

CURRICULUM VITAE

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EDUCATION

Ph.D., 1992, Resource Development, Minor: Systems Science, Michigan State University, East Lansing, Michigan.

M.S., 1985, Agricultural Zoning and Natural Resources Management, Northwestern Agricultural University.

B.S., 1982, Agronomy, Northwestern Agricultural University, Yangling, Shaanxi, P.R. China.

EMPLOYMENT

8/ 2005-present, Professor, Department of Geography, Western Michigan University, Kalamazoo, MI 49008.

8/ 2000- 7/2005. Associate Professor, Department of Geography, Western Michigan University.

9/2001-8/2002, National Research Council/NOAA Senior Research Associate at NOAA Great Lakes Environmental Research Laboratory, Ann Arbor, MI 48105 (sabbatical leave).

8/1995- 7/ 2000, Assistant Professor, Department of Geography, Western Michigan University.

9/1994-8/1995, Assistant Professor, Department of Geography, St. Cloud State University, St. Cloud, MN 56301.

9/1990-8/1994, Research Specialist to Visiting Assistant Professor, Department of Resource Development and Institute of Water Research, Michigan State University, East Lansing, MI 48824.

AWARDS AND HONORS

2015. Western Michigan University Distinguished Faculty Scholar.

2015. Fulbright Senior Specialist Award, US Department of State Fulbright Commission, visited and gave lectures at the University of Bucharest, Romania.

2014 & 2016. *Science China Earth Sciences* Excellent Editor Awards

2009. Fulbright Senior Specialist Award, visited and lectured at Shanghai Jiao Tong University.

2009. Outstanding Achievement Award in collaborative research by The Chinese Academy of Sciences Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI) (Lanzhou).

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2007. Western Michigan University College of Arts and Sciences Faculty Achievement Award in Research and Creative Activity.
Western Michigan University College of Arts and Sciences Dean's Staff and Faculty Appreciation Award.
2005. Outstanding Overseas Scholar (one of the 113 awardees worldwide), The Chinese Academy of Sciences.
2004. Member, The Honor Society of Phi Kappa Phi.
2001. National Research Council /NOAA Senior Research Associateship Award.
1997. The National Natural Science Foundation of China Returning Overseas Chinese Scholar Academic Fellowship.
1995. Western Michigan University College of Arts and Sciences Dean's Appreciation Award.
- 1991-1992, International Leadership Program award recipient, Michigan State University.
1991. Hydrolab/American Water Resources Association Best Student Paper Competition Award
1990. Phi Beta Delta International Scholars Honor Society.
1988, Thoman Fellowship recipient, Michigan State University.

GLOBAL ENGAGEMENT ACTIVITIES

Serving on 8 international editorial boards, hosted 38 international scholars' visits, organized 4 international conferences and workshops, published 83 collaborated journal articles and book chapters (50 SCI articles, 25 Chinese articles, 7 book chapters, and 1 monograph).

POSITIONS IN PROFESSIONAL ORGANIZATIONS

- Editorial Board Member, *Science China Earth Sciences* (English edition, Springer), 2012 -present.
Editorial Board Member, *Ecosystem Health and Sustainability*, 2016-.
Editorial Board Member, *Acta Ecologica Sinica*, 2015-.
Editorial Board Member, *Journal of Resources and Ecology*, 2010-.
Editorial Board Member, *Chinese Geographical Science* (English edition, Springer), 2009 -.
Editorial Board Member, *Sciences in Cold and Arid Regions*, 2009-.
Editorial Board Member, *Journal of Water Resources and Engineering (in Chinese)*, 2015-
Editorial Board Member, *Resources Science Journal* (in Chinese), 2001-2014.
- Member, Fulbright Specialist Program 2010-2014 Environmental Science Peer Review Committee.
Vice Chair and Member, Steering Committee of Commission for Water Sustainability, International Geographical Union (IGU), 2011-.

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Member, Academic Committee, State Key Lab of Urban and Regional Ecological Research, Research Center for Eco-Environmental Sciences, The Chinese Academy of Sciences, 2016-
Standing Board of Directors, Ecological Society of China, 2013-
Board of Directors, Water Resources Commission of China Society of Natural Resources, 2011-
Vice Chair, Hydro-Geography Commission, Geographical Society of China, 2018-
Board of Directors, The U.S. – China Institute, 2006-2008
Board of Directors, The Association of Chinese Professionals in GIS (Overseas), 2000-2001.
AAG (Association of American Geographers) Publications Committee, 2011-2014.
Chair, AAG Water Resources Specialty Group, 2008-2010.
Secretary-Treasurer, AAG Water Resources Specialty Group, 2006-2008.
Executive Board, AAG Water Resources Specialty Group, 2004-2006.
Member, AAG Water Resources Specialty Group Award Committee, 2003-2004.

ADJUNCT PROFESSORSHIP

Outstanding Adjunct Professor and Director, Center for Dryland Water Resources Research and Watershed Science, Lanzhou University, 2011-
Guest Professor, Shanghai Jiao Tong University (2009-2011)
Adjunct Professor, The Chinese Academy of Sciences Institute of Geographic Sciences and Natural Resources Research (2001-).
Outstanding Adjunct Lecture Professor, Lanzhou University, Lanzhou, P.R. China (2005-2008).
Adjunct Professor, Northwest University, Shaanxi, P.R. China (2017-2022).

COLLABORATIVE AGREEMENT BETWEEN WMU AND CHINESE INSTITUTION

2005. Facilitated the Collaborative Research Agreement between the Institute of Geographic Sciences and Natural Resources Research (IGSNRR), Chinese Academy of Sciences (CAS), Beijing, People's Republic of China; and Western Michigan University (WMU), Kalamazoo Michigan, United States of America, Ronald W. Davis, Vice Provost for International Programs for WMU signed the agreement on behalf of WMU. I was the institutional contact for WMU.

2004. In collaboration with WMU Office of International Affairs, invited Mr. Tongzeng BAO, Director and Consul of the Education, Mr. Hongqing ZHU and Mr. Zhigang Zhang, Consuls of the Education, The General Consulate of P.R. China in Chicago to visit WMU for strengthening collaborations between WMU and Chinese universities.

STUDY ABROAD PROGRAM IN CHINA

Since 2017, established GEOG 5450 Study Abroad Program: China's Water Resources Management to take WMU students to visit Beijing Normal University and Lanzhou University and relevant water resources programs and projects in Beijing, Gansu and Ningxia.

INVITED CONFERENCE KEYNOTE SPEECHES

2017. Keynote Speaker, "Watershed Science and Global Water Sustainability", The 12th international Congress of Ecology: Ecology and Civilization in a Changing World, Beijing,

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China, Aug. 20-25, 2017.

