

CURRICULUM VITAE OF BRYAN C. PIJANOWSKI

ADDRESS AND CONTACT INFORMATION

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EDUCATION

- 1991 Ph.D., Zoology,
Michigan State University, East Lansing, Michigan
Dissertation: "The adaptive significance of brood reduction and clutch size in the tree swallow" Major Advisor: Donald Beaver
- 1983 B.S., Biology,
Hope College, Holland, Michigan

ACADEMIC AND PROFESSIONAL APPOINTMENTS

- 2016-2022 Executive Producer, *Global Soundscapes! A Mission to Record the Earth* (An IMAX-Giant Screen Experience)
- 2013-present University Faculty Scholar, Purdue University
- 2013-present Director, Discovery Park Center for Global Soundscapes
- 2011-present Professor, Department of Forestry and Natural Resources, Purdue University
- 2011-present Co-Director (with Brian Miller & Kara Salazar), TippingPointPlanner for the Sustainable Communities Extension Program
- 2010-2014 Director, Environmental Engineering US Department of Education GAANN Program (Departments of Forestry and Natural Resources, Agriculture and Biological Engineering, and the Lyles School of Civil Engineering)
- 2008-2012 Co-Director, Partnering for Land Use Sustainability (PLUS) Signature Area, FNR
- 2003-2011 Associate Professor, Department of Forestry and Natural Resources, Purdue University
- 2001-2003 Assistant Research Professor, Department of Zoology, Michigan State University
- 1999-2001 Specialist, Department of Geography, Basic Science and Remote Sensing Initiative, Michigan State University
- 1996-2001 Assistant to the Deans, College of Natural Science, Michigan State University
- 1996-2001 Specialist, Division of Science and Mathematics Education, Michigan State University
- 1996-2001 Assistant Research Professor, Department of Entomology, Michigan State University
- 1992-1996 Visiting Assistant Professor, Department of Entomology, Michigan State University

HONORS, AWARDS AND RECOGNITIONS

- 2015 6th Distinguished Holtry Lecture Series speaker, South Dakota State University and USGS EROS Data Center, Brookings, South Dakota
- 2014 BRAVO Award, Purdue University
- 2014 Undergraduate Mentoring Award, Purdue University Housing and Residential Facilities

2013	Review Team, National Academy of Sciences, <i>Science of Land Change Modeling</i> , National Research Council Publications.
2013	Seed for Success Award, Executive Vice President for Research and Engagement
2013	Millionaires Club, College of Agriculture
2012	Author Team, National Academy of Sciences, <i>Drakes Bay Oyster Company Draft EIS Assessment Study</i> , National Research Council Publications.
2010	Faculty of 1000 Award, Top Papers in Science and Engineering (Pijanowski et al. 2010, <i>Landscape Ecology</i>)
2002	Best of Show. Poster on the “Muskegon River Watershed Mega-Model Project”. Selected best out of 83 posters at the MSU Land Use Forum.
1998	International Scholars – MSU Chapter (Phi Beta Delta). Special Recognition for Contributions to MSU Study Abroad Programs.
1991	Vetward-Bound Teaching Excellence Award, College of Veterinary Medicine, MSU.
1991	National Wilson Society and Cooper Ornithological Society Scholastic Achievement Award: Chosen as One of the Nation’s Top Ornithological Student-Researchers.
1991	George and Martha Wallace Endowed Scholarship. Department of Zoology, MSU.
1987	Sigma-Xi Graduate Student Research Award, Michigan State University.
1979-1983	Michigan ACT Competitive Scholarship.

RESEARCH

My research focusses on four areas of sustainability at landscape to global scales: (1) the use of the soundscape ecological approach to study ecosystem health and affects from disturbance (climate, land use, invasive species, livestock grazing, wildfire, toxins and noise) in a variety of ecosystems around the world (tropical, pasture/grassland, temperate, desert and arctic/subarctic); (2) sustainable land use systems using coupled spatial-temporal modeling of watersheds, biodiversity, food security systems and green infrastructure best management practices; (3) invasive species modeling in forested ecosystems; and (4) use of decision support systems for natural resource management at local to regional scales.

- Published > 120 scientific articles
- Maintains 7 major web sites for research and public engagement with data and tools
- Cited over 3,400 times in Google Scholar
- h-index = 31 in Google Scholar
- i10 index = 55
- Secured over \$21,000,000 of funds
- Served as PI/Co-PI on grants from 5 of the 7 NSF Directorates
- Mentored over 18 graduate student advisees, 5 postdoctoral associates, 15 undergraduate researchers, and 13 visiting scientists
- Served on advisory committees for another >25 graduate students
- Supervised > 5 full time staff members

PUBLICATIONS

([¥]Visiting Scientist, *Graduate Student Advisee, **Postdoctoral Associate, [¢]Purdue Staff Member, ^ˆGraduate Student Committee Member; manuscripts research themes of soundscape ecology=SE, sustainable land use systems= LU, invasive species biology = IB, and decision support systems = DS)

Manuscripts In Review/Revision

1. *Khanaposhtani Ghadiri, M., A. Gasc**, L. J. Villanueva-Rivera*, J. Jung**, M.J. Mossman and B.C Pijanowski. How roads affect forest bird distributions and soundscape diversity differentially at Aldo Leopold’s shack: Noise and its effect on ecological “sacred ground”. *Landscape Ecology*. (theme=SE)
2. **Madurapperuma, B.D., B. Peking**, A. Tayyebi*, J. Doucette[¢] and B.C. Pijanowski. A regional assessment of urbanization trends for the USA from 2001 to 2050. *Regional Environmental Change*. (LU)
3. *Napoletano, B., B.C. Pijanowski and J.B. Dunning. Regional and landscape factors affecting avian species-richness across the conterminous USA. *Journal of Environmental Informatics*. (LU)

4. [^]Zhang, B., A. Gasc** and B.C. Pijanowski. BigSounds and BigData: Addressing soundscape ecology studies of hundreds of terabytes using HPC platform tools. *IEEE Transactions of the XSEDE Society*. (SE)
5. Gorko, T., A. Malik, M. Harris*, J.X. Tee, R. Maciejewski, C. Qian, S. Afzal, B. Pijanowski and D. Ebert. A multi-scale correlative approach for multi-variate spatial-temporal soundscape-sentiment data. *IEEE Transactions of the Visualization and Information Sciences Society*. (SE)
6. [^]Naghibi, F., M. Delavar and B.C. Pijanowski. Urban growth modeling using cellular automata constrained by the artificial bee colony optimization algorithm: Application and validation for the city of Urmia, Iran. *International Journal of Geographic Information Science*. (LU)

