# C U R R I C U L U M  V I T A E

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**EDUCATION BEYOND HIGH SCHOOL:**

Ph.D., 1989, Department of Geography, University of Washington
M.S., 1979, Department of Econometrics and Operations Research, Poznan University of Economics

**POSITIONS HELD**

2020 – present, Professor and Director of SDSU-UCSB Joint Doctoral Program
2013 - 2020, Professor and Chair, Department of Geography, San Diego State Univ. (SDSU)
2003 - present, Professor and Co-director, Center for Earth Systems Analysis Research, SDSU
2003 - present, Coordinator of GIS Certificate Program, SDSU
2001 - 2002, Professor, Institute for Geoinformatics, University of Muenster, Germany
2000 - 2001 Professor and Interim Chair, Department of Geography, University of Idaho
1995 - 2000, Associate Professor, Department of Geography, University of Idaho
1989 - 1995, Assistant Professor, Department of Geography, University of Idaho
1985 - 89, Consultant, Center for Social Studies, Computation and Research, University of Washington
1979 - 84, Teaching Associate, Institute for Economics and Management of Tourism, Poznan, Poland

**VISITING APPOINTMENTS**

2019 Fulbright Scholar, Adam Mickiewicz University, Poznan, Poland
2015 Visiting Professor, Carinthia University of Applied Sciences, Austria
2013 Visiting Professor, Federal University of Minas Gerais, Brazil
2012 Visiting Professor, University of Cagliari, Italy
2011 Visiting Professor, University of Otago, New Zealand
2009 Visiting Professor, University College Dublin, Ireland
2008 Visiting Professor, Adam Mickiewicz University, Poznan, Poland
2000 Visiting Scholar, Fraunhofer Institute, Sankt Augustin, Germany
1999 Visiting Scholar, Fraunhofer Institute, Sankt Augustin, Germany

**PUBLICATIONS: (H-index = 41, based on Google Scholar)**

**Refereed Publications:**

1. Przewoźna, P., **Jankowski, P**., Stach. A. 2020. Solid waste management in urban space: the volume-weight relationship[J]. AIMS Environmental Science, 7(6): 575-588. doi: 10.3934/environsci.2020036

2. **Jankowski, P**., Najwer, A., Zwolinski, Z., Niesterowicz, J. 2020. Geodiversity assessment with crowdsourced data and spatial multicriteria analysis. *ISPRS Int. J. Geo-Inf.*, *9*(12), 716; https://doi.org/10.3390/ijgi9120716

3. Stoler, J., Ter-Ghazaryan, D., Sheskin, I., Pearson, A.L., Schnakenberg, G., Cagalanan, D., Swanson, K., **Jankowski, P**. 2020. What's in a Name? Undergraduate Student Perceptions of Geography, Environment, and Sustainability Key Words and Program Names, Annals of the American Association of Geographers, DOI: 10.1080/24694452.2020.1766412

4. Malczewski, J., & **Jankowski, P**. 2020. Emerging trends and research frontiers in spatial multicriteria analysis. *International Journal of Geographical Information Science*, 34(7): 1257-1282 https://doi.org/10.1080/13658816.2020.1712403, DOI: 10.1080/13658816.2020.1712403, IF: 3.545

5. Ligmann-Zielinska, A., Siebers P-O., Magliocca, N., Parker, D., Grimm, V., Du, E, J., Cenek, M., Radchuk, V., Arbab, N., Li, S., Berger, U., Paudel, R., Robinson, D.T., **Jankowski, P.**, An, L., & Ye,

X. 2020. "One size does not fit all": a roadmap of purpose driven mixed-method pathways for sensitivity analysis of agent-based models. *Journal of Artificial Societies and Social Simulation*. 23(1), 6. http://jasss.soc.surrey.ac.uk/23/1/6.html DOI: 10.18564/jasss.4201, IF: 2.194

6. Seidl, D., **Jankowski, P.**, Clarke, K.C., & Nara A. 2019. Please enter your home location: Geoprivacy attitudes and personal location Masking strategies of internet users. *Annals of the American Association of Geographers*. https://doi.org/10.1080/24694452.2019.1654843

7. Cocco, C., **Jankowski, P.**, & Campagna, M. 2019. An analytic approach to understanding process dynamics in gedesign studies. *Sustainability*. 11(4999). doi:10.3390/su11184999

8. Erlacher, C., Desch, A., Anders, K.-H., **Jankowski, P.**, & Paulus, G. 2019. Parallel and distributed computing for large raster-based spatial multicriteria decision analysis problems: a computational performance comparison. *GI_Forum 2019.* 7(1): 69-8. doi: 10.1553/giscience2019_01_s69

9. Yang, J-U., Tsou, M-H., Janowicz, K., Clarke, K.C., & **Jankowski, P.** 2019. Reshaping the urban hierarchy: patterns of information diffusion on social media. *Geo-Spatial Information Science*, https://doi.org/10.1080/10095020.2019.1641970

10. He, J., Christakos, G., & **Jankowski, P.** 2019. Comparative performance of the LUR, ANN, and BME techniques in the multiscale spatiotemporal mapping of PM2.5 concentrations in north China. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 12(6): 1734-1747, doi: 10.1109/JSTARS.2019.2913380, IF: 3.392

11. He, J., Christakos, G., Wu, J., **Jankowski, P.**, Langousis, A., Wang, Y., Yin, W., & Zhang, W. 2019. Probabilistic logic analysis of the highly heterogeneous spatiotemporal HFRS incidence distribution in Heilongjiang Province (China) during 2005-2013. *PLoS Neglected Tropical Diseases.* https://doi.org/10.1371/journal.pntd.0007091, IF: 4.367