- 2015. Keynote Speaker, “Watershed Hydrology: Advances, Challenges and Opportunities”, Institute of Geological Sciences and Natural Resources Research, Chinese Academy of Sciences, Beijing Ecological Lecture Series, China, Dec. 21, 2015.
- 2015. Keynote Speaker, “Development of A Watershed Science for Sustainable Water Resources Management”, EcoSmart Conference, Bucharest, Romania, Nov. 12-15, 2015.
- 2015. Keynote Speaker, “Watershed Science and Dryland Ecological Security: Challenges and Opportunities”, Annual Conference of Ecological Society of China, Chengdu, China, Sept.23-25, 2015.
- 2013. Keynote speaker, “Climate change and water resources sustainability in arid regions” at AULA MAGNA 2013 at the Pontifical Catholic University of Peru (PUCP) in Lima, Peru, November 11-13, 2013.

CONFERENCE SERVICES

- 2019. Member of Organizing Committee for the invitation only, high level, Sino-American Symposium on Big Issues Facing Quality of Life during the 21st Century, to be held on WMU campus, May 4-5, 2019.
- 2017. Organized a workshop on “Impacts of land use/cover change on land surface water-energy processes in the agricultural-pastoral transitional zone, Northwest China”, Lanzhou University, China, May 27-29, 2017.
- 2013. Organized the IGU 2013 International Conference on Water Sustainability in Arid Regions, at Lanzhou University, Aug.12-14, 2013. Over 150 participants from 11 countries and regions came to the conference. The conference was jointly sponsored by Lanzhou University, International Geographical Union, International Association of Hydrological Science, The Chinese Geographical Society, and The Natural Resources Society of China. The conference was a huge success and 3 national news media (Xinhua News Net, People's Daily Net, Guangming Daily Net), and 1 provincial news media (Gansu Daily) reported this conference.
- 2012. Organized an Advanced Workshop on Ecohydrology in Arid Regions, Lanzhou University, June 7-8.
- 2011. Vice President of Organizing Committee, The 9th China Water Forum, Lanzhou, China, Aug.2-3, 2011.
- 2011. Member, Science Committee, International Symposium on Environmental Protection and Planning (ISEPP): Geographic Information Systems (GIS) and Remote Sensing (RS) Applications, June 28-29th, 2011, Izmir, Turkey.

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2005. Co-organizer, The International Workshop on Advanced Watershed Modeling, Water Resources Management, and Complex Environment System Studies, Nanchang, Jiangxi, P.R. China, June 27-29.
1998. Organized and hosted The AWRA (American Water Resources Association) -Michigan Chapter lunch meeting, "Managing Kalamazoo River: Challenges and Strategies Facing All in the Watershed, WMU campus.
1995. Project demonstration to Mr. Franklin Sonn, Ambassador of South Africa to the U.S., St. Cloud State University, Feb. 24.
1992. Co-Organizer, The CIESIN/EPA Chesapeake Bay Remote Sensing Workshop, "Planning Future Sources of Environmental Information", Annapolis, Maryland, Sept. 24-25.
- Co-organized and chaired IGU Water Sustainability Commission sessions at IGU conferences in Chile, China, Croatia, China, Germany, Japan, and Russia since 2011.

HOSTING WMU VISITING SCHOLARS & ARTISTS PROGRAM (VSAP) AWARD RECIPIENTS

Applied for and hosted 12 WMU VSAP award recipients for lectures and academic exchanges and collaborations.

- 11) 2018. Professor XU Baiqing, The Institute of Tibetan Plateau Research, Chinese Academy of Sciences in Beijing, and Executive Director of the China Society on Tibetan Plateau.
- 10) 2017. Professor XU Zongxue, Distinguished Professor and Associate Dean, College of Water Sciences, Beijing Normal University.
- 9) 2016. Professor Liliana Zaharia, Department of Meteorology –Hydrology, and Director of the Research Center, The Water Resources and Water Related Risks Management at the University of Bucharest, Romania.
- 8) 2015. Professor LUO Yi, Deputy Director of Key Lab of Ecosystem Network Observation and Modeling (LENOM), The Institute of Geographic Science and Natural Resources Research (IGSNRR), Chinese Academy of Sciences.
- 7) 2010. Professor KANG Shaozhong, Director and Chief Professor, Center for Agricultural Water Research, China Agricultural University.
- 6) 2008. Professor WANG Ninglian, Director of Division of Cryosphere and Global Change, Cold and Arid Regions Environmental and Engineering Research Institute, The Chinese Academy of Sciences.

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- 5) 2007. Professor NIU Shuwen, Lanzhou University.
- 4) 2005. Professor FU Bojie, Director-General, Bureau of the Sciences & Technology for Resources and Environment, The Chinese Academy of Sciences.
- 3) 2004. Professor Wu, Zemin, Chairman of Department of Landscape, Shanghai Jiaotong University and former dean of College of Forestry, Anhui Agricultural University.
- 2) 2003. Professor Cheng, Sheng-Kui, Deputy Director of the CAS Institute of Geographic Sciences and Natural Resources Research.
- 1) 1999. Prof. Tang, Dengying, Deputy Director, and Prof. Xie, Xianqun, The CAS Institute of Geography.

INTERNATIONAL COLLABORATIVE GRANTS RECEIVED

2016. 6) PI, "Impacts of land use/cover change on land surface water-energy processes in the agricultural-pastoral transitional zone, Northwest China", NSF of China, 3.435 million Chinese Yuan (equivalent to: \$554,000), 2016 – 2020.
2013. 5) Collaborator, research on key issues in ecological-hydrological-socio-economical system of Greater Dunhuang Region, Northwestern China, 2013 Key Research Support Program of Central Government Higher Education Basic Research Founding, Lanzhou University (1.2 million Chinese Yuan), 1/1/2013-12/1/2014.
2012. 4) PI, "Observations and experiments on heterogeneity of soil hydraulic properties and its effects on hydrological processes in the Upper Reaches of the Heihe Watershed, Northwest China", NSF of China, 2.6 million Chinese Yuan (equivalent to: \$420,000), 2012 – 2015.
2010. 3) Collaborator, Impacts of Climate Change on the Hydrological Process of Water Cycle in Arid Northwest China (2010CB951002), The Ministry of Science and Technology (3.73 million Yuan), 2010-2015.
2009. 2) Collaborator, Sino-U.S. Collaborative Research on Functional Aggregation of Regional Ecosystem Services, with The Chinese Academy of Sciences (CAS) (Grant No: GJHZ0948) Research Center for Eco-Environmental Sciences, The CAS, (800,000 Chinese Yuan), 2009-2011.
2007. 1) Collaborator, International Partnership Project of the Chinese Academy of Sciences, "The Basic Research for Water Issues of Inland River Basin in Arid Region" (CXTD-Z2005-2). The Chinese Academy of Sciences Cold and Arid Region Environmental Engineering Research Institute, 6,000,000 Chinese Yuan (approximately equivalent to \$750,000), 7/1/2005-5/31/2009.

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INTERNATIONAL COLLABORATIONS

Actively pursued, facilitated, and provided leadership in interdisciplinary and international research. Hosted visits of the following 31 international scholars for collaborative research and academic exchange.