Manuscripts/Book in Preparation

7. Pijanowski, B.C. *Soundscape Ecology: Principles, Tools and Applications of a New Science*. University of Chicago Press. Due for Jan 2018 release. (SE)
8. Pijanowski, B.C., Gasc**, A., K. Bellisario*, A. Coldwell, D. Francomano*. Soundscapes as coupled natural human systems: How sonic feedbacks affect ecosystem services in landscapes. Target journal *Landscape Ecology*. (SE)
9. **Gasc, A., D. Francomano*, J.B. Dunning and B.C. Pijanowski. Merging soundscape and ornithological research: Synergistic opportunities. *Auk* (requested by Editor-in-Chief). (SE)
10. *Bellisario, K., A. Gasc**, D. Francomano* and B.C. Pijanowski. Use of the computational musicological approach to separate biophony, geophony and anthrophony signals in soundscape recordings in temperate, desert and tropical ecosystems. Target journal *Ecological Informatics*. (SE)
11. Pijanowski, B.C., A. Gasc**, B. Zhang [^], D. Francomano*, B. Gottesman* and K. Bellisario*. Dynamics of soundscapes in various ecosystems: Concepts and applications for a new science. Target journal *Ecological Monographs*. (SE)
12. *Harris, M., A. Gasc**, K. Bellisario* and B.C. Pijanowski. The *Record the Earth* citizen science program: How soundscape composition impacts affective behaviors. Target journal *Environmental Education*. (SE)
13. Dietz, M., Betancourt, J., Hobbs, T., Hooten, M., Keitt, T., Weathers, K., White, E., Tuner, W., Lunch, C., Pijanowski, B., Clark., J., Read, E., and Laney, C. Rekindling ecological forecasting: a research agenda for the 21st century. Target journal *Frontiers in Ecology and Evolution*. (LU)
14. [^]Long, K. and B.C. Pijanowski. Water scarcity across China: Analysis of causes and consequences of a vital natural resource. Target journal *Applied Geography*. (LU)

Journal Articles and Book Chapters in Print or in Press

118. [^]Nunez-Mir, G.C., B.V. Iannone III, B.C. Pijanowski, N. Kong, and S. Fei. 2016. Automated content analysis: Addressing the big literature challenge in ecology and evolution. *Methods in Ecology and Evolution*. (IB)
117. Omrani, H., A. Tayyebi* and B. Pijanowski. 2016. Integrating the multi-label land use concept and cellular automata with the ANN-based Land Transformation Model. *Computers, Environment and Urban Systems*. (LU)
116. Omrani, H., Abdallah, A. Tayeebi* and B. Pijanowski. 2016. Modelling land-use change with dependence among labels. *Journal of Environmental Informatics*. (LU)
115. *Tayyebi, A., Tayyebi, A.H., Peking B.***, Omrani, H., and B.C. Pijanowski. 2016. Simulating multiple historical land use changes at a regional scale: Applying quantity and locational error metrics to assess the performance of a backcast model for the Ohio River Basin. *Journal of Environmental Informatics*. (LU)
114. Liu, Y., L.O. Theller, B.C. Pijanowski and B.A. Engel. 2016 Optimal selection and placement of green infrastructure to reduce impacts of land use change and climate change on hydrology and water quality: An application to the Trail Creek Watershed, Indiana. *Science of the Total Environment* 553:149-163. (LU)

113. *Davis, A., J. Jung**, B. Pijanowski and E. Minor. 2016. Combined vegetation volume and “greenness” affect urban air temperature. *Applied Geography* 71:106-114. (LU)
112. Kirkpatrick, E., A. Davis* and B. Pijanowski. 2016. Estimating the Environmental Impacts of Sprawling Parking Lots in the United States: Two Case Studies. In *Parking Lot Planning* (Donald Shoup, Ed.). American Planning Association Press. (LU)
111. Pijanowski, B.C. 2016. Soundscape science: Acoustics of place, landscapes and ecosystems. In *Noise in Aquatic Life*. A. Popper, Ed., Springer Acoustics Book Series. (SE)
110. Pijanowski, B.C. 2016. Digital nature: will we lose the aesthetic appreciation of earth’s acoustic heritage? In *Dawn or Doom*, J. McCartney Ed., Purdue University Press. (SE)
109. *Tayyebi, A., B.C. Pijanowski, and B.K. Pekin**. 2015. Land use legacies of the Ohio River Basin: Using a spatially explicitly land use change model to assess past and future impacts on aquatic resources. *Applied Geography* 100-111. (LU)
108. Iannone, B.V. III, C. Oswalt, A. Leibold, Q. Guo, K. Potter, G. Nunez-Mir, S. Oswalt, B. Pijanowski and S. Fei. 2015. Region specific patterns and drivers of macroscale forest plant invasions. *Diversity and Distributions* 21:1181-1192. (IB)
107. Oswalt, C., S. Fei, Q. Guo, B. Iannone, S. Oswalt, B. Pijanowski, and K. Potter. 2015. A subcontinental view of forest plant invasions. *NeoBiota* 24:49-54. (IB)
106. Fei, S., B. Pijanowski, C. Oswalt, Q. Guo, B. Iannone, A. Liebold, W. Hargrove, G. Nunez-Mir, and T. Clark. 2015. Understanding macroscale invasion dynamics processes. *Journal of Forestry* 113: 135-136. (IB)
105. Iannone, B.V. III, K.M. Potter, Q. Guo, A.M. Leibold, B. C Pijanowski, C. Oswalt and S. Fei. 2015. Biological invasion hotspots: a trait-based perspective reveals new sub-continental patterns. *Ecography* 38:1-9. (IB)
104. Andresen, J., N. Moore, B. Lofgren, B.C. Pijanowski and D. Kim. 2015. Projected land-cover change effects on East African rainfall under climate change. *International Journal of Climatology* 35(8):1772-1783. (LU)
103. *Song, W., B.C. Pijanowski, and A. Tayyebi*. 2015. Urban expansion and its consumption of high-quality farmland in Beijing, China. *Ecological Indicators* 54:60-70. (LU)
102. Lomolino, M., B.C. Pijanowski, and A. Gasc**. 2015. The silence of biogeography. *Journal of Biogeography* 42(7):1187-1196. (SE)
101. **Jung, J. and B.C. Pijanowski. 2015. LidarHUB: A free and open source software platform for web-based management and analysis of LiDAR Data. *Geosciences Journal* 4:741-749. (DS)
100. *Villanueva-Rivera, L.J., and B.C. Pijanowski. 2015. Package SoundEcology. *GitHub* software distribution services. (DS)
99. Pijanowski, B.C. 2015. Terrestrial soundscapes: Status of ecological research in natural and human-dominated landscapes. In *Advances in Experimental Medicine and Biology*. (SE)
98. Pijanowski, B.C., A. Tayyebi*, J. Doucette, B. Pekin**, D. Braun and J. Plourde*. 2014. A Big Data Urban Growth Simulation at a National Scale: Configuring the GIS and Neural Network based Land Transformation Model to Run in a High Performance Computing (HPC) Environment. *Environmental Modeling and Software* 51:250-268. (LU)
97. Smith, J.W. and B.C. Pijanowski. 2014. Human and policy dimensions of soundscape ecology. *Global Environmental Change* 28:63-74. (SE)
96. *Tayyebi, A., B.C. Pijanowski, M. Linderman and C. Gratton. 2014. Comparing three global parametric and local nonparametric models to simulate land use change in diverse areas of the world. *Environmental Modelling and Software* 59:202-212. (LU)
95. *Song, W. and B. C. Pijanowski. 2014. The effects of China’s cultivated land balance program on potential land productivity at a national scale. *Applied Geography* 46: 158-170. (LU)