12. Seidl, D.E., **Jankowski, P.**, & Nara, A. 2018. An empirical test of household identification risk in geomasked maps. *Cartography and Geographic Information Science*. https://doi.org/10.1080/15230406.2018.1544932, IF: 2.224

13. Keenan, B.P., & **Jankowski, P.** 2019. Spatial decision support systems: three decades on. *Decision Support Systems*. Vol. 116: 64-76. https://doi.org/10.1016/j.dss.2018.10.010, IF: 4.574

14. Haklay, M., **Jankowski, P.**, & Zwolinski, Z. 2018. Selected modern methods and tools for public participation in urban planning – a review. *Quaestiones Geographicae*. 37(3): 127-149. https://content.sciendo.com/view/journals/quageo/37/3/article-p127.xml

15. Czepkiewicz, M., **Jankowski, P.**, & Zwolinski, Z. 2018. Geo-questionnaire: a spatially-explicit method for eliciting public preferences, behavioral patterns, and local knowledge – an overview. *Quaestiones Geographicae*. 37(3): 177-190. https://content.sciendo.com/view/journals/quageo/37/3/article-p177.xml

16. Bakowska, E., Brodka, C., & **Jankowski, P.** 2018. Legal and organizational framework for the use of Geoweb methods for public participation in spatial planning in Poland: experiences, opinions, and challenges. *Quaestiones Geographicae*. 37(3): 164-175. https://content.sciendo.com/view/journals/quageo/37/3/article-p163.xml

17. Şalap, S-A., **Jankowski, P.**, & Nara., A. 2018. Analysis of the Influence of Parameter and Scale Uncertainties on a Local Multi-Criteria Land Use Evaluation Model. *Stochastic Environmental Research and Risk Assessment*, 32(9): 2699-2719 DOI: 10.1007/s00477-018-1535-z, IF: 2.668

18. Şalap, S-A., **Jankowski, P.**, Clarke, K., Kyriakidis, P., & Nara., A. 2018. A meta-modeling approach for spatio-temporal uncertainty and sensitivity analysis: an application for a cellular automata-based Urban

growth and land-use change model. *International Journal of Geographical Information Science*, 32(4):637-662. https://doi.org/10.1080/13658816.2017.1406944, IF: 2.065

19. Seidl, D., **Jankowski, P.**, & Clarke, K. 2018. Privacy and false identification risks in geomasking techniques. *Geographical Analysis*, 50(3): 280-297. https://doi.org/10.1111/gean.12144, IF: 1.905

20. Erlacher, C., **Jankowski, P.**, Blaschke, T., Paulus, G., & Anders, K-H. 2017. A GPU-based parallelization approach to conduct spatially-explicit uncertainty and sensitivity analysis in the application domain of landscape assessment. In: A., Car, J., Strobl, T., Jekel, G., Griesebner (Eds.). *GI_Forum Journal 2017 (1)*: 44-58. DOI: 10.1553/giscience2017_01_s44

21. **Jankowski, P.**, Czepkiewicz, M., Mlodkowski, M., Zwolinski, Z., & Wojcicki. 2017. Evaluating the scalability of public participation in urban land use planning: A comparison of Geoweb methods with face-to-face meetings. *Environment and Planning B*, 46(3): 511-533 DOI: 10.1177/2399808317719709, IF: 1.537

22. Czepkiewicz, M., **Jankowski, P.**, & Mlodkowski, M. 2017. Geo-questionnaires in urban planning: recruitment methods, participant engagement, and data quality. *Cartography and Geographic Information Science,* 44(6): 551-567, http://dx.doi.org/10.1080/15230406.2016.1230520 IF: 2.224

23. Czepkiewicz, M., Brodka, C., **Jankowski, P.**, Kaczmarek, T., Zwolinski, Z., Mikula, L., Bakowska, E., Mlodkowski, M., & Wojcicki, M. 2016. Public participation GIS for sustainable mobility planning: methods, applications, and challenges. *Rozwoj Regionalny i Polityka Regionalna*, 35: 9-35.

24. Bakowska, E., Kaczmarek, T., **Jankowski, P.**, Zwolinski, Z., Mikula, L., Czepkiewicz, M., & Brodka, C. 2016. Geo-questionnaire in urban planning – preliminary results of experimental application in Poland. *Rozwoj Regionalny i Polityka Regionalna*, 35: 37-54.

25. Mlodkowski, M., Walczak, D., & **Jankowski, P.** 2016. User-centered design and agile programming methods in the process of creating a geoportal supporting public participation in urban planning. *Annals of Geomatics*, 14(5): 597-608.

26. Moura, C.A., & **Jankowski, P.** 2016. Contribuições aos Estudos de Análises de Incertezas como Complementação as Análises Multicritérios – "Sensitivity Analysis for Suitability Evaluation". *Revista Brasileira de Cartografia,* 68(4): 665-684.

27. Iwaniak, A., Kaczmarek, I., Strzelecki, M., Lukowicz, M., & **Jankowski, P.** 2016. Enriching and improving the quality of linked data with GIS. *Open Geosciences*, 8(1): 323-336. https://doi.org/10.1515/geo-2016-0020, IF: 0.898

28. Andrienko, G., Andrienko, N., Fuchs.G, & **Jankowski, P.** 2016. Scalable and privacy-respectful interactive discovery of place semantics from human mobility traces. *Information Visualization*, 15(2): 117-153. http://dx.doi.org/10.1177/1473871615581216, IF: 0.639

29. Salap-Ayca, S., & **Jankowski, P.** 2016. Integrating local multi-criteria evaluation with spatially explicit uncertainty-sensitivity analysis. *Spatial Cognition & Computation*, 16(2): 106-132. http://dx.doi.org/10.1080/13875868.2015.1137578, IF: 0.760

