

## CURRICULUM VITAE

**Chris (Christian) S. Renschler**  
**Prof. Dr. rer. nat. Dipl.-Geoökol.**

**1. CONTACT INFORMATION****University Address:**

Department of Geography, University at Buffalo (SUNY)  
 116 Wilkeson Quadrangle  
 Buffalo, NY 14261, USA  
 Tel.: +1-716-645-0480; Fax: +1-716-645-2329  
 Email: [renschr@buffalo.edu](mailto:renschr@buffalo.edu)

**Current Local Address:**

43 Chateau Terrace South  
 Amherst, NY 14226, USA  
 Tel: +1-716-839-3319

**2. EDUCATION**

- 8/25/2000 Ph.D. in Natural Sciences (Dr. rer. nat.), University of Bonn, Bonn, Germany.  
*Magna cum laude*  
 Dissertation: *Strategies for implementing natural resources management tools*  
 Major: Geography  
 Minor: Soil Science
- 7/31/1996 M.Sc. in Geocology (Dipl.-Geoökol.), Technical University of Braunschweig,  
 Braunschweig, Germany. *Magna cum laude*  
 Thesis: *Soil erosion risk mapping by means of GIS and hydrologic modeling.*  
 Majors: Geocology, Soil Sciences, Agroecology, and System Analysis  
 Minors: Remote Sensing and Ecology
- 10/15/1992 B.Sc. in Geocology, Technical University of Braunschweig, Braunschweig  
 Germany.  
 Majors: Geocology, Soil Sciences, Biology, and Mathematics/Statistics  
 Minors: Chemistry and Mineralogy/Geology

**Educational Certificates**

- 6/1/2012 Full Member of ASCE (nominated, reviewed and awarded)  
 American Society of Civil Engineers (ASCE), Reston, VA
- 6/2/2000 Applied Management Principles Program  
 Krannert Graduate School of Management & School of Sciences  
 Purdue University, West Lafayette, IN
- 9/3/1994 Scottish Universities Summer School in Physics  
 North Atlantic Treaty Organization (NATO) Science & Environment  
 University of Dundee, Dundee, Scotland

**3. EMPLOYMENT HISTORY**

- Since Full Professor (with tenure)  
 09/01/2020 Department of Geography, University at Buffalo, Buffalo, NY
- Since Associate Professor (with tenure)  
 09/01/2007 Department of Geography, University at Buffalo, Buffalo, NY

- 08/15/2001 - Assistant Professor (tenure-track)  
 08/31/2007 Department of Geography, University at Buffalo, Buffalo, NY
- 01/01/2000 - Post-doctoral Researcher / Research Associate  
 08/14/2001 Department of Agricultural & Biological Engineering/US Dept. of Agriculture-  
 Agricultural Research Service (USDA-ARS) National Soil Erosion Research Laborator  
 (NSERL), Purdue, West Lafayette, IN
- 01/01/1999 - Visiting Scientist  
 12/31/1999 Department of Earth & Atmospheric Sciences, Purdue University
- 10/01/1996 - Research Assistant  
 12/31/1998 Department of Geography, University of Bonn, Bonn, Germany
- 05/01/1995 - Associated Researcher Trainee  
 05/01/1996 Water Resources Division, Intl. Institute for Geo-Information Sciences & Earth  
 Observation (ITC), University of Twente, Enschede, The Netherlands
- 09/05/1994 - Associated Researcher Trainee  
 11/15/1994 Water Resources Division, Intl. Institute for Geo-Information Sciences & Earth  
 Observation (ITC), University of Twente, Enschede, The Netherlands
- 09/01/1993 - Research/Teaching Assistant  
 09/01/1994 Inst. Photogrammetry & Remote Sensing, Technical University of Braunschweig,  
 Braunschweig, Germany
- 5/01/1989 - Civil Servant  
 11/31/1990 Malteser Hilfsdienst e.V., Aalen, Germany

#### 4. AWARDS

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- 2019 Achievement in GIS Award  
 Environmental Systems Research Institute (ESRI), Redlands, CA
- 2016 OECD Co-operative Research Programme Fellow  
 Univ. of Natural Resources and Life Sciences (BOKU), Vienna, Austria  
 Organisation for Economic Co-operation and Development, Paris, France
- 2015 U.S. Fulbright Scholar  
 Univ. of Natural Resources and Life Sciences (BOKU), Vienna, Austria  
 J.W. Fulbright Foreign Scholarship Board, Washington, DC
- 2013 Community Scholar-in-Residence Fellowship  
 Civic Engagement and Public Policy Strategic Initiative  
 University at Buffalo, Buffalo, NY  
 Beneficiary: Michael Gates, Dir. Emergency Mgmt., Seneca Nation of Indians
- 2012 "Geography Matters" Video Competition (Runner up)  
 Association of American Geographers (AAG), Washington, DC.  
 Available at: <https://www.youtube.com/watch?v=KGcjdhosOdU>
- 2011 Quake Summit 2011 Media Competition (Video Award for Outreach)  
 G.E. Brown, Jr. Network for Earthquake Engineering Simulation (NEES) &  
 MCEER (Multidisciplinary Center for Earthquake Engineering Research) Purdue  
 University, West Lafayette, IN
- 2009 ASABE Superior Paper Award  
 American Society of Agricult. & Biolog. Engineers (ASABE), St. Joseph, MI

- 2007 SSSA Soil & Water Conservation Young Scholar Award  
Soil Science Society of America (SSSA), Madison, WI
- 1999 DAAD Fellowship. German Academic Exchange Service - Deutscher Akademischer Austauschdienst (DAAD), Bonn, Germany
- 1997 International Conference Travel Award. Donors' Association for Promoting Sciences and Humanities in Germany-Stifterverband f. d. Deutsche Wissenschaft, Essen, Germany
- 1994 Graduate Student Fellowship. European Union (EU) Community Program for Education & Training in Technology, Brussels, Belgium
- 1994 Travel Award University of Dundee, United Kingdom". Advanced Study Institute, North Atlantic Treaty Organization (NATO), Brussels, Belgium

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## 5. HONORS

- 2020 Guest Professor  
Geographic Information Science Program, Singapore Institute of Management (SIM), Singapore, Singapore
- 2018 Guest Professor  
Dept. of Biological and Environmental Engineering, Graduate School of Agriculture & Life Sciences, The University of Tokyo, Tokyo, Japan
- 2018 Guest Professor  
Institute of Hydraulics and Rural Water Management (IHLW), Univ. Natural Resources and Life Sciences (BOKU), Vienna, Austria
- 2017 Guest Professor of Integrated Environmental Management  
Department of Geography and Regional Research, Faculty of Earth Sciences, Geography and Astronomy, University of Vienna, Vienna, Austria
- 2015/2016 Fulbright Visiting Professor  
Department of Landscape, Spatial and Infrastructure Sciences (RaLI), Institute of Surveying, Remote Sensing & Land Information (IVFL), Univ. of Natural Resources and Life Sciences (BOKU), Vienna, Austria
- 2013 Visiting Lecturer  
College of Resource, Environment and Tourism, Capital Normal University, Beijing, China
- 2012 Appointed Member of the New York State RESPOND Commission to find ways to ensure readiness to respond to future weather-related disasters  
Governor Andrew Cuomo, State of New York, Albany, NY
- 2008 Visiting Fellow in Geographical Sciences  
School of Geography, Planning and Architecture, University of Queensland, Brisbane, Australia
- 2003/2004 Researcher in Residence  
College of Agriculture & Life Sciences (CALS), Cornell, Ithaca, NY

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## 6. EDITORIAL POSITIONS

- Since 2020 Editorial Board Member – *Remote Sensing* (Impact Factor 4.118) MDPI, Basel, Switzerland

- Since 2006 Editorial Board Member - *Journal of Earth Science Informatics* (Impact Factor 1.525)  
Springer-Verlag GmbH, Heidelberg, Germany
- 2014 Publication Committee Member - 3rd ACM SIGSPATIAL International Workshop on  
Analytics for Big Geospatial Data (BigSpatial-2014), Nov 4, 2014, Dallas, TX, USA
- 2013-2014 Editor - *Geomorphorum*. AAG Geomorphology Specialty Group, On-line
- 2012 GI Zeitgeist (GIZ) 2012 – Young researchers forum on Geographic Information  
Science, Mar 16-17 2012, Muenster, Germany
- 2010-2011 Guest Editorial Board Member - *Semantic Web Journal*. Special Issue on Semantics  
for Geochange. On-line Publication. IOS Press, The Netherlands
- 2004-2007 Co-Guest Editor – *Geomorphology*, Special Issue on Geomorphology and Ecosystem,  
Elsevier, The Netherlands
- 2000-2001 Editorial Assistant - *Soil Erosion Research for the 21st Century*, Edited by Ascough  
II, J.C. and Flanagan, D.C. American Society of Agricultural Engineers (ASAE), St.  
Joseph, MI

### Manuscript Reviewer

*In alphabetical order: Advances in Water Resources, Annals of the Association of American Geographers (AAG), Catena, Decision Support Systems, Decision Support Systems Journal and Electronic Commerce, Earth Science Review, Environmental Management, Environmental Modelling & Software, Geomorphology, Hydrological Processes, International Journal of Geographical Information Science (IJGIS), Journal of Computing in Civil Engineering, Journal of Earth Science Informatics, Journal of Environmental Quality, Journal of Hydrology, Journal of the American Water Resources Association, Journal of World Association of Soil and Water Conservation, Natural Hazards, Photogrammetric Engineering and Remote Sensing, Professional Geographer, Soil Science, Soil Science Society of America Journal, Transactions in GIS, Transactions of the ASABE/ASAE.*

### Book Proposals Reviewed

- 2008 Watershed Management, John Wiley & Sons, Inc.
- 2007 Erosion Modeling, Wiley-Blackwell

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## 7. PROFESSIONAL AND PUBLIC SERVICE

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### Professional Memberships

- Since 2000 Association of American Geographers (AAG)
- Since 2000 Soil Science Society of America (SSSA)
- Since 2000 American Geophysical Union (AGU)
- Since 1996 International Association of Hydrological Sciences (IAHS)
- 2012-2019 American Society of Civil Engineers (ASCE)  
(full membership was awarded to non-degree engineer through nomination and review process)
- 2002-2008 International Environmental Modeling Software Society (iEMSS)

### Professional Society Appointments and Service

- 2018-2019 ASCE-SEI-AIT Committee Member (invited, applied and approved), Advances in Information Technology (AIT), Analysis and Computation Technical Activities Division (TAD), Structural Engineering Institute (SEI), American Society of Civil Engineers (ASCE)
- 2012-2018 ASCE DRSIC Sub-Committee Member (invited, applied and approved), Disaster Resilience of Structures, Infrastructures and Communities (DRSIC), Structural Engineering Inst. (SEI), American Soc. Of Civil Engineers (ASCE)
- 2015-2018 Advisory Board Member, AAG-Geomorphology Specialty Group (GSG)
- 2014-2015 Chair AAG-GSG
- 2013-2014 Secretary-Treasurer AAG-GSG (elected)
- 2012-2013 Chair, Awards Committee AAG-GSG
- 2009-2011 Member, Awards Committee AAG-GSG (elected)

### Conference and Technical Session Organization

- Since 2020 Session and Panel Organizer "OUTSTEPS Lower Great Lakes – A Regional Systems Approach that Expands the Reach of Geography to Collaborate with Stakeholders", Association of American Geographers (AAG), Seattle, WA, USA
- Since 2019 Chair and Local Host – Inst. Electrical and Electronics Eng. (IEEE) Geoscience and Remote Sensing Society (GRSS) 2021 STRATUS Conference (Systems and Technologies for Remote Sensing Applications Through Unmanned Aerial Systems)
- Since 2019 Chair and Local Host – 2019 OUTSTEP Lower Great Lakes (Organizing Urban Transects for a Sustainable Transformation of Economic Partnerships across the Lower Great Lakes)
- Since 2017 Technical Program Committee Member, International Conference on Advanced Geographic Information Systems, Applications, and Services (GEOProcessing)
- 2018-2019 Co-Chair – Inst. Electrical and Electronics Eng. (IEEE) Geoscience and Remote Sensing Society (GRSS) 2019 STRATUS workshop (110 attendees)
- 2017 Session and Panel Co-organizer "All Things Nuclear", Association of American Geographers (AAG), Boston, MA, USA
- 2014 Session Chair – GIS Case Studies in Environmental and Landscape Policy, Association of American Geographers (AAG), Tampa, FL
- 2008 Session Chair – 2<sup>nd</sup> Center for GeoHazards Studies Conference on Natural Disasters in Small Communities: How Can We Help? Center for GeoHazard Studies, University at Buffalo
- 2005 Conference Chair and Local Host, 35<sup>th</sup> Intl. Binghamton Geomorphology Symposium (BGS) on Geomorphology & Ecosystems (100 attendees)
- 2003-2007 Steering Committee Member, International Binghamton Geomorphology Symposium (BGS) Series