2018. Dr. ZHENG Wei, Shaanxi Normal University, Xian, China.

2015. Dr. ZHANG Lanhui, and ZHANG Baoqing, Lanzhou University.

2015. Prof. FU Bojie, President of Chinese Geographical Society and Academician of The Chinese Academy of Sciences.

2014. Drs. ZHOU Hongyi and LI Huixia from FoShan University, China.

2014. Prof. CEHN Liding, Secretary-General of China Society of Ecology from The Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences.

2014. Prof. HE Xiubin from Institute of Mountain Hazards and Environment, Chinese Academy of Sciences.

2013. Ms. YANG Fang and Mr. XIN Xiaokang from Institute of Changjiang Water Resources Protection, Changjiang Water Resources Commission.

2012. Dr. WANG Hao, Academician of the Chinese Academy of Engineering and Director of Department of Water Resources, China Institute of Water Resources and Hydropower Research (IWHR), Beijing.

2012. Dr. Zhao Chuanyan from Lanzhou University.

2011. Dr. ZHANG Lanhui from Lanzhou University.

2011. Dr. GAO Guangyao and Mr. XU Yanda from the CAS Research Center for Eco-Environmental Sciences.

2010. Dr. WU Yanqing, Dean, School of Environmental Sciences and Engineering, Shanghai Jiao Tong University.

2010. Being invited as an international review panelist for School of Environmental Science and Engineering, Shanghai Jiao Tong University.

2009. Visited Shanghai Jiaotong University as a Fulbright Specialist for lecturing and collaborative research.

2008. Prof. CHOU Tienyin, Director of GIS Center at Feng Jia University, Taiwan.

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2009. Prof. YUE Yuanzhen , the Institutes of Geographic Sciences and Natural Resources Research (IGSNRR), the Chinese Academy of Sciences.
2008. Dr. CAI Huanjie, Prof. and Dean, College of Water Resources and Architecture, Northwestern A&F University, Yangling, China.
2008. Dr. WU, Yanqing, Prof. and Dean, School of Environmental Sciences and Engineering, Shanghai Jiao Tong University.
2007. Dr. SUN Yongxi, Division Chief of the Bureau of Bio-Technology, The Chinese Academy of Sciences (CAS); Dr. OUYONG Zhu Director; and Associate Professor LI Yunsheng of The CAS Yucheng Ecological Research Station (YCES).
2007. Prof. XIAO Honglang, Assistant Director; Prof. HE Yuanqing; and Prof. FENG Qi from Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou.
2007. Coordinated the visit of Mr. MA Zurong, Director-General of Hetao Irrigation District Management General Bureau, Inner Mongolia, to the U.S., including visits to the Salt River Project in Phoenix, Arizona; the Closed Basin Division (CBD) in South Central Colorado, and the South Florida Water Management District (SFWMD) in Florida.
2006. Invited to The Sino-U.S. Educational Exchange Summit by The Chinese Consulate General in Chicago.
2006. Invited Mr. Dennis Schorock, The International Joint Commission-U.S. Section Chair to give a presentation at The Shared Waters: A Great Lakes Symposium on campus.
2006. Dr. LIU Ying, Associate Dean of College and Environment and Natural Resources from Jiangxi Normal University, Nanchang, Jiangxi.
2005. As one of the 17 invited international speakers from 11 countries, presented a paper on watershed modeling at the 2005 International Conference on Spatial Information Theory and Application in Taichong, Taiwan, May 19-20.
2004. Dr. LUO Yi from the Institute of Geographical Sciences and Natural Resources Research, The Chinese Academy of Sciences, Beijing.
1999. Dr. Shi, Hua, Chief of Chinese Ecosystem Research Network Office, Chinese Academy of Sciences.
1998. Dr. Fu, Bojie, Deputy Director, The Research Center for Eco-Environmental Sciences, The Chinese Academy of Sciences.

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1995. Under the invitation of The Chinese Geographical Society (Taiwan) and the GIS Center of Feng Chia University, as a member of the Association of Chinese Professionals in GIS (CPGIS), visited 1) Department of Geography, National Taiwan University, 2) Taiwan Environmental Protection Administration Bureau of Environmental Monitoring and Data Processing, 3) Hitron Technology Inc., 4) GAIA GIS Consultant Co., Ltd., and 5) Center for Space and Remote Sensing Research, National Central University.
1988. Interpreter, accompanied The Chinese Irrigation Delegation of Shaanxi Province to visit Utah State University International Irrigation Center, Logan, Utah; Salt River Project, Phoenix, Arizona; and University of California at Davis, California.

REVIEW NATIONAL AND INTERNATIONAL RESEARCH PROPOSALS

Research proposal reviewer for NASA, NSF, US. Department of Agriculture, U.S. Geological Survey, Australia, Belgium, Canada, Malaysia, UK, and Chinese agencies including National Office for Science and Technology Awards, NSF of China, Chinese Academy of Sciences, Ministries of Education (the Changjiang Scholars Program) and Science and Technology, etc.

RESEARCH

RESEARCH INTEREST

Water resources management, effect of land use/cover change on watershed hydrology and water quality, nonpoint source pollution modeling, ecosystem indicators, hydrology of the Great Lakes watersheds, water resources of China, and comparative analysis of Sino-U.S. water resource policies.

PUBLICATIONS

Special Issues Editor

1. Co-Guest Editors: Chansheng He and Frank Winde: Water Sustainability and Ecosystem Health, a Special Issue for *Ecosystem Health and Sustainability (EHS)*, Vol.2-3-4, 1401011, November 5, 2018. <http://explore.tandfonline.com/page/est/tehs-2018> - si1?utm_source=CPB&utm_medium=cms&utm_campaign=JMX06994.
2. Co-Guest Editor: Watershed science. *Science China Earth Sciences*, January 2015 Vol.58 No.1: 1–2
3. Co-Guest Editor, 2016. Hydrometeorological Observation and Study in High Altitude Area. *Advances in Meteorology*.
4. Guest Editor, 2014. Water Sustainability in Arid Regions, *Journal of Lanzhou University (Natural Sciences)*, 2014, 50(3) (in Chinese).

REFEREED JOURNAL ARTICLES

Note: SCI = Science Citation Index; SSCI=Social Science Citation Index. *=corresponding author.