30. Seidl, D.E, **Jankowski, P.**, & Tsou, M-H. 2016. Privacy and spatial pattern preservation in masked GPS trajectory data. *International Journal of Geographical Information Science*, 30(4): 785-800. http://dx.doi.org/10.1080/13658816.2015.1101767, IF: 2.065

31. **Jankowski, P.**, Czepkiewicz, M., Mlodkowski, M., & Zwolinski, Z. 2016. Geo-questionnaire: a method and tool for public preference elicitation in land use planning. *Transactions in GIS*, 20(6): 903-924. http://dx.doi.org/10.1111/tgis.12191, IF: 2.252

32. Swobodzinski, M., & **Jankowski, P.** 2015. The role of location and cost in individual choices of transportation improvement projects. *Professional Geographer*, 67(4): 527-540. http://dx.doi.org/10.1080/00330124.2015.1069123, IF: 1.624

33. Swobodzinski, M., & **Jankowski, P.** 2015. Evaluating user interaction with a web-based group decision support system: A comparison between two clustering methods. *Decision Support Systems*, 77: 148-157. http://dx.doi.org/10.1016/j.dss.2015.07.001, IF: 3.271

34. Seidl, D.E, Paulus, G., **Jankowski, P.**, & Regenfelder, M. 2015. Spatial obfuscation methods for privacy protection of household-level data. *Applied Geography*, 63: 253-263. http://doi.org/10.1016/j.apgeog.2015.07.001, IF: 3.162

35. Czepkiewicz, M., & **Jankowski, P.** 2015. Spatial analyses in research on quality of life in cities (in Polish). *Ruch Prawniczy, Ekonomiczny i Socjologiczny*, 77(1): 101-117. http://dx.doi.org/10.14746/rpeis.2015.77.1.6

36. Feizizadeh, B., Roodposhti, M., **Jankowski, P.**, & Blaschke, T. 2014. A GIS-based extended fuzzy multi-criteria evaluation for landslide susceptibility mapping. *Computers & Geosciences*, 73(2014): 208-221. http://doi.org/10.1016/j.cageo.2014.08.001, IF: 2.540

37. **Jankowski, P.**, & Brown, B. 2014. Health care accessibility modeling: Effects of change in spatial representation of demand for primary health care services. *Quaestiones Geographicae*, 33(3): 39-53. https://doi.org/10.2478/quageo-2013-0028, IF: 0.780

38. Swobodzinski, M., & **Jankowski, P.** 2014. Understanding User interaction patterns within online systems for public-participation transportation planning. *Transactions in GIS,* 18(3): 401-420. http://dx.doi.org/10.1111/tgis.12099, IF: 1.537

39. Ligmann-Zielinska, A., & **Jankowski, P.** 2014. Spatially-explicit integrated uncertainty and sensitivity analysis of criteria weights in multicriteria land suitability evaluation. *Environmental Modelling & Software*, 57: 235-247. http://doi.org/10.1016/j.envsoft.2014.03.007, IF: 4.528

40. **Jankowski, P.**, Fraley, G., & Pebesma, E. 2014. An exploratory approach to spatial decision support. *Computers Environment and Urban Systems*, 45 (2014): 101-113. http://doi.org/10.1016/j.compenvurbsys.2014.02.008, IF: 2.847

41. Feizizadeh, B., **Jankowski, P.**, & Blaschke, T. 2014. A GIS based spatially-explicit sensitivity and uncertainty analysis approach for multi-criteria decision analysis. *Computers & Geosciences*, 64(3): 81-95. http://doi.org/10.1016/j.cageo.2013.11.009, IF: 2.540

42. Andrienko, G., Andrienko, N., Bosch., H., Ertl, T., Fuchs, G., **Jankowski, P.**, & Thom, D. 2013. Discovering thematic patterns in geo-referenced tweets through space-time visual analytics. *Computing in Science & Engineering*, 15(3): 72-82. http://doi.ieeecomputersociety.org/10.1109/MCSE.2013.70, IF: 1.361

43. Hisakawa, N., **Jankowski, P.**, & Paulus, G. 2013. Mapping the porosity of international border to pedestrian traffic: a comparative data classification approach to a study of the border region in Austria, Italy, and Slovenia. *Cartography and Geographic Information Science*, 40(1): 18-27. http://dx.doi.org/10.1080/15230406.2013.762141, IF: 2.224

44. Ligmann-Zielinska, A., & **Jankowski, P.** 2012. Impact of proximity-adjusted preferences on rank-order stability in geographical multicriteria decision analysis. *Journal of Geographical Systems*, 14(2): 167-187. http://dx.doi.org/10.1007/s10109-010-0140-6, IF: 1.175

45. Weeks, J., Stoler, J., & **Jankowski, P.** 2011. Who's crossing the border: new data on undocumented immigrants to the United States. *Population, Space and Place*, 17(1): 1-26. http://dx.doi.org/10.1002/psp.563, IF: 1.895

46. **Jankowski, P.**, Andrienko, G., Andrienko, N., & Kisilevich, S. 2010. Discovering landmark preferences and movement patterns from photo postings. *Transactions in GIS*, 14(6): 833-852. http://dx.doi.org/10.1111/j.1467-9671.2010.01235.x, IF: 1.537

47. Ligmann-Zielinska, A., & **Jankowski, P.** 2010. Exploring normative scenarios of land use development decisions with an agent-based simulation laboratory. *Computers, Environment and Urban Systems*, 34(5): 409-423. http://doi.org/10.1016/j.compenvurbsys.2010.05.005, IF: 2.847