**Competitive Grant Panels (Invited On-Site)**

2019	Fulbright U.S. Scholar Program – Institute of International Education (IIE), Washington, DC.
2019	NSF- National Science Foundation Data-Intensive Research in Science and Engineering (DIRSE)
2014	NSF-National Science Foundation Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) SBIR/STTR
2013, 2014	NSF-National Science Foundation Crosscutting/NSF-wide – Science, Engineering and Education for Sustainability NSF-Wide Investment (SEES)
2011	NSF-National Science Foundation Partnership for Innovation (PFI)
2010	USDA/EPA-U.S. Department of Agriculture/Environmental Protection Agency Cooperative State Research, Education, and Extension Service (CSREES)
2007	EPA-U.S. Environmental Protection Agency STAR Fellowships – Geography
2003-2005	EPA-U.S. Environmental Protection Agency STAR Fellowships – Geography

**Competitive Grant or Fellowship Panels (Invited Off-Site)**

2019	Science to Achieve Results Contaminated Sites, Natural Disasters, Changing Environmental Conditions and Vulnerable Communities: Research to Build Resilience. National Center for Environmental Research (NCER) – Environmental Protection Agency (EPA)
2018	Fulbright U.S. Scholar Program – Institute of International Education (IIE)
2018	DFG-Deutsche Forschungsgemeinschaft (Fernerkundung – Remote Sensing)
2018, 2013	NSF-National Science Foundation Earth Sciences (EAR)
2012	NSF-National Science Foundation Behavioral and Cognitive Sciences (BCS)
2011	NSF-National Science Foundation Geography and Spatial Sciences (GSS)
2004	Ontario Ministries of Environment, and Agriculture, Food and Rural Affairs Nutrient Management Joint Research Program, Canada (2)
2003	WRRI-Water Resources Research Institute University of North Carolina (2)

**Tenure and Promotion Cases Reviewed**

2016	Promotion to Associate Professor (Habilitation), University of Kiel, Germany
2014	Tenure and Promotion to Associate Professor, Texas A&M University, USA
2014	Tenure and Promotion to Associate Professor, University of Tennessee, USA
2011	Tenure to Associate Professor, North Carolina State University, USA
2010	Tenure and Promotion to Associate Professor, University at Buffalo, USA

**8. UNIVERSITY SERVICE**


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Since 2018	Faculty Member	RENEW Sustainable Urban Environments Focus Area
Since 2018	Faculty Member	Fulbright U.S. Scholar Program Review Committee
Since 2015	Faculty Member	Center for Multisource Information Fusion (CMIF)

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Since 2015	Faculty Member	Inst. For Sustainable Transportation & Logistics (ISTL)
Since 2010	Faculty/Investigator	MCEER-Earthquake Engineering to Extreme Events
Since 2001	Faculty Member	Natl. Center for Geographic Inform. & Analysis (NCGIA)
2018-2019	Faculty Member	Working Group Smart Spaces > Intelligent Environments
2014-2016	Member	Sustainability Teaching Committee
2014	Committee Member	Collaborative Initiative on Resiliency (UB/Stony Brook)
2014	Organizer	Student Course Project Presentations, UB Earth Day Week
2014	Presenter	Discovery Seminar <i>Climate Change, Sea Level Rise &amp; NY</i>
2013	Presenter	UB Summer Lecture Series
2012	Panel Member	UB Internal Review -NSF Major Research Instrument.
2011-2013	Research Scientist	Calspan University at Buffalo Research Center (CUBRC)
2007-2014	Faculty Advisor	UB2020 Strategic Strength Initiative: Extreme Event
2007-2008	Committee Member	Institutional Repository Task Force
2007	Panel Member	Physical & Engineering Sciences Panel UB2020 Scholars
2006-2010	Research Scientist	MCEER—From Earthquake Eng. To Extreme Events
2006	Member	Search Committee, Inst. Local Gov. & Regional Growth
2005	Participant	Niagara-Exploration of Cross Border Research
2004	Committee Member	Curriculum Development - Environment & Society Inst.
2003, 2005	Judge	Poster Competition - Scientific Research Society
2001-2014	Advisory Board	Natl. Center for Geographic Inform. & Analysis (NCGIA)

## 9. COLLEGE SERVICE – COLLEGE OF ARTS AND SCIENCES (CAS)

Since 2010	Participating Faculty	BS Environmental Geosciences (Senior Capstone Course)
Since 2005	Advisory Board	CAS Center for GeoHazards Studies (Founding Member)
2019	Participating Faculty	CAS Class Visitation Program
2013	Presenter	CAS Introductory Course (CAS 101)
2007	Member	Geology Search Committee (Senior Faculty Search)
2002	Member	Junior Faculty Search Committee (CAS Dean)
2001-2008	Member	Committee Sloan Professional Science Masters Certificate
2001, 2004	Member	Geology Search Committee (Junior Faculty Searches)

## 10. DEPARTMENTAL SERVICE

Since 2006	Director	Geographic Information & Analysis Lab (GIAL)
Since 2001	Director	Landscape-based Environmental System Analysis & Modeling (LESAM) Laboratory
2019	Organizer	A-GIAL Earth Day Event – Geography Alumni Networking
2014	Organizer	SUNY at Buffalo - Alumni and Friends Gathering at the Meeting Association of American Geographer (AAG)
2014	Member	Website Review Committee

2013, 2014	Member	Search Committee (Junior Faculty Searches)
2013	Director	Acting Director of Undergraduate Studies
2010-2016	Organizer	Annual Alan MacPherson Friendly Golf - Geography Alumni Networking
2009-2013	Organizer	Student Project Presentations for Geogr. Awareness Week
2007-2009	Chair	Graduate Studies Brochure Committee
2007, 2009	Member	Search Committee (Senior Faculty Searches)
2003-2007	Organizer	Student Project Presentations for Geogr. Awareness Week
2003	Member	Geography Digital Library Project Committee
2002-2003	Organizer	Phys. Geogr./Earth Sys. Science Program Development
2002-2003	Member	Redesign Geography Webpage Committee
2002	Member	Search Committee (Junior Faculty Search)
2002	Organizer	Geography Awareness Week
2001-2003	Organizer	Geography Colloquium Series

## 11. COMMUNITY SERVICE

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Since 2019	Board Member	Buffalo Squash & Racquet Association (BSRA), Buffalo, NY
Since 2019	Participating Faculty Member	Environmental Management Council (EMC), Community Climate Change Task Force (C3TF), Erie County, NY
Since 2017	Participating Faculty	Buffalo Commons, Partnership for the Public Good, Buffalo, NY
Since 2011	Elected Member	Local Emergency Planning Committee (LEPC), Erie County, NY, USA
2016-2019	Invited Expert	Joint Food and Agriculture Organization (FAO)/Intl. Atomic Energy Agency (IAEA), Div. of Nuclear Techniques in Food and Agriculture, United Nations, Vienna, Austria Missions: Enhancing Regional Capacities for Assessing Soil Erosion and the Efficiency of Agricultural Soil Conservation Strategies through Fallout Radionuclides; Soil Erosion Modeling Workshop in Nanning, China; Complementing Conventional Approaches with Nuclear Techniques towards Flood Risk Mitigation and Post-Flood Rehabilitation Efforts in Asia
2018	Guest Researcher	Non-Profit Organization (NPO) Mount Fuji Research Station, Tokyo, Japan
2017	Invited Expert	National Park Thayatal, National Park Centre, Hardegg, Austria
2016	Invited Expert Reviewer	US Department of Agriculture Agricultural Research Service, Washington, DC
2016	Invited Expert	



- Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems Trade and Agriculture Directorate. Organisation for Economic Co-operation and Development (OECD), Paris, France  
Mission: Vulnerability of Agricultural Production Networks and Global Food Value Chains due to Natural Disasters
- 2012 Appointed Member of RESPOND Commission by NY Governor Andrew Cuomo  
Mission: Find ways to ensure readiness to respond to future weather-related disasters
- 2009 Invited Member  
Center for Resilience Research Work Group, Biosecurity, University of Pittsburgh Medical Center (UPMC). Research Findings on Community Resilience and Their Implications for Federal Policymaking, Capitol Hill-Washington, DC
- 2008 Invited Expert  
U.S. Dept. of Agriculture (USDA) National Tilth Laboratory, Ames, IA
- 2008 Member  
Habitat Conservation Targets, Buffalo and Niagara Riverkeeper, Buffalo, NY
- 2004-2005 Invited GIS Expert  
Cornell University Nutrient Management Spear Program, Ithaca, NY

## 12. COURSES TAUGHT

### University at Buffalo, Buffalo, NY

Courses	Number Title (credits)	credits (#students)	
Undergrad	Geo101 Earth Systems Science I (3)	42	(2,578)
	Geo352 Introduction to Soil Sciences (3)	30	(303)
Cross-listed	Geo444/547 Advanced Earth System Science (3)*	6	(20/26)
	Geo470/570/Law777 Integr. Environmental Management (3)*	39	(183/108)
	<i>Note: This course is the Senior Capstone Course for the B.Sc. Environ. Geosciences</i>		
	Geo475/575 Landscape Modeling with GIS (3)*	42	(73/124)
	Geo475/575 GIS Data Science Project Management	3	(7/12)
Graduate	Geo504 GIScience and Environmental Assessment (3)*	6	(14)
	Geo655 Environm. Assessment w. GIS & Remote Sensing (3)*	3	(8)

### University of Tokyo, Tokyo, Japan

Courses	Number Title (credits)	credits (#students)	
	Integrated Watershed Mgmt. & Soil and Water Modeling	2	(9)

### Natural Resources & Life Sciences University, Vienna, Austria

Courses	Number Title (credits)	credits (#students)	
	BOKU 857003/857004 Geospatial Project Management (2)*	2	(14)

### University of Vienna, Vienna, Austria

Courses	Number Title (credits)	credits (#students)	
	290174-1 Integrated Environmental Management	3	(11)
	290082 PR Practical Training Geomorph. & Natural Hazards	1	(20)

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290175-1 Process-based soil/water conservation modeling*	5	(10)
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### Professional Workshops Organized and Taught

Total courses (with an average of about 30 professionals enrolled each)	23
Bureau of Land Management - National Training Center (BML-NTC)	6
U.S. Army Corps of Engineers - Buffalo District (USACE)	2
UN Food and Agricultural Organization (FAO)/Intl. Atomic Energy Agency IAEA	2
Soil and Water Conservation Society (SWCS)	2
Inst. Electrical and Electronics Eng. (IEEE) Geoscience & Remote Sensing Society	1
American Society of Agricultural and Biological Engineers (ASABE/ASAE)	1
American Society of Agronomy & Soil Science Society of America (ASA-SSSA)	1
International Institute for Geo-Information Science and Earth Observation (ITC)	1
International Soil Conservation Organization (ISCO)	1
U.S. Forest Service - Fundamentals of Physical Science Conference	1
MCEER – National Institute for Standards and Technology	1
Cornell University - Integrated Nutrient Management Program	1
Rochester Inst. of Technology (RIT) – Info. Product Lab. f. Emergency Response	1
University at Buffalo - Civil, Structural and Environmental Engineering	1
University at Buffalo - OUTSTEP -	1

### 13. RESEARCH SUPERVISION

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#### Post-doc Scholars/Visiting Research Scientists as Host (5 total)