2018. 67) Luo, Yi, Rong Gan; Lin Sun; Chansheng He, Xiaolei Wang, Yiqing Zhang, Shiyin Liu. 2018. Climate change impacts on base flow in the headwater of Syr Darya River Basin in the last fifty years since 1950s, Central Asia. *Global and Planetary Change* (under review).
- 66) TIAN ,Jie, Baoqing ZHANG, Chansheng HE*, Zhibo HAN, H.R. Bogen, J.A. Huisman.2018. Dynamic response patterns of profile soil moisture under different land covers in the Mountainous area of the Heihe River Watershed, Northwest China.*Agricultural and Forest Meteorology* (under review).
- 65) ZHANG, Lanhui, Chansheng HE*, Mingmin ZHANG, and Yi ZHU. 2017. Evaluation of the SMOS and SMAP soil moisture products against both sparse and dense in situ networks over an arid mountainous watershed, Northwest China. *Science China Earth Sciences* (SCI) ([10.1007/s11430-018-9308-9](https://doi.org/10.1007/s11430-018-9308-9)) (SCI).
- 64) He, Chansheng and Frank Winde. 2018. Water Sustainability and Watershed Ecosystem Health, editorial, *Ecosystem Health and Sustainability*, Vol.4(10): 241-242, <https://doi.org/10.1080/20964129.2018.1538666> (editorial).
- 63) Luo, Yi., Xiaolei Wang, Shilong Piao, Lin Sun, Philippe Ciaï, Tobias Bolch, Yiqing Zhang, Changkun Ma, Rong Gan, Chansheng He. 2018. Contrasting streamflow regimes induced by melting glaciers across the Tien Shan – Pamir – North Karakoram. *Scientific Report* (SCI), 8:16470, :10.1038/s41598-018-34829 .
- 62) Li, Jinlin, Lanhui Zhang, Chansheng He*, and Chen Zhao. 2018. Comparison of the MCRF and ordinary Kriging methods for calculating soil texture in a mountainous watershed, Northwest China. *Sustainability*, 10, 2819, <http://dx.doi.org/10.3390/su10082819> (SCI).
- 61) Biao Long, Baoqing Zhang*, Chansheng He, Rui Shao, Wei Tian.2018. Is there a change from a warm-dry to a warm-wet climate in the Inland River Area of China? Interpretation and analysis through surface water balance. *Journal of Geophysical Research: Atmospheres*, 123, <https://doi.org/10.1029/2018JD028436> (SCI, IF:3.318).
- 60)JIN, X., Chansheng HE*, Lanhui ZHANG, and Baoqing ZHANG. 2018. A Modified Groundwater Module in SWAT for Better Streamflow Simulation in a Large Arid Endorheic River Watershed, Northwest China. *Chinese Geographical Science* (SCI) , 28(1):47-60, <https://doi.org/10.1007/s11769-018-0931-0>.

2017. 59) Xie, Yaowen, Bie Qiang, and Chansheng He. 2017. Human Settlement and Changes in the Distribution of River Systems in the Minqin Basin over the past 2000 years in Northwest China. *Ecosystem Health and Sustainability*, 3(11), 1401011, DOI:10.1080/20964129.2017.1401011.
- 58) ZHANG, Lanhui, Chansheng HE*, and Mingmin ZHANG. 2017. Multi-Scale Evaluation of the SMAP Product Using Sparse In-Situ Network over a High Mountainous Watershed, Northwest China. *Remote Sensing*, 9(1111), doi:10.3390/rs9111111 (SCI, IF:3.406).
- 57) ZHANG, Lanhui, Chansheng HE*, Xiao Bai, Yi Zhu. 2017. Physically-based adjustment factors for precipitation estimation in a large arid mountainous watershed, Northwest China. *Journal of Hydrologic Engineering* 22(11):04017047, , DOI: 10.1061/(ASCE)HE.1943-5584.0001576 (SCI).
- 56) ZHANG, Lanhui, Chansheng HE*, Jinlin LI, Yong WANG, Zhongfu Wang. 2017. Comparison of IDW and physically-based IDEW method in hydrological modelling for large mountainous watershed, Northwest China. *River Research and Applications*, DOI: 10.1002/rra.3147 (SCI, IF:2.067).
- 55) LIU, Lei, Jianqin Ma, Yi Luo, C. He and Tiegang Liu. 2017. Hydrologic Simulation of a Winter Wheat– Summer Maize Cropping System in an Irrigation District of the Lower Yellow River Basin, China. *Water*, 9(7), doi:10.3390/w9010007 (SCI).
2017. 54) TIAN, Jie, Baoqing ZHANG, Chansheng HE*, Xiao BEI. 2017. Variability of Soil Hydraulic Conductivity and Soil Hydrological Response under Different Land Cover in the Mountainous Area of the Heihe River Watershed, Northwest China. *Land Degradation and Development*, 28:1437–1449, DOI: 10.1002/ldr.2665 (SCI Impact Factor:7.27)
2016. 53) He, C. 2016. Quantifying Drivers of the Sediment Load Reduction in the Yellow River Basin. *National Science Review*, 3(2): 155-156, doi: 10.1093/nsr/nww014 (SCI) (Impact factor: 8.42).
- 52) ZHANG, Lanhui, Xin JIN, Chansheng HE*, Baoqing ZHANG, Xifeng ZHANG, Chen ZHAO Jinlin LI, Jie Tian and Carlo DeMarchi. 2016. Comparison of a concept model and a physically-based model for hydrological modeling of a mountainous watershed in arid Northwest China. *Journal of Hydrologic Engineering (SCI)*, 21(5): 04016007, DOI: 10.1061/(ASCE)HE.1943-5584.0001313.
- 51) Zhang, Baoqing and Chansheng He. 2016. A modified water demand estimation method for drought identification over arid and semiarid regions. *Agricultural and Forest Meteorology* 230-231:58-66 (SCI), <http://dx.doi.org/10.1016/j.agrformet.2015.11.015>.

- 50) ZHANG, Baoqing, Chansheng He, Morey Burnham, and Lanhui Zhang. 2016. Evaluating the coupling effects of climate aridity and vegetation restoration on soil erosion over the Loess Plateau in China. *Science of the Total Environment*, 539:436-449 (SCI), <http://dx.doi.org/10.1016/j.scitotenv.2015.08.132>.
- 49) Ding, Yongjian, Shiqiang Zhang, Fengjing Liu, Daqing Yang, Chansheng He, and Svetlana Stuefer. 2016. Hydrometeorological Observation and Study in High Altitude Area. *Advances in Meteorology*, Doi:10.1155/2016/1372464. (Editorial).
- 48) JIANG, Yiwen, Lanhui Zhang*, Baoqing ZHANG, Chanshegn HE*, Xin JIN and Xifeng ZHANG. 2016. Modeling Irrigation Management for Water Conservation by DSSAT Model in arid Northwestern China. *Agricultural Water Management (SCI)*, 177:37-45, <http://dx.doi.org/10.1016/j.agwat.2016.06.014>.
- 47) Wang, Xiaolei, Yi Luo, Lin Sun, Chansheng He, Yiqing Zhang, Shiyin Liu. 2016. Attribution of runoff decline in the Amu Darya River of Central Asia from 1951 to 2007. *Journal of Hydrometeorology (SCI)*, 17 (5):1543-1560, DOI: 10.1175/JHM-D-15-0114.1 (IF=3.599).
2015. 46) Li, Xin, Ganlin Zhang and Chansheng He. 2015. Editorial: Watershed science: Bridging new advances in hydrological science with good management of river basins. *Science China Earth Sciences (SCI)*, 58(1-2):1-2, DOI:10.1007/s11430-014-5037-7 (Times Cited: 17, Based on ISI Web of SCI) (Editorial).
2015. 45) Jin, X, L. Zhang, J. Gu, C. Zhao, J. Tian, and C. He*. 2015. Modeling the Impacts of Spatial Heterogeneity in Soil Hydraulic Properties on Hydrologic Process in the Upper Reach of the Heihe River in the Qilian Mountains, Northwest China. *Hydrological Processes (SCI)*, 29(15):3318:3327, DOI:10.1002/hyp.10437.
- 44) Zhang, L., S. Wang, C. He*, K. Shang, L.Meng, X.Li, and B. M. Lofgren. 2015. A new method for instant correction of Numerical Weather Prediction Products in China. *Science China -Earth Sciences (SCI)* 58(2):231-244, doi: 10.1007/s11430-014-4957-6.
2014. 43) Zhang, X., L. Zhang, C. He*, J. Li, and Y. Jiang. 2014. Quantifying the impacts of land use/ land cover change on groundwater depletion in Northwestern China - a case study of the Dunhuang Oasis. *Agricultural Water Management (SCI)*,146:270-279, <http://dx.doi.org/10.1016/j.agwat.2014.08.017>(Times Cited: 17).
- 42) Tang, Q., C. He, X. He, Y. Bao, R. Zhong and A. Wen. 2014. Farmers' sustainable strategies of soil conservation on sloping arable lands in the Upper Yangtze River Basin, China. *Sustainability* 2014 (6):4795-4806; doi:10.3390/su6084795 (SCI).
- 41) He, C, L. Zhang, C. DeMarchi, and T.E. Croley II. 2014. Estimating Spatial Distribution of Point and Nonpoint Sources Pollution Loads in the Saginaw Bay