94. LaBeau, M., D.M. Robertson, A.S. Mayer, B.C. Pijanowski and D. Saad. 2014. Effects of future urban and biofuel crop expansions on the riverine export of phosphorous to the Laurentian Great Lakes. *Ecological Modelling*. 277:27-37. (LU)
93. *Tayyebi, A., B.C. Pijanowski. 2014. Modeling multiple land use changes using ANN, CART and MARS: Comparing tradeoffs in goodness of fit and explanatory power of data mining tools. *Journal of Applied Earth Observation and Geoinformation* 28:102-116. (LU)
92. Pontius, R.G., J-C. Castella, T. de Nijs, Z. Duan, E. Fotsing, N. Goldstein, K. Kok, E. Hoomen, C.D. Lippitt, W. Pijanowski, B.C. 2014. Lessons and challenges in land change modeling as revealed by map comparisons and panel discussions. In *Lessons and Challenges in Land Change Modeling*. Brouwer, Goetz and Pontius, eds., Clark University Press (LU)
91. *Alexandridis, K., and B. Pijanowski. 2013. Spatially-explicit Bayesian information entropy metrics for calibrating landscape transformation models. *Entropy* 15:1-15. (LU)
90. *Plourde, J., B. Pijanowski, and B. Pekin**. 2013. Evidence of increased monoculture cropping in the Central United States. *Agriculture, Environment and Ecosystems*. 165:50-59. (LU)
89. Foroutan, F., M. R. Delavar, B.C. Pijanowski, and B.N. Araabi. 2013. Cellular automata and genetic algorithm integration for zone-based urban growth modeling: a case study of the Isfahan Metropolitan Area, Iran. *ISPRS International Journal of Geo-Information*. (LU)
88. *Villanueva-Rivera, L.J., and B.C. Pijanowski. 2013. Package Pumillo. *GitHub* software distribution services. (SE)
87. *Washington-Ottombre, C. and B. Pijanowski. 2013. The role of local rural institutions and rural producer organizations in household adaptation to climate change and variability in rural Kenya. *Regional Environmental Change*. 13(3): 537-550. (LU)
86. *Tayyebi, A., B.K. Pekin**, B.C. Pijanowski, J. Plourde*, J. S. Doucette^c, and David Braun^c. 2013. Hierarchical modeling of urban growth across the conterminous USA: developing meso-scale quantity drivers for the Land Transformation Model. *Journal of Land Use Science* 8(4): 422-442. (LU)
85. Kumar, S., V. Merwade, S. Rao and B. C. Pijanowski. 2013. Land-cover change history in the United States from 1850 to 2000: Socioeconomic and biophysical determinants of change. *Ambio*. 42(3):285-291. (LU)
84. **Pekin, B.K., J. Jung**, L. Villanueva*, B.C. Pijanowski and J. Ahumada. 2012. Modeling biodiversity habitat using soundscape recordings and LIDAR-derived metrics of vertical canopy structure in a neotropical rainforest. *Landscape Ecology*. 27(10):1513-1522. (LU)
83. **Pekin, B.K. and B.C. Pijanowski. 2012. Land use intensity and global endangerment probability of mammal species. *Diversity and Distributions*. 18(9):909-918. (LU)
82. **Jung, J., B. Pekin** and B.C. Pijanowski. 2012. Mapping old-growth, secondary-growth and selectively logged tropical forests using discrete return LIDAR. *Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 6(6):2453-2461. (LU)
81. **Jung, J., and B.C. Pijanowski. 2012. Mapping vegetation volume in urban environments by fusing LiDAR and multispectral data. *Korean Journal of Remote Sensing* 28(6):661-670. (LU)
80. *Tayyebi, A., Pekin, B.K.**, B.C. Pijanowski, J. Plourde*, J. Doucette^c, and D. Braun. 2012^c. Modeling urban growth across the conterminous USA: A national scale application of the Land Transformation Model. *Journal of Land Use Science*. 10.1080/1747423X.2012.675364 (LU)
79. Guastavino, C. and B.C. Pijanowski. 2012. Soundscape ecology: a worldwide network. *Journal of the Acoustical Society of America* 130(4): 2531-2531. (SE)
78. **Ray, D., B.C. Pijanowski, A. Kendall and D. Hyndman. 2012. Quantifying uncertainty in the coupling of backcast land use change and groundwater travel time models: Implications for planning and management. *Applied Geography* 34:356-370. (LU)
77. *Villanueva-Rivera, L.J., and B.C. Pijanowski. 2012. Pumilio: A web-based management system for ecological recordings. *Bulletin of the Ecological Society of America* 93: 71-81. (DS)