2014	Dr. Haddad, Bouchra; Profesora Ayudante Doctor, Facultad de Ciencias Ambientales y Bioquímica, Universidad de Castilla-La Mancha, Toledo, Spain (2 months)
2011	Dr. Wang, Yanbing; Associate Professor, College of Resource, Environment and Tourism, Capital Normal University, Beijing, China (6 months)
2010-2012	Dr. Hayes, Graham; Post-doc Scholar/Adjunct Faculty, University at Buffalo, Buffalo, NY (2 years 7 months)
2007	Dr. Tanarro García, Luis Miguel; Profesor Contratado Doctor Interino, Dept. de Análisis Geográfico Regional y Geografía Física, University, Complutense, Madrid, Spain (4 months)

#### Ph.D. Dissertations as Committee Chair (10 total)

2018	Misa Yasumiishi. PhD in Geography; All But Dissertation. <i>Inductive Construction of Multi-Dimensional Environmental Processes from Point Soil Data- Iitate, Fukushima, Japan.</i>
2016	Bajo, Jorge. PhD in Geography. <i>Reducing Social Vulnerability through Integrated Volcanic Hazard Mapping-Santa Ana (Ilamatepec) Volcano, El Salvador.</i> Since 2014: Assistant Professor, Erie County Community College, Buffalo, NY. Since 2015: Lecturer, Geography and Planning, Buffalo State College, Buffalo, NY

- 2015 Rios, Fernando. PhD in Geography. *Uncertainty and Sensitivity Analysis of Boundaries for Vector-Based Features in Geographical Information Systems*. 2015-2017: Research Data Management Fellow at the Council on Library and Information Resources. Johns Hopkins University, Baltimore, MD. Since 2017: Research Data Management Specialist, University of Arizona, Tucson, AZ
- 2012 Minkowski, Martin. PhD in Geography. *Incorporating Advancements in Science, Technology, and User Demands into State-of-the-Art Earth-Systems Modeling to Empower Novel-GIS Users in Natural Resource Decision Making: A Geographic Information Science Perspective*. Since 2012: Product Engineer, ESRI, Redlands, CA
- 2012 Roussie, Suzanne. PhD in Geography. *A Spatial and Dynamic Analysis of Wetland Resilience in Coastal Louisiana*. 2012-2014: Research Staff, New York State/USDA, Lockport, NY. Since 2015: GIS/PACS Data Specialist, Praxair, Buffalo, NY
- 2012 Majka, Kevin. PhD in Geography. *Incorporating Drive Behavior in Crash Prediction Modeling*. Since 2010: Research Scientist, Center for Transportation Injury Research (CentIR), Calspan University at Buffalo Research Center (CUBRC), Buffalo, NY
- 2008 Lee, Taesoo. PhD in Geography. *Modeling Best Management Practices in a small watershed using process based modeling approaches and GIS - The cases of row cropping, filter strip, and grassed waterway*. 2007-2011: Assistant Research Scientist, Spatial Science Laboratory, Ecosystem Science and Management Department, Texas A&M University, College Station, TX. Since 2011: Assistant Professor, Department of Geography, Chonnam National University, Gwangju, South Korea
- 2007 Miller, Mary Ellen. PhD in Civil, Structural, and Environmental Engineering, co-chair with Joseph Atkinson. *Remote Sensing and Hydrological Modeling of Burn Scars*. 2007-2011: Post-doctoral Research Scientist, Colorado State University, Fort Collins, CO; Since 2011: Research Scientist, Earth, Planetary and Space Sciences Institute (EPSSI), Michigan Technological University, Houghton, MI
- 2006 Namikawa, Laercio M. PhD in Geography. *Multiple Representations of Elevation for Dynamic Process Modeling*. Since 2006: Senior Research Scientist, Divisão de Processamento de Imagens (DPI), Instituto Nacional de Pesquisas Espaciais (INPE; Brazilian Space Agency), São José dos Campos, Brazil
- 2004 Sorokine, Alexandre. PhD in Geography. *Representation of Scale in Geographic Information Science*. Since 2004: Research Scientist, Earth, Planetary and Space Sciences Institute (EPSSI), Oak Ridge National Laboratory, Oak Ridge, TN

#### **Ph.D. Dissertation as Committee Member (9 total)**

- 2021 Yasser Abbasi. PhD in Water Resources (Principal: Christiaan Mannaerts), Faculty of Geo-information Sciences & Earth Observation (ITC), University of Twente (UT), Enschede, The Netherlands. *Evaluating and Monitoring Environmental Exposure to Pesticides Residues in the Lake Naivasha River Basin (Kenya)*
- 2021 Bell, Marissa. PhD in Geography (Principal: Trina Hamilton). *Energy Justice and Consent: The Implementation and Evaluation of Consent in Nuclear Waste Siting Policy and Process*
- 2014 Lewis, Tonya. PhD in Physical Geography (Principal: Sean Bennett): *Developing Effective Environmental Justice Policies through a Synergistic Analysis of Space, the Environment, & the Law*

- 2013 Frazier, Amy. PhD in Geography (Co-Principals: David Mark and Leo Wang): *Transforming Landscape Ecology Evaluations of Species Invasions Using Sub-Pixel Remote Sensing Classifications*
- 2011 Chien, Huichen. PhD in Geography (Principal: Scott Mackay): *Time-Series Analysis for Watershed Scale Predictions of Water Quantity and Quality Export from Agricultural Watersheds*
- 2009 Hess, Dale. PhD in Geology (Principal: Jason Briner): *Geospatial analysis of controls on subglacial bedform morphometry in the New York Drumlin Field – implications for Laurentide Ice Sheet dynamics*
- 2007 Stinton, Adam. PhD in Geology (Principal: Michael Sheridan): *Effects of changes in valley geomorphology on the behavior of volcanic mass-flows*
- 2005 Rayburg, Scott. PhD in Geography (Principal: Athol Abraham): *3-D Morphologic And Hydraulic Characteristics of Pools, Riffles and Pool-Riffle Sequences*
- 2004 Hu, Shixiong. PhD in Geography (Principal: Athol Abraham): *Resistance to Overland Flow on Plane and Rough Beds*

#### **Ph.D. Dissertations as Foreign Exchange Student Host (8 total)**

- 2018 Nigus, Demelash Melaku. PhD in Rural Water Management (Principal: Andreas Klik): *Assessing the impact of stone bunds on runoff and erosion processes in the Northern Ethiopian Highlands*. Institute of Hydraulics and Rural Water Management (IHLW), Univ. of Natural Resources and Life Sciences (BOKU), Vienna, Austria
- 2015 Calvo Cabrerizo, Letitia. PhD in Physical Geography (Principal: David Palacios): *Hidrovolcánicos en el Volcán de Fuego de Colima, México*. Universidad Complutense, Madrid, Spain
- 2013 Llaves, Alejandro. PhD in Geographic Information Science (Principal: Werner Kuhn): *Integration of Geosensor Data by means of an Event Abstraction Layer*. University of Münster, Münster, Germany
- 2013 Stasch, Christopher. PhD in Geographic Information Science (Principal: Edzer Pebesma): *Spatio-temporal Aggregation in the Sensor Web*. University of Münster, Münster, Germany
- 2012 DeFelice, Giorgio. PhD Degree in Geographic Information Science (Principal: Christian Freksa): *A reasoning system to derive spatial information from mixed quantitative-qualitative-semantic representations*. University of Bremen, Bremen, Germany
- 2012 Devaraju, Anusuriya. PhD Degree in Geographic Information Science (Principal: Werner Kuhn): *Representing and Reasoning about Geographic Occurrences in the Sensor Web*. University of Münster, Münster, Germany
- 2009 Walkowski, Alexander Christoph. PhD Degree in Geographic Information Science (Principal: Ulrich Streit): *Modellbasierte Optimierung mobile Geosensornetzwerke für raumzeitvariante Phänomene*. University of Münster, Münster, Germany
- 2007 Muñoz Salinas, Esperanza. PhD in Physical Geography (Principal: David Palacios): *Los Lahares del Popocatepetl: Obtencion y Tratamiento de la Información Para la Prevencion de Riesgos*. Universidad Complutense, Madrid, Spain

**External Reader of Ph.D. Dissertations (5 total)**

- 2018 Pandey, Brij Kishor. PhD in Water Resources Development and Management: *Hydrological Response Simulation under Land Use and Climate Change Scenarios*. Indian Inst. Technology IIT Roorkee, India
- 2015 Mondal, Arun. PhD in Water Resources Development and Management: *Assessment of Climate Change and Landuse Impact on Soil Erosion and Soil Carbon Loss*. Indian Inst. Technology IIT Roorkee, India
- 2011 Nikam, Bhaskar K., PhD in Water Resources Development and Management: *Conjunctive Use Planning of Planning of Water Resource using RS & GIS*. Indian Inst. Technology IIT Roorkee, India
- 2010 Gaikwad, Pravin Chandra G.; PhD in Water Resources Development and Management: *Leachate transport from fly ash slurry pond*. Indian Inst. Technology IIT Roorkee, India
- 2007 Singh, Kangjam Sonamani; PhD in Water Resources Development and Management: *Soil erosion modelling in Loktak Lake catchment: an integrated approach*. Indian Inst. Technology IIT Roorkee, India

**M.A./M.S. Theses as Committee Chair only (38 total)**

- 2020 Lynch, Jonathan (MA)
- 2019 Chaudhary, Manita (MS)
- 2019 Zhang, Han (MS)
- 2019 Leet, Allison (MS)
- 2018 O'Brien, Brittany (MS)
- 2017 Bidell, Ben (MA)
- 2017 Flagler, Jared (MA, now PhD student at Purdue University)
- 2016 Yuming, Zou (MS)
- 2015 Park, Jae Young (MS)
- 2015 Yasumiishi, Misa (MS, now PhD ABD at the University at Buffalo)
- 2014 Brown, Patrick (MA)
- 2014 Lui, Natalie (MA)
- 2014 Zang, Jin (MA)
- 2014 Cao, Yanjia (MS, completed PhD at the University of Maryland)
- 2014 Xiong, Haoyi (MS, now PhD student at the University of Iowa)
- 2013 Clarkson, Brian (MS)
- 2013 Gu, Shengnan (MS)
- 2013 Robitaille, Zachary (MA)
- 2013 Lu, Meng (MS, completed PhD at University of Muenster, Germany)
- 2012 Chen, Weiyi (MA)
- 2012 Li, Fang (MA)
- 2012 Mendieta, Ryan (MA)
- 2012 Wang, Zhihao (MS)
- 2011 Ameroso, Emmanuelle (MS)
- 2011 Perry, Heidi (MA)
- 2011 Yang, Jiue-an (MA, completed PhD at San Diego State Univ./UC–Santa Barbara)
- 2010 Collins, Heather (MA)
- 2010 Evans, Phillip (MA)
- 2009 Yu, Haifeng (MA)

2008	Sheehan, David (MA)
2007	Sambandhan, Loganathan Vijay (MA)
2006	Hoerle, Gary Allen (MA)
2006	Minkowski, Martin (MA, completed PhD at the University at Buffalo)
2006	Roussie, Suzanne (MA, completed PhD at the University at Buffalo)
2005	Harvey, Merrissa (MA)
2005	Malinowski, Matthew (MA)
2005	Mussel, Jennifer (MA)
2002	Koopman, Marc (MA)

### **Undergraduates as Project Advisor (13 total)**

2020	Pellew, Shamroy (BS Computer Sciences)
2019	Nguyen, Maylan (GIS and Environmental Geosciences)
2019	Lovell, Kathryn (BS Environmental Geosciences; UB Honors College)
2019	Zheng Chengyao (Geography)
2018	Lauren Martinek (Environmental Studies)
2018	Jared Harsanyi (Geography and Sociology)
2017	Nathan Long (Environmental Geosciences)
2016	Watson, Samuel (Social Sciences Interdisciplinary/Minor: GIS)
2014	Adam, Matthew (Geography)
2014	Harary, David C. (Geography/International Trade/Economics)
2014	Little, Susan (Environmental Geosciences)
2012	Burke, Kyle (Pharmacy)
2010	Saunders, Patrick (Geography/Minor: Cultural Anthropology)
2008	Martin, Christopher (Geography/Minor: Computer Science)

