2011. Contrasting episodic emplacement and growth modes of the dumbbell-shaped Guposhan-Huashan twin granitic plutons in Nanling Range of south China. American Geophysical Union 2011 Fall Meeting, Program V21D.

- Wang, C.**, West, D.P., Jr., and Ludman, A., 2010. The Norumbega fault system (NFS): Long-lived transcurrent faulting in eastern and south-central Maine: *Geological Society of America Abstracts with Programs*, v. 42, no. 1, p.128.
- Wang, C.** 2009. Developing a GIS program focusing on real-world applications in northern Maine. *Geological Society of America Abstract with Program*, Vol. 41, No. 3, p. 99.
- Greenlaw, S. and **Wang, C.** 2009. Mapping tribal land environmental constraint with ArcGIS for Houlton Band of Maliseet Indians of Maine. *Geological Society of America Abstract with Program*, Vol. 41, No. 4, p. 78.
- Raymond, J. and **Wang, C.** 2009. Application of geospatial technology in mapping bedrock geology of Turner Mountain, east-central Maine. *Geological Society of America Abstract with Program*, Vol. 41, No. 3, p. 44.
- Greenlaw, S. and **Wang, C.** 2009. GIS mapping of tribal land environmental constraints for Houlton Band of Maliseet Indians of Maine. *Geological Society of Maine Spring Meeting*.
- Monahan, J., Prokey, J., and **Wang, C.** 2009. Mapping Presque Isle downtown pedestrian network infrastructures and helping its downtown revitalization efforts. *Geological Society of Maine Spring Meeting*.
- Butler, R., Jenkins, C., and **Wang, C.** 2008. Applying GPS and GIS technologies in mapping Presque Isle municipal infrastructures. *Geological Society of Maine Spring Meeting*.
- Wang, C.** and Li, X., 2007. Fluids generation and gold mineralization during progressive ductile deformation at Jinshan gold deposit, south China. *Geological Society of America Abstracts with Programs*, Vol. 39, No. 6, p. 628.
- Wang, C.** 2007. The Mars Hill Conglomerate, Northeastern Maine: a Pre-Acadian Submarine Debris-Flow Complex? *Geological Society of America Abstracts with Programs*, Vol. 39, No. 1, p. 48.
- Wang, C.**, 2005. Turner Mountain Syenite in the Norumbega Fault System, East-central Maine: A Post-Carboniferous Intrusion? *Geological Society of America Abstracts with Programs*, v.37, no.1. p. 72.
- Wang, C.**, and Ludman, A., 2000. Evolution of Norumbega fault system in eastern Maine, *Geological Society of America Abstracts with Programs*, A-230. (Reno, 2000)
- Wang C.**, Ludman, A., and Gayron, B., 2000. Ductile shear geometry of the Norumbega fault system in the Great Bond-Grand Lake Stream area, eastern Maine. *Geological Society of America Abstracts with Programs*, v.32, no.1, A81.
- Wang, C.**, and Ludman, A., 1999. Deformation history of the Norumbega fault system in the Fletcher Peak 7.5' quadrangle, eastern Maine. *Geological Society of America Abstracts with Programs*, v.31, no.1, A77.

BOOK CHAPTERS/JOURNAL ARTICLES REVIEW (since 2010)

- Review of a journal article entitled “Neoproterozoic Wuling Orogeny in eastern Guizhou, South China: Evidence from zircon U-Pb ages of Sibao and Xiajiang Groups” (in English) for *Journal of Canada Earth Sciences*, December 2013.
- Review of a journal article entitled “Petrology and geochemistry of the A-type granites in the Huangshaping Polymetallic Deposit (South Hunan, China): Implications for granite evolution and associated polymetallic mineralization” (in English) for *Journal of Asian Earth Science*. October 2013.

- Review a journal article entitled “*Xiba Granitic Pluton in Qinling Orogenic Belt, Central China: Its Petrogenesis and Tectonic Implications*” (in English) for journal *Acta Petrologica Sinica* (English edition published by Science Press). June 2010.
- Review a journal article entitled “*Emplacement mechanism of the Mesozoic Dengfuxian-Xitian granitic complex in eastern Hunan, central South China*” (in Chinese) for Chinese journal *Geotectonica et Metallogenia*. March 2013.
- Review a book chapter “*Integration strategies for GIS and optimization tools*” for *The Encyclopedia of IS&T (3rd Edition)* by IGI Global. April 2013.