76. Pijanowski, B.C., and A. Farina. 2011. Introduction to the special issue on soundscape ecology. *Landscape Ecology* 26:1209-1211. (SE)
75. Pijanowski, B.C., Farina, A., Gage S.H., Dumyahn S.L.*, and Krause B. 2011. What is soundscape ecology? *Landscape Ecology* 26:1213-1232. (SE)
74. *Villanueva-Rivera L., B.C. Pijanowski, J. Doucette^c, and B. Pekin**. 2011. A primer of acoustic analysis for landscape ecologists. *Landscape Ecology* 26:1233-1246. (SE)
73. *Dumyahn, S.L., and B. C. Pijanowski. 2011. Beyond noise mitigation: managing soundscapes as common pool resources. *Landscape Ecology* 26:1311-1326. (SE)
72. *Dumyahn, S.L., and B.C. Pijanowski. 2011. Soundscape conservation. *Landscape Ecology*. 26:1327-1344. (SE)
71. Pijanowski, B., L.J. Villanueva-Rivera*, S.L. Dumyahn*, A. Farina, B. Krause, B. Napoletano*, S. Gage and N. Pieretti. 2011. Soundscape ecology: The science of sound in landscapes. *BioScience* 61(3):203-216. (SE)
70. Pijanowski, B., N. Moore, D. Mauree* and D. Niyogi. 2011. Evaluating error propagation in coupled land-atmosphere models. *Earth Interactions*. 15:1-15. (LU)
69. Moore, N., G. Alargaswamy, B. Pijanowski, P. Thornton, B. Lofgren, J. Olson, J. Andresen, P. Yanda, and J. Qi. 2011. East African food security as influenced by future climate change and land use change at local to regional scales. *Climatic Change* 110(3):823-844. (LU)
68. Pijanowski, B., and K. Robinson*. 2011. Rates and patterns of land use cover/change in the Upper Great Lakes States, USA: A framework for spatial-temporal analysis. *Landscape and Urban Planning*. 102(2):102-116. (LU)
67. *Tayyebi. A., B. C. Pijanowski and M. Delavar. 2011. An urban growth boundary model for the Tehran, Iran Metropolitan Area. *Landscape and Urban Planning*. 100(1-2):35-44. (LU)
66. **Ray, D., J. Duckles* and B. C. Pijanowski. 2011. The impact of future land use scenarios on runoff volumes in the Muskegon River Watershed. *Environmental Management* 46(3):351-366. (LU)
65. McLean, C.E., D.T. Long and B.C. Pijanowski. 2011. Assessing environmental response and recovery of a Great Lakes watershed using a multi-proxy paleolimnological approach. *PAGES* 19(2):58-60. (LU)
64. Wiley, M., D. Hyndman, B.C. Pijanowski, A. Kendall, C. Riseng, E. Rutherford, S. Cheng, M. Carlson, J. Tyler, R. Stevenson, P. Steen, P. Richards, P. Seelbach, and J. Koches. 2010. A Multi-modeling approach to evaluate impacts of global change on river ecosystems. *Hydrobiologia* 657:243-262. (LU)
63. *Washington-Ottombre, C., B.C. Pijanowski, D. Campbell, J. Olson, J. Kinyamario, E. Irandu, J. Nganga, and P. Gicheru. 2010. Using a role-playing game to inform the development of land-use models for the study of a complex socio-ecological system. *Agricultural Systems* 103(3):117-126. (LU)
62. *Davis, A., B.C. Pijanowski, K. Robinson** and P. Kidwell. 2010. Estimating parking lot footprints in the Upper Great Lakes region of the USA. *Landscape and Urban Planning* 96:68-77. (LU)
61. Pijanowski, B.C., L. Iverson, C. Drew, H. Bulley, J. Rhemtulla, M. Wimberly, A. Bartsch and J. Peng. 2010. Addressing the interplay of poverty and the ecology of landscapes: A grand challenge topic for landscape ecologists? *Landscape Ecology* 25:5-16. (Faculty of 1000 recognized) (LU)
60. Dunning, J.B., A. DeWoody, B. Pijanowski, M. Sepulveda, R. Swihart, H. Weeks, R. Williams and P. Zollner. 2010. Improving wildlife education: fourteen years of change at Purdue University. *The Wildlife Professional*. 4 (online) (LU)