48. Gorsevski P.V, & **Jankowski, P.** 2010. An optimized solution of multi-criteria evaluation analysis of landslide susceptibility using fuzzy sets and Kalman filter. *Computers and Geosciences*, 36: 1005-1020. http://doi.org/10.1016/j.cageo.2010.03.001, IF: 2.540

49. Shahumyan, H., & **Jankowski, P.** 2010. Integration of the MOLAND model with GeoChoicePerspectives spatial decision support software for scenario evaluation. *PROCEEDINGS OF AGILE 2010 The 13th AGILE International Conference on Geographic Information Science*, Editors: Marco Painho, Maribel Yasmina Santos and Hardy Pundt, ISBN: 978-989-20-1953-6

50. **Jankowski, P.** 2009. Towards participatory geographic information systems for community-based environmental decision making. *Journal of Environmental Management*, 90(6): 1966-1971. http://dx.doi.org/10.1016/j.jenvman.2007.08.028, IF: 4.049

51. Andrienko, G., Andrienko, N., **Jankowski, P.**, & Kraak, M-J. 2009. Special issue: geospatial visual analytics. *Cartography and Geographical Information Science*, 36(3): 223-224. http://dx.doi.org/10.1559/152304009788988323, IF: 2.224

52. Ligmann-Zielinska, A., & **Jankowski, P.** 2008. A framework for sensitivity analysis in spatial multiple criteria evaluation. *Lecture Notes in Computer Science* No. 5266, Eds. T.J., Cova, H.J. Miller, K. Beard, A.U. Frank, Proceedings of 5th International Conference, GIScience 2002, Park City, Utah, USA, September 2008, Springer Verlag, Berlin-Heidelberg, p.217-233. http://dx.doi.org/10.1007/978-3-540-87473-7_14

53. Owen, A., **Jankowski, P.**, Williams, B., & Wulfhorst, J.D. 2008. Improving public participation in resource protection: Case studies on north-central Idaho. *Journal of Environmental Policy & Planning*, 10(3): 255-269. http://dx.doi.org/10.1080/15239080802242738, IF: 1.745

54. **Jankowski, P.**, Ligmann-Zielinska, A., & Swobodzinski, M. 2008. Choice Modeler: a web-based spatial multiple criteria evaluation tool. *Transaction in GIS*, 12(4): 541-561. http://dx.doi.org/10.1111/j.1467-9671.2008.01111.x, IF: 1.537

55. Gorsevski, P.V., & **Jankowski P.** 2008. Discerning landslide susceptibility using rough sets. *Computers, Environment and Urban Systems,* 32(1): 53-65. http://doi.org/10.1016/j.compenvurbsys.2007.04.001, IF: 2.847

56. Ligmann-Zielinska, A., Church, R., & **Jankowski, P.** 2008. Spatial optimization as a generative technique for sustainable multiobjective landuse allocation. *International Journal of Geographical Information Science*, 22(6): 601-622. http://www.tandfonline.com/doi/abs/10.1080/13658810701587495, IF: 2.065

57. Hope, A., Decker, J., & **Jankowski, P.**, 2008. Utility of gridded rainfall for IHACRES daily river flow predictions in Southern California watersheds. *Journal of the American Water Resources Association*, 44(4): 1-8. http://dx.doi.org/10.1111/j.1752-1688.2008.00172.x, IF: 1.659

58. **Jankowski, P.**, Tsou, M-H., & Wright, D.R. 2007. Applying internet geographic information system for water quality monitoring. *Geography Compass* 1(6): 1315-1337. http://dx.doi.org/10.1111/j.1749-8198.2007.00065.x

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60. Andrienko, G., Andrienko, N., **Jankowski, P.**, Keim, D., Kraak, M-J., MacEachren, A., & S. Wrobel. 2007. Geovisual analytics for spatial decision support: setting the research agenda. *International Journal of Geographical Information Systems*, 21(8): 839-857. http://dx.doi.org/10.1080/13658810701349011, IF: 2.065

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63. Nyerges, T., Brooks, T., **Jankowski, P.**, Rutherford, G.S., & Young, R. 2006. Web portal implementation to support public participation in transportation decision making. *ACM International Conference Proceedings Series*, 151: 67-68. http://dx.doi.org/10.1145/1146598.1146622

64. Gorsevski P.V., **Jankowski, P.**, & Gessler, P.E. 2006. A heuristic approach for mapping landslide hazard by integrating fuzzy logic with analytic hierarchy process. *Control and Cybernetics* 35(1): 121-146, IF: 0.44

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66. Gorsevski, P.V., **Jankowski, P.**, & Gessler P.E. 2005. Spatial prediction of landslide hazard using fuzzy k-means and Dempster-Shafer theory. *Transactions in GIS,* 9(4): 455-474. http://dx.doi.org/10.1111/j.1467-9671.2005.00229.x, IF: 1.537

67. Gorsevski, P.V., Gessler, P.E., & **Jankowski, P.** 2003. Integrating a fuzzy k-means classification and a Bayesian approach for spatial prediction of landslide hazard. *Journal of Geographical Systems*, 5(3): 223- 251. http://dx.doi.org/10.1007/s10109-003-0113-0, IF: 1.175

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70. Vert, G., Stock, M., **Jankowski, P.,** & Gessler, P. 2002. An architecture for the management of GIS data files. *Transactions in GIS* 6(3): 259-275. http://dx.doi.org/10.1111/1467-9671.00110, IF: 1.537

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73. **Jankowski, P.**, Andrienko, N., & Andrienko, G. 2001. Map-centered exploratory approach to multiple criteria spatial decision making. *International Journal of Geographical Information Science*, 15(2): 101-127. http://dx.doi.org/10.1080/13658810010005525, IF: 2.065

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76. Jankowska, M. A., & **Jankowski, P.** 2000. Is this a geolibrary: a case of Idaho geospatial data center. *Information Technology and Libraries*, 19(1): 4-10. IF: 0.81

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**PAPERS PRESENTED AT SCHOLARLY MEETINGS:**

1. **Jankowski, P.**, & Ligmann-Zielinska, A. 2017. *Sensitivity analysis for spatio-temporal models: an introduction*. Paper presented at the Association of American Geographers Annual Meeting, Boston, April 4 – April 9, 2017.

