

Timothy L. Nyerges
Abbreviated Curriculum Vitae – August 15, 2014

PERSONAL

Telephone: (425) 868-7162 (home); (206) 543-5296 (office); Telefax: (206) 543-3313
Email: nyerges@u.washington.edu; WWW Page: <http://faculty.washington.edu/nyerges>

EDUCATION

1975 BA Geography, 1976 MA Geography, 1980 Ph.D. Geography, Ohio State University.

POSITIONS HELD

- 3/10 – present Director, Master of GIS Program with concentration in Sustainability Management, Dept of Geography, University of Washington
- 9/85 - present Asst Professor, Assoc Professor (1991), Professor (1998), Dept of Geography, Affiliate Prof., Interdisciplinary PhD in Urban Design and Planning, U of Washington.
- 8/85 - present. Principal, GeoInfo Consulting, 7817 235th Place NE, Redmond WA, 98053.
- 3/83 - 8/85. Digital Mapping and GIS Consultant for various national and international firms, 14521 NE 6th Place, #3, Bellevue WA 98007.
- 7/80 - 1/83. Principal Consultant and Software Project Manager, Synercom Technology, Inc., Sugar Land TX 77478.

SELECTED REFEREED PUBLICATIONS

- T. Nyerges, M. Roderick, S. Prager, D. Bennett, and N. Lam 2014. Foundations of sustainability information representation theory: spatial-temporal dynamics of sustainable systems, **International Journal for Geographical Information Science**, , 28(5):1165-1185. special issue of Space-Time Research in Geographic Information Science, available as open access at <http://www.tandfonline.com/doi/abs/10.1080/13658816.2013.853304#.Un0G5CcVGS0>.
- J. Xu, T. Nyerges, and G. Nie 2014. Modeling and representation for earthquake emergency response knowledge: perspective for working with geo-ontology, **International Journal for Geographical Information Science**, 28(1): 185-205.
- R. Aguirre and T. Nyerges 2014. An Agent-Based Model of Participatory Decision Making for Sustainability Management, **Journal of Artificial Societies and Social Simulation**, January, 2014.
- T. Nyerges, M. Roderick, and M. Avraam 2013. CyberGIS Designs of Structured Participation for Collaborative Problem Solving, **International Journal for Geographical Information Science**, special issue on CyberGIS, 27(11):2146-2159.
- S. Wang, L. Anselin, B. Bhaduri, M. Goodchild, Y. Liu, T. Nyerges, N. Wilkins-Diehr 2013. CyberGIS Software: A Synthetic Review and Integration Roadmap, **International Journal for Geographical Information Science**, special issue on CyberGIS, 27(11):2122-2145.
- S. Wang, N. R. Wilkins-Diehr, T. Nyerges, 2012. Community Activity: Workshop Report, CyberGIS – Toward synergistic advancement of cyberinfrastructure and GIScience: A workshop summary, **Journal of Spatial Information Science**, <http://josis.org/index.php/josis/article/viewFile/83/67>.
- R. Aguirre and T. Nyerges, 2011. Geovisual Evaluation of Public Participation in Decision Making: The 4D Grapevine Technique, **Journal of Visual Languages**, 22(4):305-321.