59. Mishra, V., K. Cherkauer, D. Niyogi, L. Ming, B. Pijanowski, D. Ray** and L. Bowling. 2010. Regional scale assessment of land use/land cover and climatic changes on surface hydrologic processes. *International Journal of Climatology* 30:2025-2044. (LU)
58. *Davis, A., B. Pijanowski and K. Robinson. 2010. Environmental and economic costs of sprawling parking lots in the United States. *Land Use Policy* 27(2):255-261. (LU)
57. **Ray, D. and B. Pijanowski. 2010. A backcast land use change model to generate past land use maps: applications and validation in the Muskegon River Watershed of Michigan, USA. *Journal of Land Use Science* 5:1-29. (LU)
56. Yang, G., L. Bowling, K. Cherkauer, and B. Pijanowski. 2010. Hydrologic response of watersheds to urbanization in the White River basin, Indiana. *Journal of Hydrometeorology*. 11:122-138. (LU)
55. Moore, N., N. Torbick, B. Lofgren, J. Wang, B. Pijanowski, J. Andresen, D. Kim, and J. Olson. 2010. Adapting MODIS-derived LAI and fractional cover into the Regional Atmospheric Modeling System (RAMS) in East Africa. *International Journal of Climatology*. 30(3):1954-1969. (LU)
54. Pijanowski, B., Tayyebi, A.*, and M. Delavar. 2009. A novel approach for urban growth boundary simulation. *International Journal of Environmental Research*. 10:493-502. (LU)
53. *Tayyebi, A., Delavar, M. R., Pijanowski, B. C., Yazdanpanah, M.J.. 2009. Accuracy Assessment in Urban Expansion Model. In *Spatial Data Quality, From Process to Decisions*, Edited by R. Devillers and H. Goodchild, Taylor and Francis, CRC Press, Canada, pp. 107-115. (LU)
52. *Tayyebi, A., Delavar, M. R., Pijanowski, B. C., Yazdanpanah, M. J. 2009. Spatial variability of errors in Urban Expansion Model: Implications for error propagation In *Spatial Data Quality, From Process to Decisions*, Edited by R. Devillers and H. Goodchild, Taylor and Francis, CRC Press, Canada, pp. 134-135. (LU)
51. *Tayyebi, A., Delavar, M. R., Pijanowski, B. C., Yazdanpanah, M. J., Saeedi, S. and Tayyebi, A. H. 2010. A Spatial Logistic Regression Model for Simulating Land Use Patterns, A Case Study of the Shiraz Metropolitan Area of Iran. In *Advances in Earth Observation of Global Change*, Edited by Emilio Chuvieco, Jonathan Li and Xiaojun Yang. Springer Press. (LU)
50. *Tayyebi, A., M. Delavar, M. Yazdanpanah, B. Pijanowski, S. Saeedi and D. Tayyebi. 2009. A spatial logistic regression model for simulating land use patterns: A case study of the Shiraz metropolitan area of Iran. In *Advances in Earth Observations of Global Change*, Emilio Chuvieco, Jonathan Li and Xiaojun Yang, eds. Springer-Verlag. (LU)
49. Pontius, R. Jr., W. Boersma, J. Castella, K. Clarke, T. Nijs, C. Dietzel, Z. Duan, E. Fotsing, N. Goldstein, K. Kok, E. Koomen, C. Lippitt, W. McConnell, B. Pijanowski, S. Pithadia, A. Sood, S. Sweeney, T. Trung, and P. Verburg. 2008. Comparing the input, output, and validation maps for several models of land change. *Annals of Regional Science*. 42:11-37. (LU)
48. Olson, J. M., G. Alargaswamy, J. Andresen, D. Campbell, A. Davis*, J. Ge, M. Huebner, B. Lofgren, D. Lusch, N. Moore, B. Pijanowski, J. Qi, P. Thornton, N. Torbick, J. Wang. 2008. Integrating diverse methods to understand climate-land interactions in East Africa. *Geoforum* 39: 898-911. (LU)
47. Lang, R., G. Shao, B. Pijanowski and R. Farnsworth. 2008. An automated labeling approach for optimizing unsupervised classification of remotely sensed imagery. *Computers and Geosciences*. 34 (11). 1877-1885. (LU)
46. *Alexandridis, K., B. Pijanowski and Z. Lei. 2007. Simulating sequential decision making processes of base action actions in a Multi Agent Based Economic Landscape Model. *Environment and Planning B: Planning and Design*, (34) 223-244. (LU)
45. Pijanowski, B., D. Ray**, A. Kendall, J. Duckles* and D. Hyndman. 2007. Using backcast land use change and groundwater travel-time models to generate land use legacy maps for watershed management. *Ecology and Society* 12(2):25 (online). (LU)

44. Fitzpatrick, M., D. Long and B. Pijanowski. 2007. Biogeochemical fingerprints of land use in a regional watershed. *Applied Biogeochemistry* 22:1825-1840. (LU)
43. Wiley, M., B. Pijanowski, R. J. Stevenson, P. Seelbach, P. Richards, C. Riseng, D. Hyndman and J. Koches. 2007. Integrated Modeling of the Muskegon River: Tools for Ecological Risk Assessment in a Great Lakes Watershed. In: W. Ji, editor, *Wetland and Water Resource Modeling and Assessment: A Watershed Perspective*, CRC Press. (LU)
42. Uzaarski, D., D. T. Long, P. Bonnel, J. Koches, T. Burton, M. Wiley, R.J. Stevenson, C. Riseng, B. Pijanowski, V. Loughneed, A. Steiman, D. Hyndman, A. Hough, S. Gage and J. Qi. 2007. Watershed science: Essential, complex, multidisciplinary and collaborative. In *Wetland and Water Resource Modeling and Assessment: A Watershed Perspective*, pp. 231-245. CRC Press. (LU)
41. Pijanowski, B., K. Alexandridis* and D. Mueller. 2006. Modeling urbanization patterns in two diverse regions of the world. *Journal of Land Use Science*. (1):83-108. (LU)
40. Pijanowski, B. C., S. Pithadia, B. A. Shellito*, and K. Alexandridis*. 2005. Calibrating a neural network-based urban change model for two metropolitan areas of the Upper Midwest of the United States. *International Journal of Geographical Information Science*, 19: 197-215. (LU)
39. Tang, Z., B.A. Engel, K. J. Lim, B. C. Pijanowski, and J. Harbor. 2005. Minimizing the impact of urbanization on long-term runoff. *Journal of the American Water Resources Association*. 41: 1347-1359. (LU)
38. Tang, Z., B. A. Engel, B.C. Pijanowski, and K. J. Lim. 2005. Forecasting land use change and its environmental impact at a watershed scale. *Journal of Environmental Management*. 76:35-45. (LU)
37. Lei, Z., B.C. Pijanowski, and K. T. Alexandridis*. 2005. Distributed modeling architecture of a Multi Agent-based Behavioral Economic Landscape (MABEL) Model. *Simulation: Transactions of the Society for Modeling & Simulation International*, 81(7): 503-515. (LU)
36. Wayland, K., D. Long, D. Hyndman, B. Pijanowski, S. Woodhams and S. Haack. 2003. Identifying relationships between baseflow geochemistry and land use with synoptic sampling and R-Mode factor analysis. *Journal of Environmental Quality* 32: 180-190. (LU)
35. Shellito, B., and B. Pijanowski. 2003. Using neural nets to model the spatial distribution of seasonal homes. *Cartography and Geographic Information Systems* 30 (3):281-290. (LU)
34. Pijanowski, B.C., and S.H. Gage. 2003. GIS in action – GIS fights the gypsy moth. In *Getting Started with Geographic Information Systems*, K. C. Clark, ed. Prentice Hall Inc. (LU)
33. Pijanowski, B.C., D. G. Brown, G. Manik and B. Shellito*. 2002. Using neural nets and GIS to forecast land use changes: A land transformation model. *Computers, Environment and Urban Systems* 26: 553-575. (LU)
32. Wayland, K., D. Long, D. Hyndman, B. Pijanowski, and S. Haack. 2002. Modeling the impact of historical land uses on surface water quality using ground water flow and solute transport models. *Lakes and Reservoirs* 7: 189-199. (LU)
31. Pijanowski, B.C., B. Shellito* and S. Pithadia*. 2002. Using artificial neural networks, geographic information systems and remote sensing to model urban sprawl in coastal watersheds along eastern Lake Michigan. *Lakes and Reservoirs* 7: 271-285. (LU)
30. Skole, D., S. Batzli, S. Gage, B. Pijanowski, W. Chomentowski and W. Rustem. 2002. Forecast Michigan: Tracking Change for Land Use Planning and Policy Making. *Informing the Debate: Urban Housing and Land Development*. Institute for Public Policy and Social Research, Michigan State University, East Lansing. pp. 30. (LU)
29. Brown, D., B. Pijanowski and J. Duh. 2001. Modeling the relationships between land use and land cover on private lands in the Upper Midwest. *Journal of Environmental Management*. 59:247-263. (LU)

