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, University of Washington
M.S., 1979, Poznań University of Economics and Business

POSITIONS HELD
2003 – present, Professor, San Diego State University (SDSU)
2019 – present, Director, Joint Doctoral Program in Geography, SDSU & Univ. of CA, Santa Barbara
2013 – 2020, Professor and Chair, Department of Geography, 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 = 48, based on Google Scholar)

Refereed Publications:

1. Mortaheb, R.,**Jankowski, P**.; Murray, A.; Bastian. 2024. M. Form-Based Code Revisited: Leveraging Geographic Information Systems (GIS) and Spatial Optimization to Chart Commuting Efficiency Landscapes under Alternative City Planning Frameworks. *Land*, *13*, 1190. https://doi.org/10.3390/land13081190

2. **Jankowski, P**.; Şalap-Ayça, S.; Najwer, A.; Ligmann-Zielińska, A.; Zwoliński, Z. 2024. Effectiveness of Adjacent and Bivariate Maps in Communicating Global Sensitivity Analysis for Geodiversity Assessment. *ISPRS Int. J. Geo-Inf*, *13*, 199. https://doi.org/10.3390/ijgi13060199

3. Młodkowski, M and **Jankowski, P**. 2024. Usability of PPGIS tools exemplified by geodiscussion – a tool for public participation in shaping public space" *Open Geosciences*, vol. 16, no. 1, 2024, pp. 20220668. https://doi.org/10.1515/geo-2022-0668

4. Ligmann-Zielinska, A., **Jankowski, P**., Najwer, A., & Zwoliński, Z. 2024. A streamlined approach to uncertainty and sensitivity analysis for models with spatial outputs with an example from geodiversity assessment. *International Journal of Geographical Information Science*, 1–24. https://doi.org/10.1080/13658816.2024.2348065

5. Du, J., Ye, X., **Jankowski, P**., Sanchez, T., & Mai, G. 2023. Artificial intelligence enabled participatory planning: a review, *International Journal of Urban Sciences*, 28:2, 183-210, https://doi.org/10.1080/12265934.2023.2262427

6. **Jankowski, P**. Ligmann-Zielinska, A., Najwer, A. Zwolinski, Z. 2023. An Integrated Uncertainty and Sensitivity Analysis in Spatial Multicriteria Models. *Proceedings of the 12th International Conference on Geographic Information Science*. Roger Beecham and Jed A. Long and Dianna Smith and Qunshan Zhao and Sarah Wise (Eds.), LIPCS Vol. 277, https://doi.org/10.4230/LIPIcs.GIScience.2023.42

7. Mortaheb, R., **Jankowski P**. 2022. Smart city re-imagined: City planning and GeoAI in the age of big data. Journal of Urban Management. https://doi.org/10.1016/j.jum.2022.08.001

8. Najwer, A., **Jankowski, P**., Niesterowicz, J. Zwolinski, Z. 2022. Geodiversity assessment with global and local spatial multicriteria analysis. International Journal of Applied Earth Observation and Geoinformation. 107(2022) https://doi.org/10.1016/j.jag.2021.102665

9. An, L.; Bohnett, E.; Battle, C.; Dai, J.; Lewison, R.; **Jankowski, P**.; Carter, N.; Ghimire, D.; Dhakal, M.; Karki, J.; and Zvoleff, A.Sex-Specific Habitat Suitability Modeling for Panthera tigris in Chitwan National Park, Nepal: Broader Conservation Implications. Sustainability **2021**, 13, 13885. https://doi.org/10.3390/su132413885

10. Gordon, S.N., Murphy, P.J., Galo, J.A., Huber, P., Hollander, A., Edwards, A., **Jankowski, P**. 2021. People, Projects, Organizations, and Products: Designing a Knowledge-Graph to Support Multi-Stakeholder Environmental Planning and Design. ISPRS International Journal of Geo-Information., 10(12), 823; https://doi.org/10.3390/ijgi10120823

11. Şalap, S-A., **Jankowski, P.**, Clarke, & Nara., A. 2021. Is less more? Experimenting with visual stacking of coincident maps for spatial global sensitivity analysis in urban land-use change modeling. Environmental Modelling and Software **145** (2021) 105181; https://doi.org/10.1016/j.envsoft.2021.105181