Watersheds *Journal of Great Lakes Research* Supplement 40 (2014) 11–17,
<http://dx.doi.org/10.1016/j.jglr.2014.01.013>.

40) Fu, Li, L. Zhang, and C. He*. 2014. Analysis of Agricultural Land Use Change in the Middle Reach of the Heihe River Basin, Northwest China. *International Journal of Environmental Research and Public Health (SCI)*, 11(3):2678-2712, doi:10.3390/ijerph110302698.

39) Zhang, LanHui, Shigong Wang, Yu Zhang, ChanSheng He*, Xin Jin. 2014. Development of an instant correction and display system of Numerical Weather Prediction Products in China. *Chinese Geographical Science (SCI)* DOI: 10.1007/s11769-014-0672-7.

2013. 38) Yang, F., Z. Xu, Y. Zhu, C. He, G. Wu, J Qiu, Q. Fu, & Q. Liu. 2013. Evaluation of agricultural nonpoint source pollution potential risk over China with a Transformed-Agricultural Nonpoint Pollution Potential Index method. *Environmental Technology (SCI)* 34(21): 2951-2963. DOI:10.1080/09593330.2013.796008.

37) Xu, YD, BJ FU, and CS He. 2013. Assessing the hydrological effect of the check dams in the Loess Plateau, China, by model simulations. *Hydrology and Earth System Science (SCI)*, 17: 2185–2193. (IF: 3.984, Times cited: 36).

36) Liu, S., Li, Yi, and He, C. 2013. Spectral analysis and estimations of soil salt and organic matter contents. *Soil Science (SCI)* 178(3):138-146 (doi: 10.1097/SS.0b013e318295ba8f).

2012. 35) Li, Y., M. Li, B. Si, and C. He. 2012. Relationship between volume-based and number-based fractal dimensions of soil particle size distributions. *Transactions of the Chinese Society of Agricultural Engineering* 28(23):82-91, DOI: 10.3969/j.issn.1002-6819.2012.23.012.

34) Li, Yi, S. Liu, Z. Liao, and C. He. 2012. Comparison of two methods for estimation of soil water content from measured reflectance. *Canadian Journal of Soil Science (SCI)*, (2012) 92: 1-13 , doi:10.4141/CJSS2011-114 .

33) He, C., Lanhui ZHANG, Li FU, Yi LUO, Lanhai LI, Carlo DeMarchi , and Ninglian WANG. 2012. Streamflow Allocation for Rehabilitation of Downstream Ecosystems in Arid Northwest China *Hydrol. Earth Syst. Sci. Sci. Discuss.*, 9, 1–38, 2012, www.hydrol-earth-syst-sci-discuss.net/9/1/2012, doi:10.5194/hessd-9-1-2012.

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- 27) DeMarchi, Carlo, Fei Xing, Thomas E. Croley II, Chansheng He, Yaping Wang. 2011. Application of a Distributed Large Basin Runoff Model to Lake Erie: Model Calibration and Analysis of Parameter Spatial Variation . *J. of Hydrologic Engineering (SCI)* 16((3):193-202 (DOI: 10.1061/(ASCE) HE.1943-5584.0000304).
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2007. 17) He, C. and T.E. Croley II. 2007. Application of a Distributed Large Basin Runoff Model in the Great Lakes Basin. *Control Engineering Practice (SCI) Vol.15 (8): 1001-1011*(Times Cited: 13).
2006. 16) Croley, T.E. II. and C. He, 2006. Watershed Surface and Subsurface Spatial Intraflows. *Journal of Hydrologic Engineering (SCI) Vol.11 (1):12-20* (Times Cited: 11).
2005. 195 He, C. S. Cheng, and Y. Luo. 2005. Desiccation of the Yellow River and the South Water Northward Diversion Project. *Water International (SCI) Vol. 30 (2):261-268*.
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1999. 9) He, C. 1999. Assessing Regional Crop Irrigation Requirements and Streamflow Availability for Irrigation Development in Saginaw Bay, Michigan. *Geographical Analysis (SSCI)* Vol. 31 (2):169-186.
- 8) He, C. 1999. Incorporating Soil Associations into Linear Programming Models for Development of Irrigation Scenarios. *Geographical Analysis (SSCI)* Vol. 31 (3): 236-248.
- 7) He, C. 1999. Use of Hydrologic Budget and Chemical Data for Groundwater Assessment. American Society of Civil Engineers (ASCE) *Journal of Water Resources Planning and Management (SCI)* Vol. 125 (4):234-238.
- 6) He, C. and T.C. Edens. 1999. Environmental and Economic Concerns in the Saginaw Bay Watershed: Results of A Survey of Environmental Professionals. *The Great Lakes Geographer* Vol. 6 (1&2): 40-50.
- 5) Fu, B., L. Chen, and C. He, 1999. Integrating Landscape Ecological Principles and Land Evaluation for Sustainable Land Use. *Journal of Environmental Sciences (SCI)* Vol. 11(2):136-140.
1998. 4) He, C. and C. Shi. 1998. A Preliminary Analysis of Animal Manure Distribution in Michigan for Nutrient Utilization. *Journal of The American Water Resources Association (SCI)* Vol. 34 (6):1341-1354.
1997. 3) He, C. 1997. Modeling Hydrologic Impact of Withdrawing the Great Lakes Water for Agricultural Irrigation. *Journal of The American Water Resources Association (SCI)* Vol. 33(5): 1055-68.
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1993. 1) He, C., J.F. Riggs and Y.T. Kang. 1993. Integration of Geographic Information Systems and A Computer Model to Evaluate Impacts of Agricultural Runoff on Water Quality. *Water Resources Bulletin (SCI)* Vol.29 (6):891-900 (Citation: 28 times).