- T. Nyerges and R. Aguirre, 2011. Public Participation in Analytic-Deliberative Decision Making: Evaluating a Large-Group Online Field Experiment, **Annals of Association of American Geographers**, 101(3):561-586.
- T. Nyerges, K. Belpaeme, T. Haddad, and D. Hart, Creating a Usable Atlas, in Wright, D.J., Dwyer, E., and Cummins, V. (eds.), 2010. **Coastal Informatics: Web Atlas Design and Implementation**, IGI Publishers, pp. 256-266.
- T. Nyerges 2009. GIS and Society. In Kitchin R, Thrift N (eds) **International Encyclopedia of Human Geography**, Volume 4, pp. 506–512. Oxford: Elsevier.
- M. Lowry, T. Nyerges, G. S. Rutherford, 2008. An internet portal for large group participation in transportation programming decisions, **Transportation Research Record**, publication 2077 National Academy of Sciences, Washington, D. C., pp. 156-165.
- R. K. Young, T. Zhong, M. Lowry, G. S. Rutherford, and T. L. Nyerges, 2007. An Analytic-Deliberative Online Framework for Transportation Programming, **The International Journal of Technology, Knowledge and Society**, Vol. 3, Issue 2, pg. 89-98
- K. Elgethun, M. G. Yost, C. T. E. Fitzpatrick, T. Nyerges and R. A. Fenske 2007 Comparison of GPS Tracking to the NHEXAS Diary Timeline for Time-Location Measurement of Children, **Journal of Exposure Analysis and Environmental Epidemiology**, 17, 196-206, published online 14 June 2006
- T. Nyerges, P. Jankowski, D. Tuthill, K. Ramsey. 2006. Collaborative Water Resource Decision Making: Results of a Field Experiment, **Annals of the Association of American Geographers**, 96(4):699–725
- P. Jankowski, T. Nyerges, S. Robischon, D. Tuthill, K. Ramsey. 2006 Design Considerations for Collaborative, Spatio-Temporal Decision Support Systems, **Transactions in GIS**, 10(3): 335–354
- T. Nyerges, K. Ramsey, and M. Wilson, 2006. Design Considerations for an Internet Portal to Support Public Participation in Transportation Improvement Decision Making, in Shivanand Balram and Suzana Dragicevic (eds.) **Collaborative Geographic Information Systems**, Idea Publishing, Hershey PA, pp. 208-230.
- D. Mercer, T. Leschine, C. Drew, W. Griffith, & T. Nyerges 2005. Managing environmental risks. **Journal of Knowledge Management**, 9(2):129-147.
- C. Drew, T. Nyerges, and T. Leschine, 2004. Promoting Transparency of Long-term Environmental Decisions: the Hanford Decision Mapping Project, **Risk Analysis**, 24(6):1641-1664.
- C. Drew and T. Nyerges, 2004. Transparency of Environmental Decision Making: A Case Study of Soil Cleanup Inside the Hanford 100 Area, **Journal of Risk Research**, 7(1):33-71.
- P. Jankowski and T. Nyerges. 2003. Towards a Framework for Research on Geographic Information-Supported Participatory Decision Making, **Urban and Regional Information Systems Journal**, vol. 15, pp. 9-17 (electronic version <http://www.urisa.org/Journal/APANo1/JrnlContents15-APA1.htm>).
- C. Drew, T. Nyerges, K. McCarthy and J. Moore, 2002. Using Decision Paths to Explore Three Environmental Cleanup Decisions: A Cross-Case Analysis, **International Journal of Environment and Pollution**, 17(3):171-201.
- T. Nyerges, P. Jankowski, and C. Drew, 2002. Data Gathering Strategies for Social-Behaviour Research about Participatory Geographic Information System Use, **International Journal of Geographical Information Science**, 16(1):1-22
- P. Jankowski and T. Nyerges. (equal contribution) 2001 GIS-Supported Collaborative Decision Making: Results of an Experiment, **Annals of the AAG**, 91(1):48-70.

SELECTED BOOKS

- T. Nyerges, H. Couclelis, R. McMaster (eds.), 2011. **Handbook of GIS & Society**, SAGE Publications, London. 27 chapters.
- T. Nyerges and Piotr Jankowski, 2010. **Regional and Urban GIS: A Decision Support Approach**, Guilford Publications, New York, textbook 14 chapters.
- E. Anderson, S. S-N Lam, K. A. Newman, T. Nyerges, N. Obermeyer, M. Orfield, J. Pickles, D. Sui, P. Waddell, 2003. **GIS for Housing and Urban Development**, National Research Council, Committee on Review of Geographic Information Systems Research and Application at HUD: Current Programs and Future Prospects, Washington D.C., National Academy Press.
- P. Jankowski and T. Nyerges, (equal contribution) 2001 **Geographic Information Systems for Group Decision Making**, Taylor & Francis: London. Eight chapters of material based on results of research 1995-2000.

SELECTED BOOK CHAPTERS

- M. Roderick, T. Nyerges and M. Avraam 2014. CyberGIS Implementation Considerations for Structured Participation Methods in Collaborative Problem Solving, in S. Wang and M. Goodchild (eds.) **CyberGIS: Fostering a New Wave of Geospatial Discovery and Innovation**, Springer, New York. accepted.
- T. Nyerges, R. McMaster, and H. Couclelis, 2011. Geographic Information Systems and Society: A Twenty Year Research Perspective, T. Nyerges, H. Couclelis, R. McMaster (eds.), **Handbook of GIS and Society**, Sage:London, pp. 1-21.
- M. Armstrong, T. Nyerges, S. Wang, D. Wright, 2011. Connecting Geospatial Information to Society through Cyberinfrastructure, in T. Nyerges, H. Couclelis, R. McMaster, (eds.) **Handbook of GIS and Society**, Sage: London, pp. 109- 122.
- H. Couclelis, T. Nyerges, and R. McMaster. 2011. GIS and Society Research: Reflections and Emerging Themes, T. Nyerges, H. Couclelis, R. McMaster (eds.), **Handbook of GIS and Society**, pp. 531-541.
- T. Nyerges and M. Patrick, 2007. Rethinking Public Participation as Instant Access to Virtual Meetings, in H. Miller (ed.) **Societies and Cities in the Age of Instant Access**, Dordrecht, Springer, 331-342.
- P. Jankowski and T. Nyerges, 2007 GIS and Participatory Decision Making, in John Wilson and Stuart Fotheringham (ed.) **Handbook of Geographic Information Science**, Blackwell, chapter 27.
- T. Nyerges and P. Jankowski, 2006. Participatory Geographic Information Science, in Ari-Veikko Anttiroiko and Matti Malkia (eds.) **Encyclopedia of Digital Government**, Idea Group Inc, v. III, 1314-1318
- T. Nyerges and P. Jankowski. 2004. Toward a Participatory Geographic Information Science, in B. Wharf, K. Hansen, and D. Jannelle (eds.), **WorldMinds: 100 Geographic Problems**, Kluwer, Amsterdam, pp. 535-539.
- T. Nyerges, 2004. Geographic Information Systems in Transportation Planning in Susan Hanson and Genevieve Giuliano (eds.), **The Geography of Urban Transportation**, 3rd edition, Guilford Press.
- P. Jankowski and T. Nyerges, 2002. Introduction to Spatial Decision Support Systems, **Encyclopedia of Life Sciences**, IUCN Press.
- P. Jankowski and T. Nyerges, 2001. GeoChoicePerspectives: A Collaborative Spatial Decision Support System, **The Analytic Hierarchy Process in Natural Resource and Environmental Decision Making** (eds.) Daniel L. Schmoldt, Jyrki Kangas, Guillermo Mendoza, and Mauno Pesonen, Kluwer Academic Publishers: Dordrecht, Netherlands, 253-268.