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14. *Spatially-explicit uncertainty and sensitivity analysis of criteria weights in land suitability analysis*. Association of American Geographers Annual Meeting, Los Angeles, April 13-18, 2013.

15. *Spatial uncertainty and sensitivity analysis for GIS multicriteria-based landslide susceptibility mapping*. Association of American Geographers Annual Meeting, Los Angeles, April 13-18, 2013

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18. *Participatory modeling methodology: tightening the GeoDesign loop*. paper presented at the 2nd ISPRS workshop on Pervasive Web Mapping, Geoprocessing and Services, Vancouver, BC, August 10-12, 2011.

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22. *Towards participatory geographic information systems for community planning and environmental decision making.* Paper presented at the 3rd International conference on "Economic Globalization and Environmental Policy" Warsaw School of Economics, May 25-26, 2006.

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30. *Dynamic maps as spatial decision support tools*. Paper presented at the 97th Annual Meeting of the Association of American Geographers in New York City, March 2001.

31. *Data and technology: tools and access* panelist at the workshop on Transportation Decision Making: Place, Community and the Quality of Life, organized by the National Research Council, January 28-29, 2001, Irvine.

32. *Research on participatory geographic information systems use: social-behavioral data analysis strategies.* Paper presented at the 1st International Conference GIScience 2000 in Savannah, Georgia, 2000.

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52. *Methodological problems in environmental economics.* Paper presented at the First International Seminar of Young Scholars on The Present State of Methodology in Economics in Blazejewko/Poland, September 1983.

53. *The development tendencies of services supply in suburban area*. Paper presented at the 4th European Congress on Leisure, Poznan/Poland, June 1980.

54. A *method of the optimal location of service outlets*. Paper presented at the conference on Development of Tourist-Oriented Services in Poland, Krakow, Poland, April 1980.

**INVITED KEYNOTE ADDRESSES, PRESENTATIONS, AND COLLOQUIA:**

"Geoprivacy Attitudes and Personal Location Masking Strategies of Internet Users in California", invited opening lecture in the 2019/20 Center for Spatial Business Speaker Series, University of Redlands, October 9, 2019.

"Do PPGIS Data Matter in Planning Decisions", keynote presented at the 2nd conference of International Society for Participatory Mapping, Espoo, Finland, June 17-19, 2019.

"Spatial Decision Support Systems: Past, Present, Future", keynote presented at the 8th Polish national conference "GIS in Science", Wroclaw, Poland, June 10-12, 2019.

"A Framework for Spatiotemporal Uncertainty and Sensitivity Analysis of Biogeographical Models", keynote at 7th BioGIS 2019 conference, Adam Mickiewicz University, Poznan, Poland.

"Lessons from multiple participatory mapping studies conducted in Poland", keynote at Participatory Mapping/GIS 2017 conference, San Luis Obispo, CA, August 1, 2017.

"Modern Methods and Tools for Public Participation in Urban Planning 2017", conference opening keynote, Adam Mickiewicz University, Poznan-Obrzycko, June 22-24, 2017.

"Spatial Decision Support Systems", invited lecture at the Institute of Geographic Sciences and Natural Resource Research, Chinese Academy of Sciences, Beijing, China, May 19, 2017.

"Uncertainty and Sensitivity Analysis in Spatial Models", invited lecture at Zhejiang University, Hangzhou, China, May 17, 2017.

"Sensitivity Analysis for Spatiotemporal Models", invited lecture at University of California Santa Barbara, February 23. 2017.

"Spatial Decision Support Systems: 25 years on", an invited talk at the Carinthia University of Applied Sciences, Villach, Austria, June 8, 2016.

"Geo-questionnaire: A Web-2 Method for Public Participation in Local Land Use Planning", invited talk at the Carinthia University of Applied Sciences, Villach, Austria, June 11, 2015.

"Volunteered Geographic Information: Opportunities and Challenges for 21th Century Geospatial Data Infrastructures", invited presentation at the 7th Forum of Polish Geographers, Adam Mickiewicz University, Poznan, Poland, May 26-27, 2011.

"Integrating a Multi-Objective Genetic Algorithm with Geographic Analysis and Online Visualization System: An Application to Hazard Management", invited presentation at the School of Information Science, University of Otago, April 1, 2011.

"Participatory Modeling Methodology: Tightening the GeoWeb Design Loop, coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 14, 2011.

"Participatory Geospatial Information System Architectures", coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 22, 2011.

"Participatory Role-Play in Collaborative Decision Support, coauthored with Timothy Nyerges, invited presentation at the University of Otago, March 14, 2011.

"Participatory Approaches to Social Learning and Decision Making", invited presentation at the symposium on Energy & Water Sustainability in Southern California, San Diego, Sep. 2010.

"Discovering Landmark Preferences and Movement Patterns from Photo Postings", invited lecture at the Department of Geography, University of California Santa Barbara, April 2010.

"Web-Based Participatory GIS for Public Involvement in Transportation Planning", invited lecture at the Urban Institute Ireland, University College Ireland, October 2009.

"Participatory GIS and online support for analytic-deliberative decision making: Reflections on a field experiment", invited lecture at the National Centre for Geocomputation, Maynooth, Ireland, December 2009.