28. Boutt, D.F., D.W. Hyndman, B.C. Pijanowski, and D.T. Long. 2001. Identifying potential land use-derived solute sources to stream baseflow using ground water models and GIS. *Ground Water* 39 (1): 24-34. (LU)
27. Haack, R., T. Petrice, S. Haack, D. Hyndman, D. Long and B. Pijanowski. 2000. Aquatic insects as bioindicators of land use change in the Grand Traverse Bay area of Michigan. *Newsletter of the Michigan Entomological Society of Michigan*. 45(3) 13. (IB)
26. Pijanowski, B.C., S.H. Gage, and D.T. Long. 2000. A Land Transformation Model: Integrating Policy, Socioeconomics and Environmental Drivers using a Geographic Information System; In *Landscape Ecology: A Top Down Approach*, Larry Harris and James Sanderson eds. (LU)
25. Sharov, A., B.C. Pijanowski, A. Liebhold and S.H. Gage. 1999. What affected the rate of gypsy moth (Lepidoptera: Lymantriidae) spread in Michigan: Winter temperature or forest susceptibility? *Agricultural and Forest Entomology* 1:37-45. (IB)
24. Yang, D., B. C. Pijanowski and S. Gage. 1998. Gypsy moth (Lepidoptera: Lymantriidae) population dynamics in Michigan analyzed using geographic information systems. *Environmental Entomology* 27:842-843. (IB)
23. Cheng, B.H.C., Bourdeau, R., and B. C. Pijanowski. 1996. A regional information system for environmental data analysis. *Photogrammetric Engineering and Remote Sensing*. 62: 855-861. (DS)
22. Pijanowski, B.C., S.H. Gage and D. H. McCullough. 1996. Policy issues as they relate to the impacts of an introduced forest pest, the gypsy moth. In *Policy Choices: Framing the Debate for Michigan's Future*. Eds. P. Grummon and B. Mullan. Michigan State University Press. (IB)
21. Pijanowski, B. C. 1992. A revision of Lack's brood reduction hypothesis using a game theory approach. *American Naturalist* 139:1270-1292.
20. Lederle, P., B.C. Pijanowski and D. E. Beaver. 1984. Predation on tree swallows by the least chipmunk. *Jack-Pine Warbler*. 84: 21.

Refereed Conference Proceedings

19. Long, D. , M. Parson, B. Pijanowski, D. Ray, C. Yansa, S. Yohn, C. McLean and R. Vannier. 2009. Assessing ecosystem response to land use change using sediment chemical chronologies and a backcast model. Conference on Environmental Science and Technologies, Crete, Greece, September 3-5, 2009. (LU)
18. Tayyebi, A. and B. Pijanowski. 2009. Comparing a logistic and neural network model of urban change of Tehran, Iran. Proceedings of the Spatial Data Accuracy Conference, Quebec, Canada, June 3-6, 2009. (LU)
17. Pijanowski, B.C. 2008. Sustainability, climate change and uncertainty. Proceedings of the Accuracy 2008 Conference, Shanghai, China, June 23-28, 2008. (LU)
16. Pijanowski, B.C., J. M. Olson, C. Washington-Ottombre, D. J. Campbell, A. Y. Davis and K. Alexandridis. 2007. Pluralistic modelling approaches to simulating climate-land change interactions. MODSIM 2007 Proceedings. Christchurch, New Zealand. December 4-7, 2007. (LU)
15. Pijanowski, B.C. 2006. Afforestation patterns in the upper Midwest, USA. Proceedings of the IUFRO Landscape Ecology Conference, Sept. 26-29, 2006. Locorotondo, Bari, Italy. (LU)
14. Alexandridis, K. and B.C. Pijanowski. 2005. Modular Bayesian inference and learning of decision networks as stand-alone mechanisms of the MABEL model: Implications for visualization, comprehension, and policy-making. Paper presented at the Agent2005 Conference on: Generative Social Processes, Models and Mechanisms. Argonne National Laboratory and The University of Chicago, October 13-15, 2005. (LU)
13. Alexandridis, K., B. Pijanowski and Z. Lei. 2004. The use of robust and efficient methodologies in agent-based modeling: Case studies using repeated measures and behavioral components in the MABEL Simulation Model. Agent2004 Conference, Chicago, Illinois. October 5, 2004. (LU)