12. Erlacher, C.; Anders, K.-H.; **Jankowski, P**.; Paulus, G.; Blaschke, T. 2021. A Framework for Cloud-Based Spatially-Explicit Uncertainty and Sensitivity Analysis in Spatial Multi-Criteria Models. ISPRS Int. J. Geo-Inf. 10(4), 244; https://doi.org/10.3390/ijgi10040244

13. **Jankowski, P**., Forss, K., Czepkiewicz, M., Saarikoski, H., Kahila, M. 2021. Assessing impacts of PPGIS on urban land use planning: evidence from Finland and Poland. European Planning Studies. https://doi.org/10.1080/09654313.2021.1882393

14. Stoler, J., Ter-Ghazaryan, D., Sheskin, I., Pearson, A.L., Schnakenberg, G., Cagalanan, D., Swanson, K., **Jankowski, P**. 2021. 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, 111:2, 317-342, DOI: 10.1080/24694452.2020.1766412

15. 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

16. **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

17. 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

18. Ligmann-Zielinska, A., Siebers P-O., Maglioccia, 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

19. 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

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

21. 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

22. 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

23. 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

24. 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

25. 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

26. 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

27. 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

28. 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

29. 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

30. 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

31. 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

32. 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

33. 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

34. **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

35. 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

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38. 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.

39. 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. https://doi.org/10.14393/rbcv68n4-44274

40. 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

41. 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

42. 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

43. 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

44. **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

45. 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

46. 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

47. 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

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50. **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

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

19. *Spatial uncertainty and sensitivity analysis for multiple criteria land suitability evaluation.* Paper presented at the 7th International GIScience Conference, Columbus, Ohio, September 18-21, 2012.

20. *Exploring city structure from georeferened photos using graph centrality measures.* Paper presented at the European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Athens September 5-9, 2011.

21. *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.

22. *Geocollaboration with discourse maps.* Paper presented at the 2008 Annual Meeting of the Association of American Geographers, Boston, MA April 15-19, 2008.

23. *A framework for sensitivity analysis in multiple criteria spatial decision making*. Paper presented at the 2007 Annual Meeting of the Association of American Geographers, San Francisco, CA April 17-21, 2007.

24. *A rough set theory-based approach to handling vagueness and uncertainty in spatial data classification.* Paper presented at the NATO Advanced Workshop on Fuzziness and Uncertainty in GIS for Environmental Security and Protection, Kiev, Ukraine June 28 – July 1, 2006.

25. *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.

26. *Participatory planning and decision making using geographic information technology*. Paper presented at the 10th European Community Geographic Information & GIS Workshop, Warsaw, Poland, June 23-25, 2004.

27. *Design considerations for participatory GIS*. Paper presented at the 2nd Annual PPGIS Conference, Portland, Oregon, July 20-22, 2003.

28. *Evaluation of models and software tools for mediated participation in local planning and decision making*. Paper presented at the 2nd Annual PPGIS Conference, Portland, Oregon, July 20-22, 2003.

29. *An experimental study of geographic information technology use in collaborative water resource planning: preliminary results*. Paper presented at the 2nd GIScience Conference, Boulder, Colorado, September 25-28. September 2002.

30. *Multi-criteria decision analysis in interoperable geoprocessing*. Presentation (by I.S. and A.W.) at OpenGIS Technical Committee meeting, London, UK, 2002.

31. *Enhanced adaptive structuration theory: a theoretical framework for investigating the use of spatial information technologies in participatory decision making situations*. Paper presented at the 5th AGILE Conference on Geographic Information Science, Mallorca, Spain, April, 2002.

32. *Towards a framework for research on geographic information-supported participatory decision making*. Paper presented at the ESF-NSF Workshop on Access to Geographic Information and Participatory Approaches Using Geographic Information, Spoleto, 6-8 December 2001.

33. *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.

34. *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.

35. *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.

36. *GIS and multicriteria decision making*. Paper presented at the 95th Annual Meeting of the Association of American Geographers in Honolulu, 1999.