"Spatial Patterns of Transboundary Migration: A view from the US-Mexico border", invited lecture presented

at the Carinthian University of Applied Science, Villach, Austria, June 10, 2009.

"Geographic Information Systems and Science: Challenges, Prospects and Applications", invitedlecture presented at the University of Economics, Poznan, Poland, June 23, 2009.

"Transboundary Water Resource and Participatory Decision Making", a keynote address at the 1st Spokane River Forum. Spokane, WA, January 22-23, 2009.

"Participatory GIS and On-line Decision Support: Reflections on a field experiment", invited presentation at the Department of Geography, Penn State University, January 20, 2009.

"Designing Participatory Geographic Information Systems", World Universities Network Global GIS Academy, on-line lecture presented on 12/17/2007.

"Spatial Patterns of Transboundary Migration: A view from the US - Mexico Border. University of Idaho, 11/15/2007

"Public Participation in Transportation Improvement Programming", San Diego Chapter of APA, San Diego 12/13/2007

"Current Research Problems in GIScience", College of Geographical and Geological Sciences, University of Poznan, Poland, June 2007

"Designing Collaborative Spatial Decision Support Systems", Urban Institute of Ireland, College University Dublin, Ireland, March 2007.

"Spatial Decision Support Systems in Conjunctive Water Administration", University of Agricultural Sciences in Wroclaw, Poland, March 2005.

"Participatory Planning and Decision Making Using Geographic Information Technology", lecture presented at the 7th GI & GIS Conference, Warsaw, June 2004.

"How to Design an Effective Spatial Decision Support System for Collaborative Water Resource Planning", open lecture at San Diego State University, March 2003.

"Landscapes of Poland", invited lecture to University of Idaho, October 1998.

"GIS for Every Day Problem Solving" presentation to Idaho tribal students, June 1998.

"Challenges and Opportunities for Geographic Information Science", invited presentation at the College of Geography, the University of Poznan, Poland, April 1997.

"Research Problems in Geographic Information Science", invited presentation at the Department of Geography, the Jagiellonian University, Cracow, Poland, May 1997.

"Collaborative Spatial Decision Making" invited presentation to the faculty and students of the College of Natural Resources, June 1996.

"Spatial Group Choice", invited presentation at the Idaho chapter of URISA meeting, Moscow, April 1996.

"Multicriteria Decision Making Techniques for Environmental Risk Evaluation", invited presentation at the CRESP workshop, Seattle, February 1996.

"GIS and Water Modeling Applications," three invited presentations at the Institute of Meteorology and Water Management, Poznan, Poland, June 1993.

"Global Pollution Problems: The Case of Eastern Europe," invited presentation in the series of Borah

sponsored seminars on the New World Order, University of Idaho, February 1991.

"Environment and Economics in Eastern Europe," a public lecture in conjunction with National Geography Awareness Week at Lewis Clark State College, Lewiston, Idaho, November 1990.

"GIS and Modeling," presentation to the College of Mines and Earth Resources Advisory Board, April 1990, Moscow.

"Poland - Yesterday, Today, and Tomorrow," guest speaker at the 1990 International Seminar Series, University of Idaho.

Speaker in the International Seminar Series, University of Idaho, 1989.

**RESEARCH REPORTS:**

Jankowski, P. 1998. Location-allocation modeling of demand for primary health care services in Idaho, Department of Geography, University of Idaho.

Chang, K., Jankowski, P., Otawa, T. McGown, 1995. Ground Water Vulnerability Mapping. Idaho Water Resources Research Institute, University of Idaho.

Jankowski, P. 1986. Report on the Map Projection Expert System Project, Department of Geography, University of Washington.

Jankowski, P., and Block, Z. 1984. Multiple Criteria Evaluation Methods for Environmental Resources (in Polish), Institute of Economics and Management of Tourism, Poznan.

Jankowski, P. 1982. Environmental Premises for the Development of Tourist Services in Suburban Areas (in Polish), Institute of Economics and Management of Tourism, Poznan.

Jankowski, P., Goldyn, R., and Rozmiarek, G. 1980. Mathematical Modeling of Water Quality (in Polish), Institute for Environmental Protection, Poznan.

**GRANTS AND CONTRACTS:**

**Research Grants:**

Open Knowledge Network for Spatial Decision Support, 2019-20, senior research personnel, funded by the National Science Foundation Convergence Accelerator program, $1,000,000

Spatially-Explicit Uncertainty and Sensitivity Analysis for GIS Multi-Criteria Models, Co-PI, funded by the National Science Centre, Poland, 2019 – 2022, 812,000 PLN ($214,000)

Conference: Agent-Based Modeling 2017: Agent-Based Models in Social, Human-Environment, and Life Sciences, Co-PI, funded by the NSF Division of Social Behavioral and Economic Research, $94,996

Development of Advanced Computational and Geographic Visualization Methods for Geospatial and Temporal Strategic Risk Assessment of Crime**,** with Crystal English Co-PI, funded by the National Institute of Justice (NIJ) Graduate Research Fellowship in Science, Technology, Engineering and Mathematics (STEM, 2016-2017, $50,000)

An Experimental Study of Internet-Based Public Participation Geographic Information System in the Context of Spatial Planning, National Science Centre, Poland, 2013 – 2015, PI, 573,000 PLN ($170,000)

A Spatiotemporal Approach to Sensitivity Analysis in Human-Environment Systems Models, funded by NSF Geography and Spatial Sciences Program, 2013 – 2015, Co-PI (PI: Dr. Arika Ligmann-Zielinska, Michigan State University), $200,000

Border Migration Pattern Analysis from Remote Sensing Data, funded by the Department of Homeland Security through the National Center for Border Security and Immigration at the University of Arizona, 2009-2011, Co-PI, $75,000

Target Mapping System for Spatial Data Mining and Visualization, Office of National Drug Control and Policy, 2007 – 2008, Senior Research Personnel, $950,000

A Border Security Decision Support System Driven by Remotely Sensed Data Inputs, funded by NASA REASoN program, 2003-2008, Co-PI, $1.8 Million. National Aeronautics and Space Administration (NASA), Research, Education, and Application Solutions Network (REASoN) NCC13-03007

An Internet Platform to Support Public Participation in Transportation Decision Making, funded by NSF Information Technology Research—Cross-foundation Program (medium size project), 2003-2007, PI, $300,000.