INVITED PUBLIC PRESENTATIONS/TALKS/LECTURES (since 2007)

- **Chunzeng Wang**, 9/30/2013. “*Land Use and Land-Use Change Mapping by Using High-Resolution Aerial, Color-Infrared, and LiDAR-Based Terrain Imageries in ArcGIS*”. An invited panel presentation at 2013 Maine State EPSCoR Conference held in Orono, Maine.
- **Chunzeng Wang**, 7/3/2013. “*Geology and Geo-resource Development of Wuyang County, Henan Province*”. An invited presentation to Wuyang County government officials, China.
- **Chunzeng Wang**, 6/21/2013. “*Deformation History and Rules Played by Orogen-Parallel Transcurrent Faults: Example of the Norumbega Fault System in the Northern Appalachians in Maine, USA*”. An invited presentation at the Guilin University of Technology, China.
- **Chunzeng Wang**, 5/1/2013. “*Introduction to GIS Projects that Involve the Town of Easton and that May Help with Planning and Development*”. An invited presentation to the Planning Board of the Town of Easton.
- **Chunzeng Wang**, 10/23/2012. “*Application of GIS and Web-GIS Technologies in Developing Cemetery GIS Database and Publishing Cemetery Data with Google Maps*”. An invited keynote speech at Maine Cemetery Association annual conference held in Gray, Maine.
- **Chunzeng Wang** et al., 9/24/2012. “*Grass biomass potential for central Aroostook County (poster)*”. Maine 2012 EPSCoR annual conference in Orono, Maine.
- **Chunzeng Wang**, 5/18/2012. “*Mapping non-motorized trails and developing interactive web map system with advanced GPS, GIS, and web-GIS technologies to promote outdoor recreation in Aroostook County*”. An invited presentation at the IAT (International Appalachian Trail) Maine Chapter annual conference held in Shin Pond, Maine.
- **Chunzeng Wang**, 5/8/2012. “*Mapping non-motorized trails and developing interactive web map system with advanced GPS, GIS, and web-GIS technologies to promote outdoor recreation in Aroostook County*”. A presentation at St. John River Advisory Committee annual meeting held in Bakers Lake Pelletier’s Logging Camp, Maine.
- **Chunzeng Wang**, 3/5/2012. “*Fairmount cemetery GIS project*”. An invited presentation to Presque Isle Historic Society.
- **Chunzeng Wang**, 9/23/2011. “*Geological resources, environment, and sustainability – opportunities and challenges*”. An invited presentation at Guilin University of Technology, Guilin, China.
- **Chunzeng Wang**, 9/20/2011. “*From Granitic Magmas to Granitic Plutons: A Review on the Process*”. An invited presentation at Chinese Geological Survey, Beijing, China.

- **Chunzeng Wang**, 4/25/2011. “*Fairmount cemetery GIS project*”. An invited presentation to Aroostook Genealogy Association.
- Mike Sonntag and **Chunzeng Wang**, 4/15/2010. “*Developing a cemetery GIS database for historic, cultural, and social research in Aroostook County*”. An invited presentation to the University of Maine Presque Isle Board of Visitors.
- Mike Sonntag and **Chunzeng Wang**, 3/8/2010. “*Developing a cemetery GIS database for historic, cultural, and social research in Aroostook County*”. An invited presentation to Presque Isle Rotary Club.
- **Chunzeng Wang**, 2/24/2010. “*China’s fast growing economy and mineral and energy consumption: facts and concerns*”. An invited presentation at USDA NRCS (Natural Resources Conservation Service) Maine regional staff annual meeting held in Presque Isle, Maine.
- **Chunzeng Wang**, 9/26/2008. “*Developing a Community-oriented GIS Program in Northern Maine*”. A presentation at MEGUG (Maine GIS Users Group) 2008 Fall Meeting held in Presque Isle, Maine.
- **Chunzeng Wang**, April 2008. “*A geologist and his geological life*”. An invited presentation at a 5th-grade class at Eva Zippel Elementary School of Presque Isle.
- Chunzeng Wang, 11/13/2007. “GIS projects for “. An invited presentation to Aroostook Valley Sail and Power Squadron (AVSPS), Presque Isle, Maine.
- **Chunzeng Wang**, 5/4/2007. “*The Mars Hill Conglomerate, Northeastern Maine: a Pre-Acadian Submarine Debris-Flow Complex?*”. An invited presentation at the International Appalachian Trail (IAT) 2007 Spring Meeting held at Shin Pond, Maine.