### **Current Research Supervision (5 total)**

Since 2020	Zhang, Han (PhD Geography)
Since 2020	Roorbach, Jay (PhD Geography)
Since 2019	Townsend, Jonathan (PhD Geography)
Since 2020	Monzillo, Michael (MA Geography)
Since 2020	Hwang, Sun Ho (MA Geography)

## **14. GRANT SUPPORT**

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<i>Total:</i>	~ \$2.9M (~\$1.4M as PI; ~\$1.1M as Co-PI; ~0.4M as Senior Personnel)
<i>Current:</i>	~ \$160k (~\$160k as PI)

### **As Principal Investigator (PI): Competitive Grants – International (total \$42,800)**

2015-2016 (\$20,800)	Renschler, C. S.: Integrated Environmental Modeling and Management with GIS. The PEOPLES' Resilience Framework: Quantifying Sustainable Soil and Water Conservation. J. William Fulbright Foreign Scholarship Board (FSB), Washington, DC
2015-2016 (\$10,000)	Renschler, C. S.: Quantification of impacts of and on soil and water management on community resilience and sustainable development. Co-operative Research Programme Fellowship, Organisation for Economic Co-operation and Development (OECD), Paris, France

2008 Renschler, C. S.: Application for Visiting Fellow in Geographical Sciences.  
 (\$12,000) University of Queensland, School of Geography, Planning and Architecture (GPA),  
 Brisbane, Australia

**As Principal Investigator (PI): Competitive Grants – Federal/State (total \$625,852)**

2019-2020 Renschler, C. S., Clark, S. S., McPherson, R., Park, J., & Shelly, M.: A Conference  
 (\$50,000) Organizing Urban Transects for a Sustainable Transformation of Economic  
 Partnerships across the Lower Great Lakes (OUTSTEP-LGL). Concepts for  
 Advancing Sustainable Urban Systems (SUS) Research Networks, Geography and  
 Spatial Sciences (GSS), National Science Foundation (NSF), Washington, DC

2018-2019 Renschler, C. S., & Yasumiishi, M.: DDR: Inductive Construction of Multi-  
 (\$10,290) Dimensional Environmental Processes from Point Soil Data. Doctoral Dissertation  
 Research, Geography and Spatial Sciences (GSS), National Science Foundation  
 (NSF), Washington, DC

2007-2010 Renschler, C. S., Eguchi, R. T., Chang, S., & Pine, J. C.: Community Resilience  
 (\$270,000) Index – A Conceptual Framework and Implementation Strategy. National Oceanic  
 and Atmospheric Administration (NOAA), Washington, DC

2005-2007 Renschler, C. S., & Elliot, W. J.: Geo-Spatial Wildland Management Tool –  
 (\$132,752) Cumulative Watershed Effects Extension. Joint Fire Science Program (JFSP): U.S.  
 Dept. of Interior/U.S. Dept. of Agriculture (USDA) Forest Service, Washington, DC

2005-2006 Renschler, C. S.: Geomorphology and Ecosystems – 36<sup>th</sup> Binghamton  
 (\$25,791) Geomorphology Symposium (BGS 2005). Geography and Spatial Sciences (GSS),  
 National Science Foundation (NSF), Washington, DC

2005-2006 Renschler, C. S., Jacobi, R., & Lasker, H.: Binghamton Geomorphology Symposium.  
 (\$3,000) Conversations in the Disciplines, State University of New York (SUNY), Albany,  
 NY

2004-2006 Renschler, C. S., & Elliot, W. J.: Geo-Spatial Wildland Management Tool. Joint  
 (\$134,019) Fire Science Program (JFSP): U.S. Dept. of Interior/ U.S. Dept. of Agriculture  
 (USDA) Forest Service, Washington, DC

**As Principal Investigator (PI): Non-competitive Contracts – Federal/State (total \$468,965)**

2021-2023 Renschler, C. S.: Climate Change Adaption Plan for Seneca Nation of Indians, USA.  
 (in contracting phase)

2001-2005 Renschler, C. S.: What are the lasting impacts on water quality projects in  
 (\$150,000) agricultural watersheds? Purdue University/U.S. Dept. of Agriculture (USDA)  
 Cooperative State Research, Education and Extension Service (CSREES),  
 Washington, DC

2016 Renschler, C. S. & Batta, R.: Determination of Hazardous Materials Commodity  
 (\$17,000) Flow Patterns. Hazardous Material Emergency Preparedness (HMEP)/Local  
 Emergency Planning Committee (LEPC), Erie County, NY

2012 Renschler, C. S.: Superstorm Sandy – Wind and Water Damage Assessment.  
 (\$25,620) ImageCat/Federal Emergency Management Agency (FEMA), Washington, DC

2009-2011 (\$135,000)	Renschler, C. S.: Developing a Long-term Strategy for Integrated Erosion, Runoff, Sediment and Flood Management in the Cattaraugus Creek and Clear Creek Watersheds, NY. U.S. Army Corps of Engineers (US ACE), Buffalo, NY
2008-2010 (\$87,345)	Renschler, C. S.: WEPP/GeoWEPP Distance Learning Modules. U.S. Dept. of Interior Bureau of Land Management (BLM), Denver, CO
2006-2008 (\$90,000)	Renschler, C. S.: Modeling sediment yields in the Cattaraugus Creek watershed, NY. U.S. Army Corps of Engineers (US ACE), Buffalo District, Buffalo, NY
2003-2005 (\$54,000)	Renschler, C. S.: Wildfire Airborne Sensor Program (WASP) Demonstration Project. Rochester Institute of Technology/National Aeronautics and Space Agency (NASA), Rochester, NY

**As Principal Investigator (PI): Competitive Grants – Intramural (UB) (total \$83,592)**

2013-2014 (\$3,000)	Renschler, C. S.: Community Scholar-in-Residence Fellowship: Michael Gates, Director of Emergency Management of the Seneca Nation of Indians. UB2020 Civic Engagement and Public Policy Strategic Initiative
2007-2008 (\$5,000)	Renschler, C. S.: Soil Testing Kits. College of Arts and Sciences Equipment Needs Related to Courses
2006-2007 (\$36,945)	Renschler, C. S., Sheridan, M. F., & Patra, A.: m <sup>4</sup> r <sup>4</sup> – A Collaborative Platform for Supporting Extreme Events Research. National Science Foundation (NSF) Engineering Research Center (ERC) MCEER
2006-2007 (\$4,000)	Renschler, C. S. & Sheridan, M. F.: Implementation of the Geospatial Project Management Tool (GeoProMT). Educational Technology Center - Education Technology Grant
2005-2006 (\$2,500)	Renschler, C. S. BGS “Geomorphology and Ecosystems”. College of Arts and Sciences Fund for Conferences
2005-2006 (\$8,000)	Renschler, C. S. & Sheridan, M. F.: Geo-Spatial Project Management Tool (GeoProMT) for Interdisciplinary Class Work & Project Collaboration. Educational Technology Center - Education Technology Grant
2003-2004 (\$14,147)	Renschler, C. S., Atkinson, J., & Sultan, M.: Environmental Modeling of Burn Scars for Erosion Risk Assessment. Environmental Science Interdisciplinary Research Program, Environment & Society Inst. (ESI)
2002-2003 (\$10,000)	Renschler, C. S., & Sheridan, M. F.: Geo-spatial Dynamic Response Assessment Tool (GeoDRAT). Environmental Science Interdisciplinary Research Program, Environment & Society Inst. (ESI).

**As Co-PI: Competitive Grants – Federal/State (~\$1,145,836; Renschler’s share in %)**

2020 (\$7,500) (~33%)	Clark, S., Renschler, C. S., & Shelly, M.: Building Local Partnerships and Shared Data to support Community Resilience: The CIVIC Innovation Challenge to COVID-19. The State University of New York, Albany, NY
2019-2020 (\$99,476) (100%)	Renschler, C. S.: Climate Vulnerability Assessment for Erie County, New York. Erie County Environment and Planning Department / NYS Department of Environmental Conservation, Albany, NY



2011-2013 (\$205,498) (~33%)	Farry, M., Bisantz, A. M., & Renschler, C. S.: ENVISION-Enhanced Human Social Cultural Behavior (HSCB) Visualization. U.S. Department Of Defense–Office Naval Research, Washington, DC
2009-2013 (\$720,000) (~33%)	Van Aardt, J. A., Vodacek, T., & Renschler, C. S.: Partnership for Innovation–Information Products Laboratory for Emergency Response (IPLER). National Science Foundation (NSF), Washington, DC
2009-2010 (\$69,751) (~50%)	Reinhorn, A. M., Renschler, C. S., & Bruneau, M.: A Framework for Defining and Measuring Disaster Resilience at the Community Scale. National Institute of Standards and Technology (NIST), Washington, DC
2008-2009 (\$9,361) (~50%)	Christopher, S. F., & Renschler, C. S.: P and N monitoring and modeling in the Cattaraugus Creek Watershed and Lake Erie. New York State Great Lakes Protection Fund (NYGLPF), Albany, NY
2007-2008 (\$4,250) (~15%)	Sheridan, M.F, Pitman, E.B., Patra, A., Renschler, C. S., Csatho, B., & Simpson, N.: Conversations in the Disciplines-Natural Disasters in Small Communities: How can we help? State University of New York (SUNY), Albany, NY
2006-2008 (\$30,000) (50%)	Carpenter, B., & Renschler, C. S.: Cattaraugus Creek Multi-County Watershed Protection Strategy. New York Rivers United/U.S. Environmental Protection Agency (EPA) Great Lakes National Program Office, Chicago, IL

**As Co-PI: Competitive Grants – Intramural (UB) (~\$31,175; share in %)**

2006-2007 (\$2,000) (~20%)	Schneekloth, L., Shannon, M., Renschler, C. S., Page, W., & Boyer, B.: Governing the Niagara Escarpment (Renewal). Baldy Center for Law and Social Policy
2005-2006 (\$4,175) (~30%)	Schneekloth, L., Shannon, M., & Renschler, C. S.: Governing the Niagara Escarpment: Options for Managing Complex Public-Private Landscapes. Baldy Center for Law and Social Policy
2002 (\$25,000) (~30%)	Sultan, M., Atkinson, J., & Renschler, C. S.: Real-time Monitoring of Land, Lakes, and Atmosphere from Space-borne Observations. Interdisciplinary Research and Creative Activities Fund (IRCAF)

**As Senior Personnel: Competitive Grants – Federal (~\$418,623; share in %)**

2013-2017 (\$1,400,921) (~8%)	Patra, A., Bursik, M., Jones, M., Kosar, T., & Valentine, G.: SI2-SSI: Collaborative Research: Building Sustainable Tools and Collaboration for Volcanic and Related Hazards. Software Infrastructure for Sustained Innovation, National Science Foundation (NSF), Washington, DC
2010-2013 (\$1,906,891) (~8%)	Valentine, G., Bursik, M., Jones, M. Calder, E., & Gallo, S.: CDI-II: VHub: Collaborative Research: Cyberinfrastructure for Volcano Eruption and Hazards Modeling and Simulation. Cyber-Enabled Discovery and Innovation, National Science Foundation (NSF), Washington, DC
2003-2010 (\$3,859,676) (0%)	Mark, D., Sheridan, M. F., Atkinson, J., Zubrow, E. B., & Smith, B.: IGERT Geographic Information Science. Integrative Graduate Education and Research Traineeship Program, National Science Foundation (NSF), Washington, DC

2001-2005 Patra, A., Sheridan, M. F., Mark, D., Pitman, E. B., & Bloebaum, C.: ITR/AP+IM: (\$1,924,981) Information Processing for Integrated Observation and Simulation Based Risk Management of Geophysical Mass Flows. Information Technology Research, (~8%) National Science Foundation (NSF), Washington, DC

#### As Collaborator: Competitive Grants – International (non-salaried travel cost support)

2010-2013 Thouret, J.-C., et. al.: LAHARISK (volcanic debris flows and related floods): in situ flow measurements, rheometry, flow modelling, quantitative assessment of damage, mitigation and financial protection. French National Research Agency- L'Agence nationale de la recherche (ANR), Paris, France (€465,043)

2008-2013 Kuhn, W., Freksa, C., & Mark, D.: International Research Training Group (IRTG): Semantic Integration of Geospatial Information. German Research Foundation- Deutsche Forschungsgemeinschaft (DFG), Bonn, Germany (€832,812)

## 15. PUBLICATIONS

*If lead author is not senior author, senior authorship is underlined. As senior author, Renschler encouraged his student/post-doc advisees (indicated with an asterisk\*) to be lead authors and is listed either as second or as last author.*

*Impact: The 2019 5-year Journal Impact Factor (5y-JIF) is provided.*

#### Edited Book (also published as a Special Issue in a Refereed Journal)

1. Thoms, M., **Renschler, C. S.**, & Doyle, M. W. (Guest Editors) (2007). Geomorphology and Ecosystems. *Geomorphology*, 89(1-2). 240 p. ISSN 0169-555X.