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2018. 25) Li, Xu-liang, YANG Li-Xiao, TIAN Wei, XU Xue-feng, and HE Chan-sheng*. 2018. Land use and land cover change in agro-pastoral ecotone in Northwest China: A review. *Chinese Journal of Applied Ecology*, 29(10) 3487-3495, DOI: 10.13287/j.1001-9332.201810.020.

- 24) Han, Zhibo, Baoqing Zhanbg, JieTian, Chansheng He. 2018. Simulating Impact of Climate Change Scenarios on Maize Yield by CCSM4 Climate Model and DSSAT-Maize in the Heihe Oasis, Northwest China. *Journal of Irrigation and Drainage*, DOI: 10.13522/j.cnki.ggps.20170062 .
2017. 23) Zeng, Shengxuan, Juan Gu, Chansheng He. 2017. Climate variability and persistence in the farming-pastoral transitional zone in the Central Part of the Northwest China over the past 60 years. *Research of Soil and Water Conservation* : 25(4):356-364, 1005-3409(2018)04-0356-09.
- 22) Yang, Lixiao, Shengxuan Zeng, Yiwen Jiang, Juan Gu, Chansheng He. 2017. Comparison of Drought Characteristics in the Upstream of the Heihe River Watershed by Palmer Drought Severity Index and Standard Precipitation Index. *Research of Soil and Water Conservation*, 24 (2) :132-136, DOI: 1005-3409(2017)02-0132-05 (in Chinese).
- 21) Xiang, Yihong, Mingmin Zhang, Lanhui Zhang, Chansheng He, Yibo Wang, Xiao Bai. 2017. Assessment of SMOS soil moisture products under different vegetation types in the Qilian Mountain, China. *Remote Sensing Technology and Application*, 32(5):834-843 (in Chinese).
- 20) Bai, Xiao, Lanhui Zhang, Yibo Wang, Jie Tian, Chansheng He, and Guohua Liu. 2017. Spatial-temporal Variation of Soil Moisture under Different Land Use Land Cover Based on In-Situ Observations in the Qilian Mountain, China. *Research of Soil and Water Conservation* , 24 (2) , DOI: 1005-3409(2017)02-0017-09 (in Chinese).
2016. 19) Wang, Zhongfu, Lanhui Zhang, Yibo Wang, and Chansheng He. 2016. The Diurnal Variations of Grassland Evapotranspiration over Different Periods in Pailugou Catchment at the Upper Reach of the Heihe River. *Journal of Applied Ecology*, 27(11):3496-3504, DOI: 10.13287/j.1001-9332.201611.012 (in Chinese).
2015. 18) Wang, Zhongfu, Lixiao Yang, Xiao Bai, and Chansheng He*. 2015. Evaporation Paradox in the Heihe River Basin. *Journal of Glaciology and Geocryology*, 37(5): 1323-1332, DOI: 10.7522/j.isnn.1000-0240.2015.0146 (in Chinese).
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- 16) JIN, Xin, ZHANG Lanhui , Juan GUO, ZHAO Chen, TIAN Jie and HE* Changsheng. 2014. Development and application of a tool for computation of solar radiation in complex topographic areas. *Geospatial Information* 12(2): 56-60 (in Chinese).

- 15) LI Jinlin , ZHAO chen , ZHANG Lan-hui, HE* Chansheng , WANG Zhong-fu. 2014. Comparing three geostatistical methods used in the upstream of the Heihe River watershed. *Journal of Lanzhou University (Natural Sciences)*, 50(3):318-323 (in Chinese).
- 14) TIAN, Jie, JIN Xin, and HE* Chansheng. 2014. Preliminary simulations of the groundwater flow within the mountain ranges by MODFLOW, *Journal of Lanzhou University (Natural Sciences)*, 50(3):324-337 (in Chinese).
- 13) ZHAO Chen, ZHANG Lan-hui , LI Jin-lin, TIAN Jie , WU Wei-zhen , JIN Xin , ZHANG Xi-feng , JIANG Yi-wen, WANG Xiao-lei, HE* Chansheng , and BAI Xiao. 2014. Analysis of the relationships between the spatial variations of soil moisture and the environmental factors in the upstream of the Heihe River watershed. *Journal of Lanzhou University (Natural Sciences)*, 50(3):338-347 (in Chinese).
- 12) ZHANG Xifeng, ZHANG Lanhui, GU Juan, and HE* Chansheng. 2014. Spatio-temporal Variation of Groundwater and Its Response to Land-Use/Land-Cover Change in the Dunhuang River Oasis in Northwest China. *Journal of Lanzhou University (Natural Sciences)*, 50(3):311-317 (in Chinese).
2013. 11) Li, Ji, Y. Li, and C. He. 2013. Frequency Analysis of drought in Heihe river basin using Copula Function Basins. *J. of Northwestern A&F University (Natural Science Ed)*, 41(1):213:220 (in Chinese) .
- 10) WU Weizhen, TIAN Jie, ZHAO Chen, LI Jinlin, GU Juan, *HE Chansheng. 2013. Multi-scale analysis of the long-term trend of the hydrometeorological variables in the Upper Reach of the Heihe River Watershed, Northwest China. *Marine Geology & Quaternary*, 33(4):37-44 (in Chinese).
- 9) Song, Hongyi, Y. LI, and C. He. 2013. Infiltration model of different water compelling soils. *Journal of Irrigation and Drainage Machinery Engineering*, 7:629-635 (in Chinese).
2012. 8) He, Xiaoying and C. He. 2012. Hydrologic resource sheds and its application in water resource management. *Resources Science*, 34(10):1929-1934 (in Chinese) .
- 7) He, C. 2012. Water Resource Management and Watershed Science. *Advances in Earth Science* , 27(7):705-711 (in Chinese).
2009. 6) He, X. and C. He . 2008. Protection and Development of the North America' Great Lakes: Implications to the Management of the Poyang Lake. *Acta Ecologica Sinica* Vol.28 (12):6235-6242 (in Chinese).
2005. 5) He, C., S. Niu, and S. Cheng. 2005. Lessons from Development of the U.S. West to

- China's "Go-West" Campaign. *Resources Science* Vol. 27 (6): 188-193 (in Chinese).
1998. 4) He, C. and B. Fu, 1998. The Development of Water Resources Policy and Management in the United States. *Resources Science* Vol. 20 (1):71-77 (in Chinese). (Times cited: **75**, downloaded: 864 times, <http://epub.cnki.net/>).
- 3) He, C., B. Fu, and Chen. 1998. Nonpoint Source Pollution Control and Management in the United States. *Environmental Sciences* Vol. 19(5): 101-106 (in Chinese). (Times cited: 814, downloaded: 3047 times, <http://epub.cnki.net/>).
1985. 2) He, C. 1985. A Preliminary Study on Agricultural Zoning and Optimal Structures of Crop and Animal Husbandry Productions on Weibei Rainfed Highland (I). *System Sciences and Comprehensive Studies in Agriculture*, No.2:51-58 (in Chinese).
- 1) He, C. 1985. A Preliminary Study on Agricultural Zoning and Optimal Structures of Crop and Animal Husbandry Productions on Weibei Rainfed Highland (II). *System Sciences and Comprehensive Studies in Agriculture*, No.3:46-54 (in Chinese).