RESEARCH AND DEVELOPMENT GRANTS RECEIVED (since 2005)

- 2009-2014 National Science Foundation-funded Maine EPSCoR grants rewarded consecutively for four years totaled at \$415,988 for “*Assessing the feasibility and sustainability of renewable energy production in the Aroostook River watershed through research and stakeholder partnerships*”. Co-PI.
- 2013-2014 U.S. Geological Survey STATEMAP Program “*Bedrock geology mapping of The Horseback 7.5’ quadrangle*”. \$11,000. PI.
- 2012 Chinese National Natural Science Foundation grant of ¥980,000 on “*The genesis of Mesozoic magmatic-hydrothermal Cu-Mo-Au-Pb-Zn deposit at Dexing, Jiangxi province*” (grant #41272112, for academic years 2012-2015). International Collaborator.
- 2011 Maine Office of GIS federal parcel grant of \$12,000 on “*Central Aroostook Parcel GIS Project*”. Principal Investigator.
- 2011 Healthy Aroostook “SNAP-ED (Supplemental Nutrition Assistance Program - Education) Map Project” with a grant of \$2,500. Principal Investigator.
- 2010 Quimby Family Foundation grant of \$29,000 on “*Aroostook non-motorized trail GIS mapping and web-GIS project*”. Principal Investigator.
- 2010 City of Caribou “Tax Map Digitization and Parcel GIS Database Development Project” with an award of \$8,000. Principal Investigator.

- 2010 Town of Fort Fairfield “Mapping Municipal Assets with GPS/GIS Technologies Project” with an award of \$4,920. Principal Investigator.
- 2009 MTAf (Maine Technology Asset Fund) grant of \$96,800 on “*Implementing an Advanced Geospatial Information Mapping and Analysis Facility for Economic Development in Northern Maine*”. Principal Investigator.
- 2009 the University of Maine System Strategic Investment Funds (SIF) grant of \$10,000 on “*Enhancing UMPI’s Community-Centered GIS Program and Fostering Its Community GIS Partnership*”. Principal Investigator.
- 2009 Maine Economic Improvement Fund Small Campus Initiative (MEIF) grant of \$8,000 on “*Developing a Cemetery GIS Database for Historic, Cultural, and Social Research in Aroostook County*”. Principal Investigator.
- 2008 National Science Foundation grant of \$150,000 on “*Creating and Implementing a Concept Inventory-Based Diagnostic Tool to Improve Undergraduate GIS Education*”. Senior Faculty.
- 2008 Maine Economic Improvement Fund Small Campus Initiative (MEIF) grant of \$15,000 on “*Developing a Cemetery GIS Database for Historic, Cultural, and Social Research in Aroostook County*”. Principal Investigator.
- 2008 Chinese National Natural Science Foundation grant of ¥560,000 on “*Magmatic and metallogenic processes in formation of Dexing porphyry copper deposit and SEM-CL analysis*” (grant #40872065 for academic years 2008-2011). Co-PI and International Collaborator.
- 2007-2013 Federal Department of Education Title II B Math and Science Partnership (MSP) grant with a total of \$400,000 award on “*Developing Central Aroostook Math and Science Partnership*” (Phase I and Phase II). Senior Investigator in charge of GPS/GIS part of the project.
- 2005 Chinese National Natural Science Foundation grant of ¥180,000 on “*Noble gas isotopes and halogens as tracers for sources of ore fluids for gold deposits in Dexing region, south China*” (grant #40403006 for academic years 2005-2007). Co-PI and International Collaborator.

OTHER SYNERGISTIC ACTIVITIES

- Developed the GIS Program and its GIS laboratory at the University of Maine at Presque Isle from scratch since 2006.
- Have authored two GIS Lab manuals with emphasis on environment and ecology for the University of Maine at Presque Isle GIS courses.
- Have conducted a number of community GIS projects to develop GIS databases of land/parcel ownership, environmental constraints, natural resources, shoreland zoning, municipal assets, cemeteries, etc.
- Have led an effort and mapped 33 non-motorized recreation trails of Aroostook County by using GPS and GIS technologies, and published them on goaroostookoutdoors.com website with web-GIS technology.

- In charge of GIS mapping and database development of the University of Maine at Presque Isle's NSF-funded EPSCoR project since 2009. Using ArcGIS and high-resolution CIR data, conduct land cover and land use high-resolution mapping of central Aroostook County townships with focus on vegetation/plant classification and mapping.
- Performing a number of international collaborative research projects in geology and economic geology in China with several Chinese collaborators; the projects are all funded by Chinese National Natural Science Foundation and other foundations in China.
- Co-led a GSM (Geological Society of Maine) summer field trip with Dave Putnam to Deboullie Public Reserved Land in July 15-17, 2011.
- As a member of a research team of faculty and doctorate students from UMaine Orono and UMPI on global climate change and its impact on societies, I led and participated a three-week long field trip to western China's Tien Shan Mountains and Tarim Basin (Taklimakan Desert and Lop Nor) in June-July 2010.
- Appointed as a member of the Graduate Thesis Defense Committee by the Guilin University of Technology (China) for master's degrees in geology during since 2005.