*Note: This special issue published on 09/01/2007 in the journal "Geomorphology" (3.851 5-yr-JIF) was also published as the traditional "Maroon Book" by Elsevier.*

#### Edited Books (published by Governmental Agencies)

2. Fulajtar, E., Mabit, L., **Renschler, C. S.**, & Lee Zhi Yi, A. (2017). Use of 137Cs for soil erosion assessment. Food and Agriculture Organization (FAO) & International Atomic Energy Agency (IAEA) of the United Nations, Vienna. 76 p. ISBN 978-92-5-130050-3. *Publicly available at: <http://www.fao.org/3/a-i8211e.pdf>*

*Note that this publication is a FAO book and went through the official review process of the UN FAO and IAEA agencies (more information at <http://www.fao.org/3/a-i7429e.pdf>).*

1. **Renschler, C. S.**, Fraizer\* A. E., Arendt, L. A., Cimellaro, G. P., Reinhorn, A. M., & Bruneau, M. (2010). *A Framework for Defining and Measuring Resilience at the Community Scale: The PEOPLES Resilience Framework*. U.S. Department of Commerce National Institute of Standards and Technology (NIST), Office of Applied Economics Engineering Laboratory NIST GCR 10-930. Gaithersburg, MD. 73 p. (ISSN 1520-295X).

*Note that this edited technical report prepared for the Office of Applied Economics Engineering Laboratory publication (available at <https://www.hSDL.org/?view&did=790013>) was also made available as MCEER Technical Report MCEER-10-0006; ISSN 1520-295X.*

**Bibliometric Indices Summary**

Web of Science (WoS) Categories: Researcher ID Q-5908-2017	Citation Report (WoS Core Coll.)	Publons Metrics (WoS Core Coll.)	SCOPUS (Elsevier)	Google Scholar
Publications Listed	37	60	55	132
Times Cited (with self-citation)	1462	1497	1822	3463
Times Cited (without self-citation)	1422	-	-	-
h-index	19	19	20	25
i10-index	26	-	-	48
i100 index	3	-	-	8
<i>Since 2016:</i>				
<i>Times Cited</i>	711	715	814	1810
<i>Average Citations per Year</i>	142	143	173	362
<i>h-index</i>	-	-	-	19
<i>i10-index</i>	-	-	-	29

**Articles in Refereed Journals (Web of Science Core Collection Citation Report)**

33. **Renschler, C.S.**, & Han Zhang (2020). Long-term, process-based, continuous simulations for a cluster of six smaller, nested rangeland watersheds near Tombstone, AZ (USA): Establishing a baseline for event-based runoff and sediment yields. *Science of the Total Environment Vol. 717*, 137089, 17 p. **(5.589 5y-JIF)**
32. Luetzenburg, G., Bittner, M.J., Calsamiglia, A., **Renschler, C.S.**, Estrany, J., & Poepl, R. (2019). Climate and land use change effects on soil erosion in two small agricultural catchment systems; Fugnitz-Austria, Can Revull-Spain. *Science of the Total Environment, Vol. 704*, 135389, 15. **(5.589 5y-JIF)**
31. Poepl, R., Dilly, L., Haselberger, S., **Renschler, C.S.**, & Baartman, J. (2019). Combining soil erosion modelling with connectivity analyses to assess lateral fine sediment input into agricultural streams. *Water* 11(9), 1793, 20 p. **(2.721 5y-JIF)**
30. Melaku\*, M. D., **Renschler, C.S.**, Flagler\*, J., Bayu, W., & Klik, A. (2018). Assessing the impact of soil and water conservation structures on runoff and erosion processes through measurements and modeling in the Northern Ethiopian Highlands. *Catena* 169: 140-150. **(3.636 5y-JIF)**
29. Melaku\*, N.D., **Renschler, C.S.**, Holzmann, H., Strohmeier, S., Bayu, W., Zucca, C., Ziadat C., & Klik, A. (2018). Prediction of soil and water conservation structure impacts on runoff and erosion processes using SWAT model in the Northern Ethiopian highlands. *Journal of Soils and Sediments* 18(4): 1743-1755. **(2.736 5y-JIF)**
28. **Renschler, C.S.**, & Wang\*, Z. (2017). Multi-source Data Fusion and Modeling to Assess and Communicate Complex Flood Dynamics to Support Decision-making for Downstream Areas of Dams: The 2011 Hurricane Irene and Schoharie Creek Floods, NY. *Intl. Journal of Applied Earth Observation and Geoinformation* 62: 157-173. **(4.433 5y-JIF)**
27. Rios\*, F., & **Renschler, C. S.** (2017). A New Combined Assessment of Mixed Uncertainty in Spatial Models: Conceptualization and Implementation. *Transactions in GIS* 21(4): 661-682. **(2.276 5y-JIF)**
26. Cimellaro, G.P.; Tinebra, A., **Renschler, C.**, & Fragiadakis, M. (2017). Closure to "New Resilience Index for Urban Water Distribution Networks". *Journal of Structural Engineering* 143 (8), 17002-17002. **(2.420 5y-JIF)**
25. Cimellaro, G.P.; Tinebra, A., **Renschler, C.**, & Fragiadakis, M. (2016). New Resilience Index for Urban Water Distribution Networks. *Journal of Structural Engineering* 142 (8). **(2.420 5y-JIF)**

24. Cimellaro, G. P., **Renschler, C.**, Reinhorn, A. M., & Arendt, L. (2016). PEOPLES: A Framework for Evaluating Resilience. *Journal of Structural Engineering* 142 (4), 160631-1606313. **(2.420 5y-JIF)**  
*Note: "Editor's Choice for the Month": January 2017)*
23. Devaraju\*, A., Kuhn, W., & **Renschler, C. S.** (2015). A Formal Model to Infer Geographic Events from Sensor Observations. *International Journal of Geographical Information Science*, 29 (1), 1-27. **(2.866 5y-JIF)**
22. Cimellaro, G. P., Scura\*, G., **Renschler, C. S.**, Reinhorn, A. M., & Kim, H. U. (2014). Rapid building damage assessment system using mobile phone technology. *Earthquake Engineering and Engineering Vibration*, 13(3), 519-533. **(1.166 5y-JIF)**
21. Frazier\*, A. E., **Renschler, C.S.**, & Miles, S. B. (2013). Evaluating post-disaster ecosystem resilience using MODIS GPP data. *International Journal of Applied Earth Observation and Geoinformation*, 21, 43–52. **(4.433 5y-JIF)**
20. Flanagan, D. C., Frankenberger, J. R., Cochrane, T. A., **Renschler, C. S.**, & Elliot, W. J. (2013). Geospatial Application of the Water Erosion Prediction Project (WEPP) Model. *Transactions of the ASABE*, 56(2), 591-601. **(1.475 5y-JIF)**
19. van Aardt, J. A., McKeown, D., Faulring, J. W., Raqueno, N. G., Casterline, M. V., **Renschler, C. S.**, Eguchi, R., Messinger, D. W., Krzaczek, R., Cavillia, S., Antalovich, J., Philips, N., Bartlett, B. D., Salvaggio, C., Ontiveros, E.M., & Gill, S. (2011). Geospatial disaster response during the Haiti earthquake: A case study spanning airborne deployment, data collection, transfer, processing, and dissemination. *Photogrammetric Engineering and Remote Sensing*, 77, 943-952. **(2.031 5y-JIF)**
18. Tanarro\*, L. M., Andres, N., Zamorano, J. J., Palacios, D. & **Renschler, C. S.** (2010). Geomorphological evolution of a fluvial channel after primary lahar deposition: Huiloac Gorge, Popocatepetl volcano (Mexico). *Geomorphology*, 122, 178-190. **(3.851 5y-JIF)**
17. Muñoz-Salinas\*, E., **Renschler, C. S.**, & Palacios, D. (2009). A GIS-based method to determine the volume of lahars: Popocatepetl volcano, Mexico. *Geomorphology*, 111, 61-69. **(3.851 5y-JIF)**
16. Muñoz-Salinas\*, E., **Renschler, C. S.**, Palacios, D., & Namikawa\*, L. M. (2008). Updating channel morphology in digital elevation models: lahar assessment for Tenenepanco-Huiloac Gorge, Popocatepetl volcano, Mexico. *Natural Hazards*, 45(2), 309-320. **(2.276 5y-JIF)**
15. Meyer, C. R., **Renschler, C. S.**, & Vining, R. C. (2008). Implementing Quality Control on a Random Number Stream to Improve a Stochastic Weather Generator. *Hydrological Processes*, 22(8), 1069-1079. **(3.226 5y-JIF)**  
*Note: Renschler is corresponding and senior author.*
14. **Renschler, C. S.**, & Flanagan, D.C. (2008) Site-Specific Decision-Making Based on GPS RTK Survey and Six Alternative Elevation Data Sources: Soil Erosion Prediction. *Transactions of the ASABE*, 51(2), 413-424. **(1.475 5y-JIF)**  
*Note: This article received the 2009 ASABE Superior Paper Award of the American Society of Agricultural and Biological Engineers.*
13. **Renschler, C. S.**, Doyle, M. W., & Thoms, M. (2007). Geomorphology and Ecosystems: Challenges and keys for success in bridging disciplines. *Geomorphology*, 89(1-2), 1-8. **(3.851 5y-JIF)**

12. Sorokine\*, A., Bittner, T., & **Renschler, C.S.** (2006). Ontological Investigation of a Multiscale Ecosystem Classification Using the National Hierarchical Framework of Ecological Units as an Example. *Geoinformatica*, 10(3), 313-335. **(1.664 5y-JIF)**
11. **Renschler, C. S.**, & Lee\*, T. (2005). Spatially distributed Assessment of Short- and Long-term Impacts of Multiple Best Management Practices in Agricultural Watersheds. *Journal of Soil and Water Conservation*, 60(6), 446-456. **(2.610 5y-JIF)**
10. Nearing, M. A., Jetten, V., Baffaut, C., Cerdan, O., Couturier, A., Hernandez, M., Le Bissonnais, Y., Nichols, M.H., Nunes, J.P., **Renschler, C.S.**, Souchère, V., & van Oost, K. (2005). Modeling response of soil erosion and runoff to changes in precipitation and cover. *Catena*, 61, 131–154. **(3.636 5y-JIF)**
9. **Renschler, C. S.** (2005). Scales and Uncertainties in volcano hazard prediction – optimizing the use of GIS and models. *Journal of Volcanology and Geothermal Research*, 139 (1-2), 73-87. **(2.543 5y-JIF)**
8. Patra, A. K., Bauer, A. C., Nichita, C. C., Pitman, E. B., Sheridan, M. F., Bursik, M., Rupp, B., Webb, A., Stinton, A., Namikawa\*, L., & **Renschler, C. S.** (2005). Parallel Adaptive Numerical Simulation of Dry Avalanches over Natural Terrain. *Journal of Volcanology and Geothermal Research*, 139(1-2), 1-21. **(2.543 5y-JIF)**
7. Gómez, J. A., Battany, M., **Renschler, C. S.**, & Fereres, E. (2003). Evaluating the impact of soil management on soil loss in olive orchards. *Soil Use and Management*, 19(2), 127-134. **(1.855 5y-JIF)**
6. **Renschler, C. S.** (2003). Designing geo-spatial interfaces to scale process models: The GeoWEPP approach. *Hydrological Processes*, 17, 1005–1017. **(3.226 5y-JIF)**
5. **Renschler, C. S.**, Flanagan, D. C., Engel, B. A., Kramer, L. A., & Sudduth, K. A. (2002). Site-Specific Decision-Making Based on GPS RTK Survey and Six Alternative Elevation Data Sources: Watershed Topography and Delineation. *Transactions of the ASAE*, 45(6), 1883-1895. **(1.475 5y-JIF; 17 WoS)**
4. **Renschler, C.S.**, & Harbor, J. (2002). Soil erosion assessment tools from point to regional scales - The role of geomorphologists in land management research and implementation. *Geomorphology* 47, 189-209. **(3.851 5y-JIF)**
3. **Renschler, C. S.**, Mannaerts, C., & Diekkrüger, B. (1999). Evaluating spatial and temporal variability of soil erosion risk - rainfall erosivity and soil loss ratios in Andalusia, Spain. *Catena*, 34(3-4), 209-225. **(3.636 5y-JIF)**
2. Bormann, H., Diekkrüger, B., & **Renschler, C. S.** (1999). Regionalization concept for hydrological modeling on different scales using a physically based model: results and evaluation. *Physics and Chemistry of the Earth – Part B*, 24(7), 799-804. **(0.574 JIF (2003))**
1. Bormann, H., Diekkrüger, B., **Renschler, C. S.**, & Richter, O. (1999). Regionalization scheme for the simulation of regional water balances using a physically based model system. *Physics and Chemistry of the Earth – Part B*, 24(1-2), 43-48. **(0.574 JIF (2003))**

#### Articles in Refereed Conference Proceedings (Web of Science Core Coll. Citation Report)

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Please note that the type of subscriptions at some universities will not visualize these in the Web of Science Core Collection Citation Report but in Publons Metrics - that are based on the Web of Science Core Collection – list and tags all these (WOS) in addition to the ones listed above.