12. Wiley, M. J., B. C. Pijanowski, P. Richards, C. Riseng, D. Hyndman, P. Seelbach and R. Stevenson. 2004. Combining valley segment classification with neural net modeling of landscape change: A new approach to integrated risk assessment for river ecosystems. Proceedings of WEF 2004 Specialty Conference Series: Watershed 2004, Dearborn Michigan. Water Environment Federation. (LU)
11. *Alexandridis, K., B. Pijanowski, and Z. Lei. 2003. Simulating land-use entelechy using the Multi-Agent-based Behavioral-Environmental Landscape (MABEL) model. 2003. Agent2003 Conference. Chicago, Illinois. (LU)
10. *Alexandridis, K., B. Pijanowski, and Z. Lei. 2003. Simulating Land-use Entelechy Using the Multi-agent-based Environmental Landscape (MABEL) Model. 2003. K. Alexandridis, B. Pijanowski, and Z. Lei. October 3, 2003. Agent2003 Conference. Chicago, Illinois. (LU)
9. Pijanowski, B. and K. Alexandridis. 2002. A Multi Agent Based Environmental Landscape (MABEL) Model: A Distributed Artificial Intelligence Simulation Model. Proceedings of the Second World Congress of Environmental and Resources Economics. Monterrey, California, June 12, 2002. (LU)
8. Pijanowski, B., M. Bauer, K. Sawalia and B. Shellito*. 2001. Using remote sensing to parameterize the Land Transformation Model for the Twin Cities. Proceedings of the ASPRS Meetings, St. Louis, Mo. April 2001 (LU)
7. Pijanowski, B.C., D. Hyndman, and B. Shellito*. 2001. The Application of The Land Transformation, Groundwater Flow and Solute Transport Models For Michigan's Grand Traverse Bay Watershed. American Planning Association Annual Meeting, New Orleans, Louisiana, March 13, 2001. (LU)
6. ~Wayland, K, D. Long, D. Hyndman, B. Pijanowski and S. Haack. 2000. Biogeochemical Fingerprinting of a Rapidly Urbanizing Watershed. National Nonpoint Source Monitoring Workshop, August, 2000. (LU)
5. Pijanowski, B.C., D.T. Long, S.H. Gage and W.E. Cooper. 1997. A Land Transformation Model: Conceptual Elements, Spatial Object Class Hierarchies, GIS Command Syntax and an Application to Michigan's Saginaw Bay Watershed. Land Use Modeling Workshop. Sioux Falls, South Dakota, June 3-5, 1997. Sponsored by NCGIA and USGS. (LU)
4. Pijanowski, B.C., T. Machemer, S.H. Gage, D. T. Long, W. E. Cooper and T. Edens. 1996. The GIS syntax of a spatial-temporal land use change model. In Proceedings of the Third Conference on GIS and Environmental Modeling. GIS World Publishers. (LU)
3. ~Bourdeau, R., B. H.C. Cheng and B. Pijanowski. 1993. A decision support system for regional environmental analysis: in 25th International Symposium on Remote Sensing and Global Environmental Change: Tools for Sustainable Development, April 4-8, Graz, Austria. (LU)
2. Gage, S.H., and B. Pijanowski. 1993. Application of remote sensing and analysis of digital landscape maps to assess ecological risk from pest populations: in 25th International Symposium on Remote Sensing and Global Environmental Change: Tools for Sustainable Development, April 4-8, Graz, Austria. (LU)
1. Pijanowski, B., C. He, and B. H.C. Cheng. 1992. Integration of human and natural science data for planning and management within a regional framework: The Saginaw Bay Watershed Project: in Proceedings of the Building A Global Environmental Change Information Cooperative: First CIESIN Users Workshop, November, 1992. (LU)

GRANTS AND AWARDS

In Review

- 2016-2020 Gitau, M., Merwade, V., Z. Ma, S. MacMillian and B. Pijanowski. Integrating NEX and SMAP to characterize basin-wide long-term hydrologic and water quality responses for enhanced decision making and management. *NASA Applied Water Sciences Resources Program*. \$1,500,000.

- 2016-2020 Engel, B., McMillian S., Pijanowski, B., S Ma and F. Jaber. INFEWS/T1: REWARDS for urban food: recovery of energy and Water Resources for Decision Support in Urban Food Systems. *National Science Foundation* \$2,990,086.
- 2016-2020 Fei, S., B. Pijanowski, J. Dukes (as Purdue co PIs). Modeling and analysis of the complexity of plant invasions at multiple spatial-temporal scales. Macrosystems Biology Program, *National Science Foundation*. \$1,889,000.
- 2016-2020 Conlin, D., B. Pijanowski and M. Halvorsen. Using soundscape recordings and analysis to create a new monitoring program for the nation's aquatic National Parks. *Bureau of Ocean Energy Management*. \$1,200,000.
- Funded**
- 2016-2017 Rutherford, E., B. Miller, B. Pijanowski and D. Hyndman. Research and engagement support for the TippingPointPlanner.org tool. *NOAA-GLER-CILER*. \$427,000.
- 2016-2017 Salazar, K. and B.C. Pijanowski. Nutrient loading and soundscape tools for tippingpointplanner.org. *INDR CZ Program*. \$70,000.
- 2015-2016 Pijanowski, B.C., Developing a proof of concept for assessment of coral reef health using soundscape recordings and signal processing techniques. \$42,000. *National Park Service*.
- 2013-2017 Pijanowski B.C., B. Lisle, and D. Shepardson. Full Implementation: Global Soundscapes! Big Data, Big Screens, Open Ears. *National Science Foundation. Advancing Informal STEM Learning Program*. \$1,999,998.
- 2013-2016 Pijanowski, B.C., D. Ebert, D. Shepardson, and R. Nowack. Soundscape ecology as an integrating theme for big data analysis, sustainability science and educating youth. \$484,000. *Executive Vice President for Research and Engagement, Purdue University Incentive Grants Program*.
- 2013-2018 Fei, S., B.C. Pijanowski, K. Gibson, M. Saunders and L. Lee.. Graduate training in land use and landscape analysis for forest and agricultural sustainability and resilience. *USDA NNF*. \$211,500.
- 2012-2016 Fei, S., and B.C. Pijanowski. Predicting regional invasion dynamic processes (PRIDE). *National Science Foundation. Macrosystems Biology Program*. \$771,786.
- 2011-2013 Pijanowski, B.C. Backcasting land use change for the Ohio River Basin. \$50,000.
- 2011-2016 Pijanowski, B.C., and C. Guastavano. A global sustainable soundscape network. *National Science Foundation. Coupled Natural-Human Dynamic Systems*. \$499,990.
- 2010-2014 Pijanowski, B.C., T., Hook, R. Goforth, K. Cherkauer, and K. Troy. Environmental and Ecological Engineering PhD Program. *United States Department of Education GAANN Program*. \$569,000.
- 2010-2014 Pijanowski, B.C., Assessment of land use planning needs for online decision support for water quality in the Great Lakes Basin. *Illinois-Indiana Sea Grant*. \$107,000.
- 2010-2013 Rutherford, E., B. C. Pijanowski, B. Miller, and M. Wiley. Quantifying tipping points of watershed change for purpose of land use planning. *Environmental Protection Agency. Great Lakes Restoration Initiative*. \$500,000.
- 2009-2014 Wise, D., L. Heneghan, B.C. Pijanowski, N. Tuchman, and L. Westphal. Connecting the Social and Ecological Sciences with Planners, Managers, and the Public” Building a broad foundation for the Chicago Region ULTRA. *National Science Foundation*. \$299,920.
- 2009-2014 Pijanowski, B.C., A national Land Transformation Model for the USGS National Fish Habitat Assessment Project. *United States Geological Survey*. \$445,000.
- 2008-2010 Pijanowski, B.C., Simulating Social and Land-use Adaptations to Climate Change on Mount Kenya. *National Science Foundation: Doctoral Dissertation Research Improvement*. \$11,500.
- 2007-2012 Ghosh, J., M. Crawford and B.C. Pijanowski. Advanced learning and integrative knowledge transfer approaches to remote sensing and forecast modeling for understanding land use change. *National Science Foundation: CISE III-CXT*. \$890,000.
- 2007-2011 Bowling, L., K. Cherkauer, B.C. Pijanowski and D. Niyogi. Multi-sensor, multi-scale assessment of urban impacts in the Great Lakes Region. *NASA Land Use-Hydrology Program*. \$600,000.
- 2006-2013 Pijanowski, B.C., and 11 others. Partnering for Land Use Sustainability (PLUS). \$342,000. Department of Forestry and Natural Resources, Purdue University.