CommonGrounds – A Public Participation GIS Platform for Water Quality Data in San Diego Bay Watershed funded by the State of California, 2004 – 2006, Co-PI, $400,000

Development of Cartographic Databases from Satellite Imagery Using Neural Networks, funded by the Polish Committee for Scientific Research, 2003-2005, Co-PI, $76,000.

A study of Geographic Information Technology Use in Collaborative Water Resource Planning, funded by NSF joint programs in Geography and Regional Science and Risk and Management, 2001-2004, PI, $150,000

Geographic and Numeric Digital Data Center. Funded by the National Institute of Libraries and Archives, 1999-2001, Co-PI, $750,000

Decision Analysis Tools for Health Resource Allocation. Funded by the Idaho Department of Health and Welfare, 1998-99, PI, $15,000

Idaho Virtual Geospatial Data Library and Training Center. Technology grant to develop a clearinghouse for GIS data for Idaho. Funded by the Idaho State Board of Education, 1997-98, PI, $89,000

Collaborative Decision Making Under Distributed Space and Time Conditions. Research grant to design, implement and analyze a concept of participatory geographic decision support system on the Internet. Funded by the Idaho State Board of Education, 1996-97, PI, $35,000

Collaborative spatial decision making using geographic information technology and multicriteria models. Funded by NSF joint programs in Geography and Regional Science and Risk and Management, 1994-97, PI, $65,000

Collaborative spatial decision making using geographic information technology and multicriteria models. Analysis of experiment data. Funded by the NSF program Research Experience for Undergraduates. 1997, PI, $5,000

State-wide and sub-area transportation model feasibility study. Funded by the Idaho Department of Transportation, 1996, Co-PI, $75,000

Application of GIS for the assessment of ground water vulnerability. Funded by the National Research Council, 1995, PI, $3,500

Development and Verification of Ground Water Pollution Assessment Model. Funded by the Idaho Department of Water Resources, Division of Environmental Quality, 1993-94, Co-PI, $70,000

Workshop on applications of GIS technology for monitoring and management of environmental pollution. Funded by the Environmental Regional Center for Central and Eastern Europe, Budapest, Hungary, 1992. $3,200

Regional analysis of socioeconomic and cultural determinants of private sector development in Poland. Funded by UI Research Council, 1992-93, PI, $2,500

GIS-Modeling of Agricultural Pollution Critical Areas in Lake Watershed. Funded by the Idaho Mining and Mineral Resources Research Institute, 1991, PI, $6,000

Modeling the Economic Impacts of the Mining Industry on a Local Region. Funded by Idaho Mining and Mineral Resources Research Institute, 1990, PI, $6,000

Knowledge Representation Schemes for Knowledge-Based Graphic Information Systems. Funded by the Department of Geography, University of Washington, 1987, Co-PI, $3,500

Map Projection Expert System. Design and implementation of the Expert System prototype for the cartographic domain. Research founded from the Olympus Grant at the University of Washington, 1986, Co-PI, $8,000

The application of decision making techniques to regional planning. Funded the Institute of Economics and Management. Poland, 1983-84, PI.

Economic and environmental conditions of the development of tourist-recreational infrastructure in suburban areas. Funded the Institute of Economics and Management, Poland, 1981-82, Co-PI.

Design of economically optimal system of sewage purification plants on the Warta River. Funded the Institute of Environmental Protection, Poland, 1978-79, Co-PI.

**Teaching Grants:**

Course Development: Design for watershed management using GIS and simulation models. Funded by the USDA Higher Education Challenge Grant, 2000-02, Co-PI, $100,000

Interactive maps for learning through visual exploration and discovery. Funded by the Northwest Academic Computing Consortium, 2000-01, PI, $5,000

Internet-based thematic mapping service. Funded by the University of Idaho, 1999-2000, PI, $3,000

**Equipment Grants:**

An integrated spatial technology lab for GIS, Remote Sensing, and GPS. Funded by the Idaho State Board of Education, 2000-02, Co-PI, $100,000

Instrumentation and laboratory improvement in Geography at the University of Idaho. Funded by the NSF Instrumentation and Laboratory Improvement Program, 1992, PI, $29,000

**COURSES TAUGHT:**

At San Diego State University:

Introduction to GIS
GIS Applications (graduate level course)
Advanced GIS (graduate level course)
Spatial Decision Support Methods (graduate level course)
Geographic Information Systems for Business Decision Making (graduate level course)
Seminar on Participatory GIS (graduate level course)

At the University of Muenster, Germany:

Introductory GIS
Digital Cartography
Advanced GIS (graduate level course)
Spatial Decision Support Systems (graduate level course)

At University of Idaho:

Spatial Graphics
GIS Primer
Understanding Systems Dynamics, Honors Program Course
Decision Making Methods for Natural Resources Management (graduate level course)
Geographic Information Systems
Computer Mapping
Modeling and Simulation with Geographic Information Systems (graduate level course)