7. Rupp, B., Bursik, M., Namikawa\*, L., Webb, A., Patra, A. K., Saucedo, R., Macias, J. L., & **Renschler, C.** (2006). Computational modeling of the 1991 block and ash flows at Colima Volcano, Mexico. In: C. Siebe, J. L. Macías, & G. J. Aguirre-Díaz (Eds.). *Neogene-Quaternary Continental Margin Volcanism: A Perspective from México*. Geological Society of America. Penrose Conference Series, GSA Special Papers 2006, 402, 237-252. doi: 10.1130/2006.2402(11).
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3. **Renschler, C. S.**, Diekkrüger, B., & Mannaerts, C. (2000). Chapter 37. Regional Soil Erosion Risk Evaluation Using an Event-Based GIS-Model-Scenario Technique. In: J. Laflen, J. Tian, & C. Huang (Eds.). *Soil Erosion & Dryland Farming, Yangling, Peoples Republic of China*. CRC Press. pp. 365-379.
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17. Kammouh, O., Zamani Noori, A., **Renschler, C.**, & Cimellaro, G.P. (2017). Resilience Quantification of Communities based on PEOPLES framework. 16<sup>th</sup> World Conference on Earthquake *16WCEE 2017*, Santiago, Chile, January 9-13 2017. 9p.
16. Cao\*, Y., **Renschler, C. S.**, & Jacquez, G. M. (2014). A Data Model to Capture Spatial and Temporal Exposure. *GIScience 2014*. Vienna, Austria. September 23-26, 2014. 6p. DOI: 10.13140/RG.2.1.1039.1445
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13. Cimellaro, G. P., Solari, D., Arcidiacono, V., **Renschler, C. S.**, Reinhorn, A. M., & Bruneau, M. (2014). Community Resilience Assessment Integrating Network Interdependencies. *10<sup>th</sup> U.S. National Conference on Earthquake Engineering*. Anchorage, Alaska. July 21-25, 2014. 10 p. DOI: 10.4231/D3930NV8W
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10. Llaves\*, A., & **Renschler C.** (2012) Observing Changes in Real-Time Sensor Observations. *AGILE'2012 International Conference on Geographic Information Science*, Avignon, France. April 24-27, 2012. In: J. Gensel, D. Josselin & D. Vandenbroucke (Eds.). *Multidisciplinary Research on Geographical Information in Europe and Beyond. Lecture Notes in Geoinformation and Cartography*. Springer. pp. 388-392. ISBN: 978-90-816960-0-5.
9. **Renschler, C.**, Reinhorn, A. M., Arendt, L., & Cimellaro, G. P. (2011). The P.E.O.P.L.E.S. Resilience Framework: A conceptual approach to quantify community resilience. In: M. Papadrakakis, M. Fragiadakis, & V. Plevris (Eds.). *COMPdyn 2011 - 3<sup>rd</sup> International Conference in Computational Methods in Structural Dynamics and Earthquake Engineering*, Corfu, Greece, May 26-28, 2011. pp. 2014-2023. DOI: 10.13140/RG.2.1.3355.1767
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7. **Renschler, C. S.**, Frazier\*, A. E., Arendt, L. A. Cimellaro, G. P., Reinhorn, A. M., & Bruneau, M. (2010). Developing the 'PEOPLES' resilience framework for defining and measuring disaster resilience at the community scale. *9<sup>th</sup> US and 10<sup>th</sup> Canadian Conference on Earthquake Engineering*. Toronto, Canada, July 25-29, 2010. 10 p. CD-ROM. doi: 10.13140/RG.2.1.1563.4323

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### Articles as Contributions to Edited Books (Invited)

3. **Renschler, C. S.**, N. D. Melaku, A. O. Omotayo, & A. Klik (2020). Quantifying Impacts of Climate and Land Use Changes on Soil and Water Management, Community Resilience, and Sustainable Development in Agricultural Watersheds', in Breiling, M. and V. Anbumozhi (eds.), *Vulnerability of Agricultural Production Networks and Global Food Value Chains Due to Natural Disasters*. Jakarta, Indonesia: Economic Research Institute for ASEAN and East Asia, pp.86-103.
2. **Renschler, C. S.** (2015). The PEOPLES Resilience Framework: Integrating Quantitative Measures and Modeling for Disaster Risk Reduction and Sustainable Development. In: B. M. Ayyub, G. E. Galloway & R. N. Wright (Eds.). *Measurement Science for Sustainable Construction and Manufacturing, Volume I. Position Papers*, National Institute of Standards and Technology, Office of Applied Economics. NIST GCR 15-986-1, Gaithersburg, MD. pp.198-203.  
<http://dx.doi.org/10.6028/NIST.GCR.15-986-1>
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### Entry in Refereed Encyclopedia (Invited)

1. **Renschler, C.S.** (2003) Watershed. In: *Encyclopedia of Geomorphology* edited by Goudie, A.S. Intl. Association of Geomorphologists. Routledge/Taylor & Francis, London, UK

### Keynotes and Conference Panels (Invited)

10. **Renschler, C. S.** (2021). Panel: Engaged Scientists: Personal And Professional Commitments Among Climate Change Researchers. American Association of American Geographers (AAG), Denver, CO (to be rescheduled)
9. **Renschler, C. S.** (2019). Panel: Applying Open Principles in Geospatial Education to Enable the Right to Benefit from Scientific Progress. American Association of American Geographers (AAG), Washington, DC
8. **Renschler, C. S.** (2018). Keynote: Integrated Extreme Events Management: Communicating Processes and Options for Stakeholders. *spatial@ucsb.ioal2018 - Improving Information Accuracy for Extreme Events*. Center for Spatial Studies, University of California-Santa Barbara, Santa Barbara, CA

7. **Renschler, C. S.** (2016). Panel: Complementing Conventional Approaches with Nuclear Techniques towards Flood Risk Mitigation and Post-Flood Rehabilitation Efforts in Asia. Mid-Term Panel Review and Decision-Makers Awareness Meeting. Joint Food and Agriculture Organization (FAO) / International Atomic Energy Agency (IAEA) Division of Nuclear Techniques in Food and Agriculture, Vienna, Austria
6. **Renschler, C. S.** (2015). Panel: Taking Account of Culture in the Study of Risk and Disasters. American Association of American Geographers (AAG), Chicago, IL.
5. **Renschler, C. S.** (2014). Keynote Address: PEOPLES – A Community Resilience Framework. II Latin American Forum on Disaster Risk Reduction in Higher Education – “From Bogota to Sendai – Toward Risk Awareness”, United States Agency for International Development (USAID)/The United Nations Office for Disaster Risk Reduction (UNISDR), Bogota, Colombia
4. **Renschler, C. S.** (2011). Panel: 2010 Disasters in Review: Reflections on Lessons Learned for Disaster Loss Reduction. American Association of American Geographers (AAG), Seattle, WA
3. **Renschler, C. S.** (2010). Panel: TeraGrid Workshop on Cyber-GIS, National Science Foundation (NSF), Washington, DC
2. **Renschler, C. S.** (2009). Panel: Resilience Research Work Group. Policy Brief on Research Findings on Community Resilience and their Implications for Federal Policymaking. University of Pittsburgh Medical Center (UPMC) Center for Biosecurity, Washington, DC
1. **Renschler, C. S.** (2006). Panel: Researcher and Policy Expert Panel on Natural Resources Management, US and Canadian Chapters of the Soil and Water Conservation Society (SWCS), Milwaukee, WI

#### **Lectures or Seminars (Invited and accepted only)**

111. **Renschler, C.S.** (2020). The OUTSTEPS.org Research Network: A Community Platform for Stakeholders and Universities in the Lower Great Lakes. Great Lakes Action Agenda Collaborators Webinar, New York State Department of Environmental Conservation, Albany, NY.
110. **Renschler, C.S.** (2020). Carbon Cycle and Climate Change. Saturn Club, Buffalo, NY.
109. **Renschler, C.S.** (2019). Integrated Extreme Events Management: Climate Vulnerability, Sustainable Development and a Framework for Community Resilience. Erie County Emergency Manager Meeting. Buffalo, NY.
108. **Renschler, C.S.** (2019). ESRI Award Acceptance. ArcGIS Seminar. Buffalo Niagara Medical Campus Innovation Center. Buffalo, NY
107. **Renschler, C.S.** (2019). Managing Soil and Water in a Changing World: The Case for Integrated Extreme Events Management. Asian Studies Annual Symposium: Water in Asia. University at Buffalo, Buffalo, NY
106. **Renschler, C. S.** (2018). Integrated methods for modeling and sustainable management of regional natural resources. Center for Forest Restoration and Radioecology, Forestry and Forest Products Research Institute (FFPRI), Tsukuba, Japan
105. **Renschler, C. S.** (2018). Soil Functionality and the PEOPLES Resilience Framework: Keys to Assess and Communicate the 17 UN Sustainability Development Goals. International Institute for Resilient Society Saitama University, Tokyo, Japan
104. **Renschler, C. S.** (2018). Integrated Extreme Events Management: Holistic Geomorphology & Community Resilience. Faculty of Agriculture and Life Science, Hirosaki University, Aomori, Japan