BOOKS AND BOOK CHAPTERS

2018. 11) He, Chansheng, Lanhui Zhang, Yibo Wang. 2018. Impacts of Heterogeneity of Soil Hydraulic Properties on Watershed Hydrological Processes. Science Press, Beijing, ISBN: 978-7-03-057331-5. Monograph.
2014. 10) He, C., L. Zhang, X. Zhang, and S. Eslamian. 2014. Chapter 28: Water Security: Concept, Measurement, and Operationalization. In: Saeid Eslamian (ed): *Handbook of Engineering Hydrology, Vol. 3: Environmental Hydrology and Water Management* (CRC Press Taylor and Francis Group) ISBN: 9781466552494, pp.544- 555 (peer reviewed).
2013. 9) He, C., Lanhui ZHANG, Li FU, Yi LUO, Lanhai LI, Carlo DeMarchi, 2013. Simulation of River Flow for Downstream Water Allocation in the Heihe River Watershed, Northwest China. In: B. Fu and K. B. Jones (eds): *Landscape Ecology for Sustainable Environment and Culture*, Springer, New York, pp. 173-186 (peer reviewed).
- 8) Stow, C. and T. Hook (ed) (.C. He as a member of project team). 2013. Saginaw Bay Management Report, NOAA Technical Memorandum GLERL-160. NOAA Great Lakes Environmental Research Laboratory, Ann Arbor, MI 48108. 51 p.
2012. 7) He, C., C. DeMarchi, W. Tao, and T.H. Johengen. 2012. Modeling Distribution of Point and Nonpoint Sources Pollution Loadings in The Saginaw Bay Watersheds, Michigan. In: Lawrence, P.L. edited book: *Geospatial Tools for Urban Water Resources*. Springer, New York, p97-113.
2008. 6) Croley II, T.E. and C. He. 2008. Ch.9. Spatially Distributed Watershed Model of Water

He's CV

and Materials Runoff. In: Ji, W. (ed). Wetland and Water Resource Modeling and Assessment: A Watershed Perspective. CRC Press, New York, p.99-112.

5) He, C. and T.E. Croley II. 2008. Ch.10. Estimating Nonpoint Source Pollution Loadings in the Great Lakes Watersheds. In: Ji, W. (ed). Wetland and Water Resource Modeling and Assessment: A Watershed Perspective. CRC Press, New York, p.115-127.

4) Bao, S., H. Lin, Q. Zhang, P. Gong, W. Ji, J. Qi, C. He, B. Xu, R. Yi, C. Chen, F. Kung, H. Qi, and Y. Liu. 2008. Comparative Analysis of The Development and Management of Domestic and International Lakes. Final Report of the Greater Poyang Lake Eco-Economic District Key Project to Jiangxi Provincial Government (in Chinese), 216 p (peer reviewed).

2007. 3) Croley, T. E., II, C. He, J. F. Atkinson, and D. F. Raikow, 2007. Resource Shed Definitions and Computations. NOAA Technical Memorandum GLERL-141, Great Lakes Environmental Research Laboratory, Ann Arbor, Michigan, 43pp.

2) He, C. and T.E. Croley II. 2007. Integration of GIS and Visualization for Distributed Large Basin Runoff Modeling of the Great Lakes Watersheds. In: Scarpati and Jones (eds). Environmental Change and Rational Water Use. Orientación Gráfica Editora S.R.L., Buenos Aires, Argentina, pp. 247-260 (peer reviewed).

1) He, C., S. Cheng, and Y. Luo. 2007. Water Diversions and China's Water Shortage Crisis. In Robinson, P.J., T. Jones and M-K Woo (eds). Managing Water Resources in a Changing Physical and Social Environment. IGU Home of Geography Publication Series, Società Geografica Italiana, Rome. Pp. 89-102 (peer reviewed).

PRESS INTERVIEWS

Interviewed by Mark Schwerin, WMU News and Communications Specialist on Impacts of Hurricanes Harvey and Irma on Texas and Florida floods, 9/6/2017.

Interviewed by Mark Schwerin, WMU News and Communications Specialist on Asian Carp, 1/22/2010.

Interviewed by Mark Schwerin, WMU News and Communications Specialist on status of Asian Carp to Lake Michigan,, 9/10/2010.

PROFESSIONAL PRESENTATIONS

Invited Lectures

In recent years, have given 147 lectures/presentations at different institutions including: University of Michigan, Michigan State University, University of Minnesota, NOAA Great Lakes Environmental Research Laboratory, Northern Illinois University, University of Bucharest (Romania), Pontifical Catholic University of Peru (PUCP), Potsdam Institute of Climate Impact Research (Germany), Chinese Academy of Sciences, The Institute of Hydrologic Sciences and Hydraulic Power, The Ministry of Water Resource, The Yellow River Conservancy

He's CV

Commission, Shanghai Jiao Tong University, Beijing Normal University, China Agricultural University, Lanzhou University, Northwest University, Northwest A & F University, Taiwan University, Feng Chia University, Wuhan University, etc.

EXTERNAL US GRANTS

2012. 26) PI, "Spatially distributed modeling of water and pollutant transport in the Great Lakes watersheds", USGS State Water Resources Research Institute Program (MSU) (2012MI203B) (\$15,000), 03/01/2012-02/28/2013.
2007. 25) PI, Analysis of Point and Nonpoint Source Data for Spatially Distributed Water Quality Modeling in the Great Lakes Basin. NOAA'S GREAT LAKES ECOSYSTEM RESEARCH (\$35,640), 9/1/2007-8/31/2008.
- 24) Co-PI. Adaptive Integrated Framework (AIF): Understanding multiple stressors in coastal ecosystems: Advancing adaptive management in Saginaw Bay. NOAA Center for Sponsored Coastal Ocean Research (NA07NOS4780198), (total funding: \$3,694,480, WMU He portion: \$90,047)) with . Stow et al. from NOAA GLERL, Univ. of Michigan, MSU, and other institutions, 09/01/2007-8/31/2012.
2006. 23) PI, Development of a spatial distributed watershed water quality model in the Greta Lakes Basin. NOAA Great Lakes Ecosystem Forecasting (**\$47,678**), Sept.1, 2006 to Aug.31, 2007.
- 22) Co-PI, Forecasting the Causes, Consequences, and Potential Solutions for Hypoxia in Lake Erie. NOAA Coastal Ocean Program, (NA070AR4320006), (\$2,200,000, WMU Chansheng He portion, **\$99,300**) with Donald Scavia et al. from Univ. of Michigan, NOAA GLERL, and other institutions, 8//1/ 2006-7/31/2011)
2005. 21) PI, Development of A Distributed Watershed Water Quality Model in the Great Lakes Basin. NOAA Great Lakes Environmental Research Laboratory (**\$33,745**), 6/1-8/31/2005 (contract).
2001. 20) PI, Development of A New Generation Large Basin Runoff Model, National Research Council/NOAA Senior Research Associateship Award (**\$47,100**), Sept. 2001-Aug.2002.
2000. 19) P.I., Monitoring and Analysis of Temporal Patterns of Water Quality in the Davis Creek. Kalamazoo Foundation (**\$8,400**), Oct. 2000 - Sept., 2001.
1999. 18) P.I., Monitoring and Analysis of Land Use Effect on Water Quality in the Upper Stream of the Davis Creek Watershed, Kalamazoo Foundation (**\$5,600**), Sept.-Aug.,2000.
1998. 17) P.I., Analysis of Land Use Effect on Storm Runoff and Nonpoint Source Pollution in the Davis Creek Watershed, Kalamazoo Foundation (**\$25,000**), Oct., 1998-Dec., 1999.