**THESES & DISSERATIONS ADVISED:**

Major Professor for 17 doctoral dissertations and 38 MS/MA theses, 1989 – 2019
External member on 4 dissertation committees abroad (Austria, Italy, Poland, Switzerland)

**SERVICE:**

2019 – 2021, 11th International GIScience Conference, General Chair

2020 - University Graduate Fellowship Committee

2018 - SDSU Enrollment Management Advisory Group

2017 - present, SDSU contact person for the Austrian Marshall Plan Foundation

2008 - present, member of Spatial Decision Support Consortium

2009 – 2010, Chair of Departmental Personnel Committee, Geography, SDSU

2006 – 2007, Chair of Departmental Policy Advisory Committee, Geography, SDSU

2006 – present, Member of California State University GIS Board

2003 – present, Coordinator of GIScience Certificate program at San Diego State University

2002-2005, Member of the sponsored projects committee for the University Consortium for Geographic Information Sciences (UCGIS)

1998, Founding Member of the University of Idaho Eco-Hydraulics research group

1997-2000, Evaluator of Phi Eta Sigma Honor Society UI candidates for the national

scholarship

2001-2002, Member of Information Technology Resource Management Council, State of Idaho

1998-2001, Representative of Higher Education in Idaho at Idaho Geospatial Committee

**Editorial Board Member**

2016-present, *Open Geosciences*, Editor-in-Chief
2002-present, *Transactions in GIS*, member of the editorial board
2003-2011, *Journal of Geographical Systems*, member of the editorial board
2007-2010, *SAGE Encyclopedia of Geography*, associate Editor for GIScience
1998-2003, *Journal of Geographic Information and Decision Analysis*, member of the editorial board
2002, *UNESCO's Encyclopedia of Life Support Systems*, editor of Spatial Decision Support Systems section

**Reviewer Responsibilities**

Journals:
2020. Professional Geographer
2017, Stochastic Environmental Modeling
2017, Cartographic Perspectives
2015- present, Questiones Geographicae
2010, Environmental Policy and Governance
2008, European Journal of Operations Research
2000- present, Computers, Environment and Urban Systems
2000- present, Computers & Geosciences
1996- present, Environment and Planning B:
1994- present, International Journal of Geographical Information Science
2000, Geographical and Environmental Modeling
1996- present, Transactions in GIS
1998- 99, Journal of Environmental Management
1999, Geomatica and Cartographic Perspectives
1999- present, Journal of Geographical Systems
1997- 2003, Journal of Geographic Information and Decision Analysis
1992-93, Green Library Journal
1992-93, Photogrammetric Engineering and Remote Sensing
1995-99, Cartography and Geographic Information Systems

Book Publishers:
2000, Oxford University Press
2001, Blackwell Publishers

Funding Agencies:
2012, Swiss National Science Agency
1994-present, NSF programs in Geography and Regional Science
1998-present, Social Sciences and Humanities Research Council of Canada
1998-01, NSF International Program for Western Europe
1993-97, NSF Instrumentation and Laboratory Improvement Program
1991, National Geographic Society

## OTHER PROFESSIONAL ACTIVITIES:

### Consulting:

1996-99, Research Consultant, Idaho Department of Health and Welfare
1988 (summer) The Georgette Group, Seattle, Washington
1987 (summer) Seattle City Light, Seattle, Washington
1979-80, Project Consultant, Institute for Environmental Protection, Poznan, Poland

### Membership in Professional and Scholarly Organizations:

1985-present, Association of American Geographers
1997-99, Regional Science Association International
1991-93, IEEE Computer Society

### Foreign Languages:

Fluent in Polish and German
Intermediate knowledge of Russian

### Professional Courses/Institutes Attended:

**"**Geoprocessing and Scripting with Python" course taught by ESRI, Redlands, CA, October 14-15, 2004

"Programming MapObjects with Visual Basic" course taught by ESRI, Sun Valley, Idaho, October 8-10, 1998

**"**Programming with Avenue" course taught by ESRI, Olympia, Washington, March 1-3 1995

"Using GRID with ArcInfo" course taught by ESRI, Olympia, Washington, April 5-9, 1993

"Knowledge-Based Modeling Design and Simulation" institute sponsored by the College of Engineering and Mines, University of Arizona, Tucson, May 23-27, 1988

"Design and Development of Expert Systems" institute sponsored by the Center for Educational Development and Research, University of Washington, Seattle, March-May 1986

## HONORS AND AWARDS:

Fulbright Scholar, Adam Mickiewicz University, Poznan, Poland, January - June 2019
San Diego State University Alumni Distinguished Faculty Award, 2018
https://www.youtube.com/watch?v=piEhDJ9LQnY&t=7s
William Evans Visiting Fellow, University of Otago, New Zealand, March-April, 2011
Science Foundation Ireland, Walton Visiting Professor, University College Dublin, 2009
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, December 2008
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, June 2006
Fulbright Senior Specialist, Westfaelische Wilhelms Universitaet, Muenster, Germany, April 2005
Fulbright Senior Specialist, Adam Mickiewicz University, Poznan, Poland, June 2004
Outstanding Faculty Award for Assisting Students with Disabilities, University of Idaho, 2000
Outstanding Faculty Award for Teaching Excellence in 1993-1994, University of Idaho
Edward L. Ullman Award for Distinguished Achievement as a Ph.D. student in Geography, Department of Geography, University of Washington, 1989
Dissertation Fellowship, University of Washington, 1988

Fulbright Scholarship, Polish-American Fulbright Commission, University of Washington, 1984-85
International Association of Students in Economics and Business Management (AIESEC) Scholarship, Preussag A.G., Hannover, West Germany, summer 1977
"Primus Inter Pares" - Award of Rector of the Poznan University of Economics for academic excellence, 1977