103. **Renschler, C. S.** (2018). Integrated Extreme Events Management at Various Landscape Scales: Using Systems Analysis, Modeling and the PEOPLES Resilience Framework To Assess Sustainable Development from Plots and Communities to Regions. Dept. of Biological and Environmental Engineering, Graduate School of Agriculture and Life Sciences, University of Tokyo, Tokyo, Japan
102. **Renschler, C. S.** (2017). Holistic Approaches to Manage Processes of the Anthropocene: Geomorphology, GIScience and Community Resilience. Institute for Geoinformatics, University of Münster, Münster, Germany
101. **Renschler, C. S.** (2017). Integrated Extreme Events Management: Holistic Geomorphology and the PEOPLES Resilience Framework. 2017 International Lecture on Hazard and Risks. University of Vienna International Lecture on Hazard and Risks, Vienna, Austria
100. **Renschler, C. S.** (2017). Processing of spatial data and soil erosion modeling: Hillslopes and Watersheds/Catchments. Chinese Academy of Agricultural Sciences/Guangxi University. Nanning, China
99. **Renschler, C. S.** (2017). Watershed Modeling Tools for Stakeholders: Utilizing Fallout Radionuclides to Assess Sustainable Management, Climate Change, Disaster Recovery and Community Resilience. 1<sup>st</sup> Joint Meeting of the Japanese Geophysical Union and American Geophysical Union. Tokyo/University of Tokyo, Tokyo, Japan
98. **Renschler, C. S.** (2017). Integrating Measurements, Modeling and Management - Multi-dimensional Process-based Approaches for Holistic Geomorphology. Faculty for Biology, Chemistry und Geosciences, University of Bayreuth, Germany
97. **Renschler, C. S.** (2017). Spatial aspects of runoff dynamics in landscapes. Regional Training Course on the Interdisciplinary Application of Isotope Hydrology and Soil Related Isotopic Techniques for Flood Risk Mitigation and Post-Flood Rehabilitation in Asia. Joint Food and Agriculture Organization (FAO) / International Atomic Energy Agency (IAEA) Division of Nuclear Techniques in Food and Agriculture, Argonne National Laboratory, IL
96. **Renschler, C. S.** (2017). Integrating Measurement Patterns and Process-based Modeling for Improving the Soil and Water Management within Small Watersheds. Department of Water-Atmosphere-Environment, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria
95. **Renschler, C. S.** (2016). A Scenario-based Extreme Events Research and Decision-making Framework Linking Measurements, Modeling and Management. Department of Geography and Environmental Sciences. University of Colorado. Denver, CO
94. **Renschler, C. S.** (2016). Process-based Soil Loss Prediction in Landscapes Under Climate Change: community resilience and sustainable development in agricultural watersheds. Institute National de la Recherche Agronomic (INRA), Rabat, Morocco
93. **Renschler, C. S.** (2016). Process-based Soil Loss Prediction in Landscapes Under Climate Change: community resilience and sustainable development in agricultural watersheds. Centre national de l'énergie, des sciences et des techniques nucléaires (CNESTEN), Rabat, Morocco
92. **Renschler, C. S.** (2016). Four Keys for Integrating GIS and Environmental Models for Extreme Events Management. Department of Geoinformatics- Z\_GIS, University of Salzburg, Salzburg, Austria
91. **Renschler C. S., Klik, A., Melaku, N., & Omotayo, A.O.** (2016). Quantifying impacts of climate and land use changes on soil and water management, community resilience and sustainable development in agricultural watersheds. Vulnerability of Agricultural Production Networks and Global Food Value Chains due to Natural Disasters. Conference Organized by the Technical

- University of Vienna, and the Co-operative Research Programme on Biological Resource Management for Sustainable Agricultural Systems Trade and Agriculture Directorate. Organisation for Economic Co-operation and Development (OECD), Vienna, Austria
90. **Renschler, C. S.** (2016). Keys to Integrated Extreme Events Management. Institute of Surveying, Remote Sensing & Land Information (IVFL), Univ. Natural Resources and Life Sciences (BOKU), Vienna, Austria
  89. **Renschler, C. S.** (2016). Spatial and Temporal Dynamics of Watershed Hydrology and Soil Erosion – Scenario-based Research Framework Linking Measurements, Modeling and Management. US Department of Agriculture (USDA) Agricultural Research Service (ARS) National Soil Erosion Research Laboratory (NSERL). West Lafayette, IN
  88. **Renschler, C. S.** (2016). Realistische Szenarien als Basis für Multihazard Warnungen - Integriertes Management von Extremereignissen (in German). Understanding Risk Austria. Zentralanstalt für Meteorologie and Geodynamik & The World Bank. Vienna, Austria
  87. **Renschler, C. S.** (2016). Spatial and Temporal Dynamics of Watershed Hydrology and Soil Erosion - A Scenario-based Approach Linking Measurements, Modeling and Management. Institute of Hydraulics and Rural Water Management (IHLW), Univ. Natural Resources and Life Sciences (BOKU), Vienna, Austria
  86. **Renschler, C. S.** (2016). Integrated Extreme Events Management of Coastal Environments. National Oceanography Centre (NOC). University of Southampton, Southampton, UK
  85. **Renschler, C. S.** (2016). Approaches to Modify the Traditional Idea of Disaster Management Cycle towards Integrated Extreme Events Management. UN Office for Outer Space Affairs (UNOOSA). United Nations, Vienna, Austria
  84. **Renschler, C. S.** (2015). Past, Present and Future of GIS: The Need for Geospatial Project Management. Facultad de Geografía e Historia. Universidad Complutense de Madrid, Spain
  83. **Renschler, C. S.** (2015). Assessing Environmental and Management Changes with GeoWEPP – The Geospatial Interface of the Water Erosion Prediction Project. Institut für Bodenkunde und Standortslehre Universität Hohenheim. Stuttgart, Germany
  82. **Renschler, C. S.** (2015). The PEOPLES Resilience Framework - Integrated extreme events management at the neighborhood and landscape scales. Institut für Geökologie / Institut für Geosysteme und Bioindikation. Technical University of Braunschweig, Braunschweig, Germany
  81. **Renschler, C. S.** (2014). Building partnerships for an integrated assessment and management of extreme events. II Latin American Forum on Disaster Risk Reduction in Higher Education – “From Bogota to Sendai – Toward Risk Awareness”, United States Agency for International Development (USAID)/The United Nations Office for Disaster Risk Reduction (UNISDR), Bogota, Colombia
  80. **Renschler, C. S.** (2014). Smartphone Disaster Mode - Vulnerability, Resilience and Reporting. SmartAmerica Challenge. National Institute of Standards and Technology (NIST) & The White House, Washington, DC
  79. **Renschler, C. S.** (2014). The PEOPLES Resilience Framework: Integrating Quantitative Measures and Modeling for Disaster Risk Reduction and Sustainable Development. NIST-ASCE-ASME Workshop on Measurement Science for Sustainable Construction and Manufacturing. National Institute of Standards and Technology (NIST) - American Society of Civil Engineers (ASCE) – American Society of Mechanical Engineers. Reston, VA

78. **Renschler, C. S.** (2013). GIScience and Environmental Modeling - The Geo-spatial Interface for The Water Erosion Prediction Project (GeoWEPP). State Key Laboratory of Earth Surface Processes and Resource Ecology (ESPRE), Beijing Normal University. Beijing, China
77. **Renschler, C. S.** (2013). GIScience and Environmental Modeling - The Geo-spatial Interface for The Water Erosion Prediction Project (GeoWEPP). Institute of Geographical Science and Natural Resources Research, Chinese Academy of Sciences. Beijing, China
76. **Renschler, C. S.** (2013). GIScience and Extreme Events. College of Resource Environment and Tourism, Capital Normal University. Beijing, China
75. **Renschler, C. S.** (2013). Soil Erosion Modeling. College of Resource Environment and Tourism, Capital Normal University. Beijing, China
74. **Renschler, C. S.** (2013). Integrated Earth System Science. College of Resource Environment and Tourism, Capital Normal University. Beijing, China
73. **Renschler, C. S.** (2013). Governor Andrew Cuomo's Conference on Emergency Preparedness. The Governor's Office. Albany, NY
72. **Renschler, C. S.** (2013). An Integrated Analysis of Geocological and Geopedological Processes to Assess Ecosystem Resilience and Sustainability in Natural and Managed Watersheds. Department of Geography and Regional Research, University of Vienna. Vienna, Austria
71. **Renschler, C. S.** (2012). New York State Governor's NYS RESPOND Commission Meeting. Center for Academic and Spiritual Life, New York University. New York City, NY
70. **Renschler, C. S.** (2012). 10<sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response. International Research Institute of Disaster Science, Tohoku University. Sendai, Japan
69. **Renschler, C. S., & Minkowski\*, M.** (2011). Integrated Extreme Events Modeling: A Remote Sensing Approach to Assess the Impact of Prescribed and Actual Wildland Fires. 9<sup>th</sup> International Workshop on Remote Sensing for Post-Disaster Response. John A. Blume Earthquake Engineering Center - Stanford University. Palo Alto, CA
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11. **Renschler, C. S.** (2005). Representing the Scales of Landscape Properties and Processes for Natural Hazard and Natural Resources Management - Erosion Modeling with GeoWEPP. Dept. of Hydrology, Geoforschungszentrum (GFZ), Potsdam, Germany
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1. **Renschler, C. S.** (1999). The Role of geomorphologists in land management research and implementation. 30<sup>th</sup> International Binghamton Geomorphology Symposium “Geomorphology in the Public Eye”, Binghamton, NY

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25. Yasumiishi\*, M., **Renschler, C. S.**, & Nishimura, T. (2018). Exploring Renewed Methods to Identify the Spatiotemporal Distribution Patterns of Fallout Radiocesium in Watersheds. *2018 American Geophysical Union (AGU) Annual Fall Meeting*, Washington, DC, December 10-14, 2018.
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20. Yasumiishi\*, M., Nishimura, T., Osawa, K., & **Renschler, C. S.** (2017). Decoding Environmental Processes Using Radioactive Isotopes for the Post-Radioactive Contamination Recovery Assessment. *Geophysical Research Abstracts Vol. 19*, European Geophysical Union (EGU), Vienna, Austria, April 23–28, 2017.
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15. Schoorl, J. M., Jetten, V. G., Coulthard, T. J., Hancock, G. R., **Renschler, C. S.**, Irvine, B. J., Cerdan, O., Kirkby, M. J., & Veldkamp, T. (2014). Landscape - Soilscape Modelling: Proposed framework for a model comparison benchmarking exercise, who wants to join? *Geophysical Research Abstracts Vol. 16*, *European Geophysical Union (EGU)*, Vienna, Austria, April 27–May 2, 2014. 2014-12569-1.
14. Miller\*, M. E., Russel, A. M., Billmire, M., Endsley, K., Elliot, W. J., Robichaud, P. R., MacDonald, L. H. & **Renschler, C. S.** (2013). Rapid Response Tools and Datasets for Post-fire Erosion Modeling: An Online Database to Support Post-fire Erosion Modeling. *2013 American Geophysical Union (AGU) Annual Fall Meeting*, San Francisco, CA, December 9-13, 2013.
13. Valentine, G., Patra, A. K., Bajo\*, J. V., Bursik, M. I., Calder, E., Carn, S. A., Charbonnier, S. J., Connor, C., Connor, L., Courtland, L. M., Gallo, S. Jones, M., Palma Lizana, J. L., Moore-Russo, D., **Renschler, C. S.**, & Rose, W. I. (2013). Online collaboration and model sharing in volcanology via VHub.Org. *2013 American Geophysical Union (AGU) Annual Fall Meeting*, San Francisco, CA, December 9-13, 2013.
12. Vodacek, A., Boyd, D.L., van Aardt, J., **Renschler, C. S.**, McKeown, D. M., Collins\*, H., Duvvuri, S., & Pillai, A. H. (2009). Information Products Laboratory for Emergency Response – IPLER. *2009 American Geophysical Union (AGU) Annual Fall Meeting*, San Francisco, CA, December 14-18, 2009.
11. Valentine, G. A., Jones, M. D., Bursik, M. I., Calder, E. S., Gall, S. M., Connor, C. Cairn, S., Rose, W. I., Moore-Russo, D., **Renschler, C. S.**, Pitman, B., & Sheridan, M. F. (2009). VHub -

- Cyberinfrastructure for volcano eruption and hazards modeling and simulation. *2009 American Geophysical Union (AGU) Annual Fall Meeting*, San Francisco, CA, December 14-18, 2009.
10. **Renschler, C. S.**, Sheridan, M. F., & Patra, A. (2008). GeoProMT: A Collaborative Platform Supporting Natural Hazards Project Management From Assessment to Resilience. *American Geophysical Union (AGU) Joint Assembly: The Meeting of the Americas*. Fort Lauderdale, FL, May 27-30, 2008.
  9. Lee\*, T. & **Renschler, C. S.** (2007). Assessing Best Management Practices Effectiveness in a Small Watershed using a Process-based Based Modeling Approach. *Watershed Management to Meet Water Quality Standards and TMDLS (Total Maximum Daily Load)*, San Antonio, TX, March 10-14, 2007.
  8. Schneekloth, L., **Renschler, C. S.**, Shannon, M., Hernández, A., & Roussie\*, S. (2007). Exploring the Niagara Escarpment in New York State: An Inventory Approach to Facilitate Ecogovernance. *Leading Edge 2006: Understanding our Resources*. Niagara Escarpment Commission, Georgetown, Ontario, Canada, October 4-6, 2006.
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  5. Namikawa\*, L. M., & **Renschler, C. S.** (2005). Integrating TITAN2D Geophysical Mass Flow Model with GIS. *Eos Trans. American Geophysical Union* 86(52), Fall Meet. Suppl., Abstract V32A-08. San Francisco, CA, December 5-9, 2005.
  4. Namikawa\*, L. M., & **Renschler, C. S.** (2005). A Model Performance Measure for Validation of Geophysical Mass Flow Simulations. *8th International Conference on GeoComputation*. University of Michigan, Ann Arbor, MI, 31 July – 3 August, 2005.
  3. Lee\*, T., & **Renschler, C. S.** (2004). Investigating the Long Term Impact of BMPs - What has continuous, spatially-distributed watershed modeling to offer? *American Society of Agric. & Biol. Engineers Annual Meeting 2004*, Ottawa, Canada, August 1-4, 2004.
  2. Lee\*, T., & **Renschler, C. S.** (2003). Assessing the Long-term Effectiveness of Multiple BMP Settings in Agricultural Watersheds using a GeoWEPP-SWAT Linkage. *Conference on Watershed Management to Meet Water Quality Standards and Emerging TMDL*. Atlanta, GA, 5 March, 2005.
  1. Meyer, C. R., **Renschler, C.** & Vining R. C. (2002). Implementing quality control techniques for random number generators to improve stochastic weather generators: the CLIGEN experience. *13<sup>th</sup> Conference on Applied Climatology and the 10th Conference on Aviation, Range, and Aerospace Meteorology*, Portland, OR, May 12-16, 2002.