SELECTED GRANT/CONTRACT AWARDS

October 1, 2010 – September 30, 2015. CyberGIS Software Integration for Sustained Geospatial Innovation, Shaowen Wang (PI), Co-PI's Luc Anselin, Budhendra L. Bhaduri, Xuan Shi, Timothy L. Nyerges, Nancy R. Wilkins-Diehr, Office of Cyberinfrastructure, Software Institutes, Cross-Directorate Active Programs, Geography and Spatial Sciences, Method, Measure & Statistics, OCI-1047916, \$4.4M total, \$687,410 UW for 5 years.

October 1, 2009 – February 29, 2012 Participatory Interaction Modeling of Online Geographic Decision Making, Timothy Nyerges (PI), Robert Aguirre, Robert W. Aguirre, PLLC (CoPI), National Science Foundation, Geography and Spatial Sciences Program, BCS-0921688, \$215,001.

August 1, 2007 – July 31, 2010. Geospatial Decision Support Tools for Coastal Resource Management: Vulnerability Maps Characterizing Regional Climate Variability and Change Impacts, Timothy Nyerges (PI), Dawn Wright, Oregon State University (Co-PI), Robert Aguirre, Robert W. Aguirre, PLLC (Co-PI), National Oceanic and Atmospheric Administration, Climate Program, Project No. NA07OAR4310410, \$287,113. seeking no-cost extension

September 1, 2007 – August 31, 2008. T. Nyerges (PI) \$50,000 supplemental award, US/China Digital Government Collaboration: Comparing Water Resources Decision Support Situations, Techniques, and Tools, for An Internet Platform To Support Public Participation In Transportation Decision Making, National Science Foundation, Division Of Experimental & Integrative Activity, Information Technology Research Program, Project Number EIA 0325916 managed by the Digital Government Program.

September 1, 2003 – August 31, 2008, T. Nyerges, (PI), Co-PI's T. Brooks, C. Drew, G. Scott Rutherford, U Of Washington, P. Jankowski, San Diego State University, R. Young, University Of Wyoming. An Internet Platform To Support Public Participation In Transportation Decision Making, National Science Foundation, Division Of Experimental & Integrative Activity, Information Technology Research Program, Project Number EIA 0325916 managed by the Digital Government Program, \$2,682,828.

SELECTED NATIONAL PROFESSIONAL ORGANIZATIONS AND COMMITTEES

11/13 – present, Treasurer, University Consortium of Geographic Information Science

2/11 – 5/14, Immediate Past President, University Consortium of Geographic Information Science

2/11 – 1/13, member, National Geospatial Advisory Committee, appointment by the Secretary of the US Department of Interior

2/09 – 2/11, President, University Consortium of Geographic Information Science

2/08 – 2/09, President-Elect, University Consortium of Geographic Information Science

3/05 – 2/08, Research Chair, University Consortium of Geographic Information Science

4/05 – 3/06, Past Chair, GIS Specialty Group, Association of American Geographers

3/04 – 4/05, Chair, GIS Specialty Group, Association of American Geographers

4/03 – 3/04, Vice Chair, GIS Specialty Group, Association of American Geographers

2/02 – 2/03 appointed as member, Committee to Review Geographic Information Systems Research and Applications at HUD: Current Programs and Future Prospects, appointment through National Research Council, Board on Earth Sciences and Resources, Committee on Geography