He's CV

1997. 16) Co-PI, Modeling Nonpoint Source Pollution in Dowagiac River, U.S. EPA/Michigan Department of Environmental Quality (**\$29,000**), in collaboration with L. Hughes of Dept. of Geoscience.
1996. 15) PI, Received an educational grant of **\$116,700** (equivalent) from the Environmental Systems Research Institute (ESRI), Inc. for ArcView with the Spatial Analyst and Network Analyst Extensions to the Department of Geography.
- 14) Co-PI, NSF Instrumentation and Laboratory Improvement proposal, Interdisciplinary Earth System Modeling in Geography Curriculum (**\$48,500**, plus WMU matching of \$80,000), with Ellen Cutrim and Ilya Zaslavsky.
1994. 13) Co-PI, Constructing A Land Transformation Model of the Saginaw Bay Watershed for Use by Policy Analysts and Researchers of Global Environmental Change. U.S. EPA (**\$440,000**, with Stuart Gage of MSU).
1993. 12) PI, Modeling Agricultural Nonpoint Source Pollution Potential in the Cass River Watershed. US EPA (**\$60,000**).
1992. 11) PI, CIESIN (Consortium for International Earth Science Information Network) Saginaw Bay Watershed Project, Integration of Multiple Human, Economic, Physical and Biological Databases in Support of Local Decision Making (**\$29,174**).
- 10) PI, CIESIN Saginaw Bay Watershed Project, Integration of GIS and Computer Models for Water Quality Management (**\$30,000**).
- 9) PI, Saginaw Bay Area Environmental Policy, Planning and Management Survey Report, Saginaw Bay National Watershed Initiative Grant (**\$4,000**).
- 8) Assessment of Land Use Impact on Water Quality in the Saginaw Bay Watershed, Michigan Water Research Institute Program Grant (**\$10,700**), Part II.
- 7) Co-PI, Economic Impact of Saginaw Bay Area Subirrigation Development, USDA Soil Conservation Service (**\$38,900**).
1991. 6) Co-PI, Evaluation of Water Resources and Land Use Impact in the Saginaw Bay Watershed, Michigan Water Research Institute Program Grant (with F. D'Itri) (**\$17,604**) Part I.
- 5) Co-PI, Impact of Withdrawing Water from Saginaw Bay for Subirrigation, USDA SCS (with T.C. Edens) (**\$23,500**).
1990. 4) Co-PI, Water Resource Allocation and Optimization for Subsurface Irrigation in the Saginaw Valley, USDA SCS (with T.C. Edens) (**\$22,000**).

He's CV

- 3) Co-PI, Water Resource Management System for Expanded Irrigation in the Saginaw Valley Part II, Michigan Water Research Institute Program Grant (With T.C. Edens)(\$10,000).
1989. 2) Co-PI, Water Resource Management System for Expanded Irrigation in the Saginaw Valley Part I, Michigan Water Research Institute Program Grant (with J. Bartholic) (\$11,718).
- 1) Co-PI, Groundwater Availability in the Saginaw Bay Area, USDA SCS Saginaw Bay Subirrigation /Drainage Project Grant (with K. Kittleson) (\$22,000).

TEACHING

Western Michigan University, Kalamazoo, Michigan (8/1995 – present)

- GEOG 3030 Geographic Inquiry
- GEOG 3500 Principles of Conservation and Environmental Management
- GEOG 5300 Climate Change and Geography
- GEOG 5530 Water Resources Management
- GEOG 5450 Study Abroad Program: China's Water Resources Management
- GEOG 5550 Contemporary Issues in Resources Management
- GEOG 5820 Remote Sensing of the Environment
- GEOG 6610 Geographic Research
- GEOG 7000 Master's Thesis
- GEOG 7100 Independent Research

SABBATICAL LEAVES

2001-2002, 2008-2009, 2015-2016

PROFESSIONAL SERVICE

UNIVERSITY SERVICE/COMMITTEES

WMU Provost Search Committee, 2017-2018.

WMU International Education Council, 2018-2021.

WMU Distinguished Faculty Scholar Selection Committee, member, 2016-.

The College of Arts & Sciences Promotion Committee, Chair, 2011-2012; member, 2002 and 2006-.

The College of Arts & Sciences International Committee, member, 2013-2014.

He's CV

WMU Graduate Studies Council, Vice Chair, 6/2005-4/2006; Secretary, 6/ 2004-5/ 2005; Member, 5/ 2002-4/ 2006.

WMU Research Policies Council –Select Committee on Research Personnel Issues, 2006.

WMU Joint Undergraduate and Graduate Studies Council Taskforce to Review the Framework for Institutional Effectiveness and Academic Program Planning Documents, 2003 – 2004.

WMU Research Misconduct Investigation Committee, Office of Vice President for Research, 2007- 2008.

WMU Faculty Senate, 2002-2003.

DEPARTMENT SERVICE/COMMITTEES

Geography Graduate Advisor, 5/2006-4/2008 and 9/2009-4/2010.

Undergraduate Advisor to Environmental Analysis and Resources Management major, 1/2003-5/2006.

Department Executive Committee, 1995- 1998, 2000-2006, and 2010-2015 and 2016-2019.

Department of Geography Curriculum Committee, 5/2006-4/2008 and 9/2009-4/2010.

Department of Geography Colloquium Coordinator, 9/2017-4/2018.

Department of Geography Sabbatical Committee, 9/2017-4/2019.

Department of Geography Assessment Committee, 2009-2011.

Departmental Environmental Analysis and Resources Management Curriculum Review Committee, Chair, 10/2004-2/2006.

Departmental Lucia Harrison Endowment Fund Committee, 2003-2007. Chair, 9/2005-8/2007.

Departmental Graduate Program Review Committee, 2005-2006.

Departmental Chair Search Committee, 2004-2006.

Department Tenure and Promotion Committee, 2000- present, Chair, 2002-2003.

Departmental review committees for faculty positions: 1996-present, Chair 2003-2004.