### Presenter at Professional Conferences

Total	45
Association of American Geographers (AAG)	12
Soil Science Society of America (SSSA)	6
American Geophysical Union (AGU)	3
American Society of Agricultural and Biological Engineers (ASABE/ASAE)	3
International Environmental Modeling Software Society (iEMSs)	2

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International Union of Geodesy and Geophysics (IUGG) General Assembly	2
GeoTech Event/ESRI User Conference	2
International Association of Geomorphologists (IAG)	1
International Binghamton Geomorphology Symposium	1
International Association of Hydrological Sciences (IAHS)	1
International Conf. on Integrating GIS and Environmental Modeling (GIS/EM)	1
International Soil Conservation Organization (ISCO)	1
World Congress of Soil Science (IUSS)	1
Australasian Hazard Management	1
British Hydrological Society (BHS)	1
Japanese Geophysical Union (JpGU)	1
Soil Erosion & Dryland Farming (SEDF)	1
Federal Interagency Sedimentation/Hydrologic Modeling Conference	1
GeoTools National Oceanic and Atmospheric Administration (NOAA)	1
Global Change & Terrestrial Ecosystem-Intl. Geosphere-Biosphere Program	1
GeoComputation	1
GIScience	1
Quake Summit	1
Cities on Volcanoes	1

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[https://www2.erie.gov/environment/sites/www2.erie.gov.environment/files/uploads/CVA\\_Clim ate\\_Hazards\\_Summary\\_Draft.pdf](https://www2.erie.gov/environment/sites/www2.erie.gov.environment/files/uploads/CVA_Clim ate_Hazards_Summary_Draft.pdf)
5. Bian, L., Aldstadt, J., Bittner, T., Jacquez, G., Larsen, C., Mackay, S., Metcalf, S., Patra, A., **Renschler, C.**, Wang, L., & E. Yoo. (2016) Context-Based Smart Modeling. Response to UCGIS Research Challenges Initiative. University Consortium for Geographic Information Science (UCGIS). Scottsdale, AZ. Available at: <http://ucgis.org/sites/default/files/document-sharing-form-files/209/bian.pdf>
4. Adam\*, M., Challen, G., **Renschler, C.**, Shantharam, S., Vashit, N., & Yasumiishi, M. (2014). *Smartphone Disaster Mode - Saving lives with cyber-physical systems. Smart America Challenge*. National Institute for Standards and Technology/The White House. Available at: <https://blue.cse.buffalo.edu/projects/disastermode/>
3. Boyer, B., Carpenter, B., **Renschler, C.** & Vallone Kellam, R. (2008). *Cattaraugus Creek Watershed Resource Guide and Proposed Watershed Planning Strategy*. Environmental Protection Agency (EPA) Final Project Report. Available at: [http://www.lake-erie.fff.org/files/Cattaraugus\\_Creek\\_Watershed.pdf](http://www.lake-erie.fff.org/files/Cattaraugus_Creek_Watershed.pdf)
2. Tinkler, K., Bursik, M., & **Renschler, C. S.** (2005). *Fieldtrip Guide: Niagara River, Falls, and Gauge*. 36<sup>th</sup> Binghamton Geomorphology Symposium 2005 - Geomorphology and Ecosystems. University at Buffalo, Buffalo, NY. 24 p.

1. **Renschler, C.S.** (2002). *Invited Essay: Diplom in Geoökologie, Promotion in Geographie, und dann... Professor in den USA?! Forum Geökologie 13 (1)*. Association for Geoecology, Bayreuth, Germany. 2 p. (In German).

### Other Relevant Internal Non-Refereed Governmental Reports

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## 16. DIGITAL SCHOLARSHIP

*Note that GeoWEPP manuals and software downloads are available for free at <http://geowepp.org>. Impact: The GeoWEPP webpage is referred to in **17 citations in Google Scholar (GS)** and GeoWEPP had more than **3,000 downloads since 2015**. A *Web of Science (WoS) Core Collection* search for the term **GeoWEPP** appearing in a publication title lists **15 articles (6 since 2015) with 197 citations and an h-index of 5**. A search for the term **GeoWEPP** appearing in any field lists **41 articles (21 since 2015) with 535 citations (335 since 2015) and an h-index of 12**.*

### Computer Software Development for Research, Instruction and Implementation

11. **Renschler, C. S., Yasumiishi\*, M. & Xiong\*, H. (2017).** GeoWEPP: Geo-spatial interface for the Water Erosion Prediction Project for ArcGIS 10.4 [computer software]. Available for free at <http://geowepp.org> (**more than 420 downloads since 2017**)
10. **Renschler, C. S., Xiong\*, H., Goergen\*, J., Minkowski\*, M., & Yasumiishi\*, M. (2014).** GeoWEPP: Geo-spatial interface for the Water Erosion Prediction Project for ArcGIS 10.1, 10.2, 10.3 (Version 1.0) [computer software]. Available for free at <http://geowepp.org> (**more than 2,200 downloads since 2014**)
9. **Renschler, C. S., & Rios\*, F. (2014).** GeoProMT: Geo-spatial Project Management (Version 1.0) [internet portal]. Available for invited access at <http://geopromt.org>
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3. **Renschler, C. S., & Sorokine, A. (2004).** GeoDRAT: Geo-spatial Dynamic Response Assessment Tool (Beta). [internet portal].
2. **Renschler, C. S., & Malinowski\*, M. (2004)** Geo-spatial Interface Prototype for Cropware - A Cornell University Nutrient Management Software (Beta) [computer software].
1. **Renschler, C. S. (2002).** GeoWEPP: Geo-spatial interface for the Water Erosion Prediction Project for ArcView 3.x (Version 1.0) [computer software]. Available for free at <http://geowepp.org> (**more than 70 downloads since 2014**)

### Domains, Websites and Software Maintained for Research, Teaching and Outreach

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|------------|--|
| Since 2019 | OUTSTEPS.ORG - Organizing Urban Transects for a Sustainable Transformation of Economic Partnerships (OUTSTEPS) |
| Since 2006 | GEPROMT.ORG - Geospatial Project Management Tool (GeoProMT)  |
| Since 2002 | GEOWEPP.ORG - Geo-spatial Interface for WEPP (GeoWEPP)   |
| Since 2001 | LESAM.ORG - Landscape-based Environmental System Analysis & Modeling Laboratory                                |

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## 17. PROFESSIONAL AND PUBLIC NEWS COVERAGE

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### Professional Newsletter Coverage

- 2018 Student-Stakeholder Partnership Aims to Improve Cattaraugus Creek Watershed. *U.S. Army Corps of Engineers - News Stories* (online). By Shaina Souder, Buffalo District (11/16/2018).
- 2018 Damage Assessment by Laser Could Focus Post-earthquake Response, *EOS*, 99, American Geophysical Union. <https://doi.org/10.1029/2018EO092209>. By L.G. Shields (02/06/2018).
- 2010 Helping Haiti – Disaster Response Lab Manages Aerial Data for Earthquake Relief. *GeoWorld*. (October 2010).
- 2010 Damage Assessment Activities Following Haiti Quake. *MCEER Bulletin*, Vol. 24 (1).
- 2009 New Project Seeks to Extend Resilience Framework. *MCEER Bulletin*, Vol. 23 (1).
- 2007 MCEER Movers & Shakers: Renschler Wins Young Scholar Award. *MCEER Bulletin*, Vol. 21 (3).
- 2007 Remote Sensing Institute Receives NOAA CSC Award to Develop Community Resilience Index. *MCEER Bulletin*, Vol. 21 (3).
- 2007 Remote Sensing Institute to Focus on Real World Applications. *MCEER Bulletin*, Vol. 21 (1).
- 2006 Report on the Winter Meeting 2006 in Washington, DC. *Challenges - Newsletter Univ. Consortium Geographic Information Science* (Winter 2006).
- 2004 New Software Helps Foresters Plan Wildfire Prevention Efforts. *The Society of American Foresters' Forestry Source*. By Joe Smith (August 2004).

### Public Media Coverage

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- 2019 Bahamas Need to Reconsider Building Practices Amid Dorian Clean-Up [Online]. The Globe Post. By Imogen Francis (10/09/19).
- 2019 Tornado outbreaks reminder to make smartphones disaster-ready [Online]. *USA Today*. By Madeline Purdue (05/30/19).
- 2018 Soaking rain, flash floods in California could pose a risk of mudslides near wildfire-scorched areas [Online]. *AccuWeather.com*. By Ashley Williams (11/30/18).
- 2018 Live News Interview to discuss the response and recovery after Hurricane Michael following the top news story [Live TV]. *CTV News Canada* (11/19/18).
- 2017 Hurricane Irma illustrates how accurate forecasts, improved communication can help save lives during disasters [Online]. *Fox News Weather Center* (09/15/2017).
- 2017 Hurricane Irma illustrates how accurate forecasts, improved communication can help save lives during disasters [Online]. By Kevin Byrne, *AccuWeather.com* (09/16/2017).
- 2017 Poisoned region in Japan becomes woman's field of study at UB. By T.J. Pignataro, *Buffalo News (Front Page)* (03/11/2017).



- 2014 Making smartphones work for us during disasters [Online]. *GNC – Technology, Tools and Tactics for Public Sector IT*. (06/10/2014).
- 2013 People: January 2013 - New York's Governor Appoints Renschler to New Commission. *ASCE News* (01/06/2013).
- 2012 Three area officials help with NYS emergency prep [Online]. *Buffalo Business First*. (12/04/2012).
- 2011 Tropical Storm Irene, Scientists Assess Damage in Flooded New York Communities [Live radio interview]. *The Capitol Press Room, Public Broadcasting Council of Central New York, Inc. (WCNY)*, Syracuse, NY (09/27/11).
- 2011 Assessing the Damage in Flooded New York Communities [Live radio interview]. *North East Public Radio (WAMC)* (09/22/11).
- 2010 Mapping Haiti one Satellite Image at a Time [Live radio interview]. *Worldview, Chicago Public Radio (WBEZ)* (03/04/2010).
- 2010 U.B. Students Help "Map Out" Road to Future for Haiti [Television broadcast]. *Local News, Channel 7 (WKBW)*, Buffalo, NY (02/10, 2010).
- 2009 Naturkatastrophen: Bedrohung Vesuv (Staffel 2, Folge 13) [Television series episode]. *The History Channel and History HD* (premiered 10/30/2009; approximately 50 reruns in the following two years).
- 2007 Mega Disasters: The Next Pompeii? [Television series episode]. *The History Channel* (premiered 11/27/2007; reruns broadcasted periodically).
- 2006 Meeting set to launch watershed project [Newspaper]. *Buffalo News* (10/02/2006).
- 2004 UB-developed software tool helps land managers prevent and mitigate environmental impacts, most recently in the case of wildfires [live radio interview]. *WBFO Public Radio* (08/30/2004).
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