37. *A comparison of confirmatory and exploratory data analysis for studying group decision making with GIS*. Paper presented at the 93rd Annual Meeting of the Association of American Geographers in Boston, 1997.

38. *Use of multiple criteria decision tools in GIS-supported collaborative decision making.* Paper presented at the Annual Meeting of the Regional Science Association International, Buffalo, 1997.

39. *Spatial Choice - A spatial decision support tool for collaborative spatial decision making.* Paper presented at the 92nd Annual Meeting of the Association of American Geographers in Charlotte, 1996.

40. *Spatial decision support systems for groups.* Paper presented at the 91st Annual Meeting of the Association of American Geographers in Chicago, 1995.

41. *Integrating GIS and multiple criteria decision making methods.* Paper presented at the International Geographical Union Regional Conference "Environment and Quality of Life in Central Europe," IGU, Prague, Czech Republic, 1994.

42. *Integration of MCDM and GIS.* Paper presented at the 90th Annual Meeting of the Association of American Geographers, San Francisco, California, 1994.

43. *Integrated geographic information system for modeling nonpoint source pollution events.* Paper presented at the Fourth Annual Conference on AI, Simulation, and Planning in High Autonomy Systems, IEEE Computer Society Press, Tucson, Arizona, 1993.

44. *Modeling languages for spatial decision support systems.* Paper presented at the 88th Annual Meeting of the Association of American Geographers, San Diego, 1992.

45. *GIS modeling of agricultural pollution critical areas in lake watershed.* Paper presented at the International Symposium on Environmental Change and GIS, Asahikawa, Japan, 1991.

46. *Cartographic modeling of non-point source pollution critical areas for rivers and lakes.* Paper presented at the Eurocarto IX, Warsaw, Poland, 1991.

47. *Identification of nonpoint source pollution critical areas for the Coeur d'Alene lake.* Paper presented at the Nonpoint Source Conference, Tacoma, Washington, 1991.

48. *A structured modeling approach to model management in spatial decision support systems.* Paper presented at the annual convention of the AAG, Miami, 1991.

49. *A model management approach to modeling and simulation of natural systems.* Paper presented at the 4th International Symposium on Spatial Data Handling, Zurich, Switzerland, 1990.

50. *A model management approach to analytical modeling in geoprocessing systems.* Paper presented at the Specialist Meeting on Spatial Decision Support Systems, National Center for Geographic Information Analysis, Santa Barbara, March 1990.

51. *Suitability of knowledge representation for GIS.* Paper presented at the First International Geographic Information Systems Symposium, Washington, D.C., November 1987.

52. *Design consideration for MaPKBS - Map Projection Knowledge Based System.* Paper presented in cooperation with Tim Nyerges at the AAG Annual Meeting, Portland, Oregon, April 1987.

53. *Multicriteria analysis of resource development projects.* Paper presented at the AAG Annual Meeting, Minneapolis, Minnesota, May 1986.

54. *Economic theory and environmental issues in Poland.* Paper presented at the Western Slavic Association Conference, Portland, Oregon, March 1986.

55. *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.

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

57. 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:

Symposium on Data-Intensive Geospatial Understanding in the Era of AI and CyberGIS: Human-Centered Spatial Decision Support Systems Panel Session. AAG 2022 Conference (online). Invited panelist.

"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:

CIVIC-PG Track B Walk to Healthy Foods: Modeling Community-Based Assets to Increase Healthy Food Access in Underserved Communities, 2022-23, Co-PI, funded by NSF 22-565 Civic Innovation Challenge, $50,000.

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

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**,** 2016-17, Co-PI, funded by the National Institute of Justice (NIJ) Graduate Research Fellowship in Science, Technology, Engineering and Mathematics $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, research collaborator, $200,000

A Spatiotemporal Approach to Sensitivity Analysis in Human-Environment Systems Models, funded by NSF Geography and Spatial Sciences Program, 2013 – 2015, Co-PI, $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 18 doctoral dissertations and 38 MS/MA theses, 1989 – 2023
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

2015 – present, Spatial Decision Support Consortium, member of the Board

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

2022-present, *Land*, member of the editorial board
2016-present, *Open Geosciences*, Editor-in-Chief
2002-2021, *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