- 2003-2009 Campbell, D., B.C. Pijanowski, J. Andresen, D. Lush and J. Olson. An integrated assessment of regional land-climate interactions. *National Science Foundation*. Coupled Natural-Human Dynamic Systems. \$1,750,000.
- 2003-2008 Hyndman, D.W. and B.C. Pijanowski. Quantifying the impact of land use and climate change on groundwater/surface water interactions in regional Great Lakes watersheds. *National Science Foundation*. Water Cycle Program. \$455,000.
- 2002-2008 Wiley, M., B.C. Pijanowski, J. Koches. A Collaborative Approach to Understanding the Dynamics of the Muskegon Watershed: A Comprehensive Model, Risk Assessment and Tools for Use in Management. *Great Lakes Fishery Trust*. \$1,220,000.
- 2002-2008 Stevenson, R.J., M. Wiley, S.H. Gage, B.C. Pijanowski. Ecological Risk Assessment of the Muskegon River Watershed. *Great Lakes Fishery Trust*. \$1,580,000.
- 2002-2008 Stevenson, R.J., M. Wiley, J. Qi, B. Pijanowski and D. Long, Examining the dynamics of the Lower River Muskegon River Watershed. *Great Lakes Fishery Trust*. \$1,520,000.
- 2002-2006 Seelbach, P., B.C. Pijanowski, R.J. Stevenson and M.J. Wiley. Developing relations among human activities, stressors, and stream ecosystem responses and linkages in integrated regional, multi-stressor models. *Environmental Protection Agency STAR Program*. \$838,000.
- 2008 Pijanowski, B.C., Modeling risks of grassland conversion from agriculture. *The Nature Conservancy*. \$25,000.
- 2002-2006 Stevenson, R.J., M.J. Wiley, L. Zhang, and B.C. Pijanowski. Ecological classification of rivers for environmental assessment: demonstration, validation, and application to regional risk assessment across Illinois, Michigan, and Wisconsin. *Environmental Protection Agency STAR Program*. \$748,000.
- 2004 Gage, S.H. and B. Pijanowski. Tipping points in land use change. *Kellogg Foundation*. \$65,000.
- 2001-2002 Campbell, D., J. Olson, D. Lusch, B. Pijanowski and J. Andresen. Climate change and land use change processes in East Africa. *National Science Foundation*. Biocomplexity of Coupled Natural and Human Systems. \$64,000.
- 2000-2001 Gage, S., D. Skole and B. Pijanowski. Developing a Tool for Forecasting Urban Change in Michigan: The Potential Impacts of Urban Sprawl on Land Based Industries in Michigan. *Kellogg and Frey Foundations*. \$124,000.
- 1999-2002 Skole, D., R. Groop, S. Gage, and B. Pijanowski. A Regional Environmental Science Applications Center for the Upper Great Lakes States (with 10 others at the University of Minnesota and University of Wisconsin). *NASA Regional Environmental Science and Application Centers*. \$1,500,000.
- 1997-2001 Skole, D., and B. Pijanowski. Assessing Primary and Secondary Impacts from the MDOT Proposed US-31 Bypass between Holland and Grand Haven. *Michigan Department of Transportation*. \$262,000.
- 1997-2001 Brown, D., M. Viseavich and B. Pijanowski. Hierarchical Investigation of Socioeconomic Drivers of Decadal Scale Land-Cover Changes in the Upper Midwest. *NASA Land use/cover change Program*. \$400,000.
- 1998-2001 Pijanowski, B., D.T. Long, D.W. Hyndman and S. Haack. Modeling the Influence of Land Use Change on Biogeochemical Indicators and Great Lakes Loadings for Watershed Management. *Michigan Great Lakes Protection Fund*. \$510,000.
- 1994-1996 Gage, S.H., B. Pijanowski, W. Cooper and D. Long. Developing a pilot Land Transformation Model for the Saginaw Bay Watershed. *Environmental Protection Agency*. \$420,000.
- 1992-1995 Gage, S.H., B. Pijanowski, and J. Bartholic. Assessment of Current Data, Decision Support Tools and Geographic Information Resources in the USDA for use in Global Change Research. *USDA-ARS*. \$140,000.
- 1993-1996 Gage, S.H. and Pijanowski, B.C.. Data and Technology Support for the Slow-the-Spread of the Gypsy Moth National Pilot Project. *USDA Forest Service*. \$230,000.
- 1994-1995 Pijanowski, B.C., and S.H. Gage. Determining historical rates of spread of gypsy moth populations in Michigan. *USDA Forest Service*. \$20,000.

Grants and Awards Received by Dr. Pijanowski's Undergraduate and Graduate Students

- Cris Graupe Purdue Discovery Undergraduate Research Internship (DURI), \$1500. 2016.
- MaryAm Ghadiri AAAS Emerging Leaders in Science and Society Fellowship, 2016-2017. \$2500.

Benjamin Gottesman Purdue PCCRC Research Travel Award 2015-2016. \$2,000.
 Kimberly Robinson NOAA-CILER Fellowship, 2010-2011, \$23,000.
 Sarah Dumyahnn EPA STAR PhD Fellowship, 2010-2012, \$120,000.
 Luis Villanueva-Rivera Kellogg Biological Station - Academic Award to Attend Mathematics for Ecologists Workshop. \$1200. June 2010 (3 wk course).
 Luis Villanueva-Rivera OTS Travel Award to Attend Sensor and Sensor Network Course at La Selva Biological Research Station. \$3000. August 2010.
 Sarah Dumyahnn Purdue Andrews Travel Grant \$1500. To conduct research at the National Park Service Natural Sounds Program Office in Ft. Collins, CO. August 2010.
 Luis Villanueva-Rivera NASA-MSU Travel Award to Attend US-IALE Conference in Athens, Georgia. \$350. April 2010.
 Kimberly Robinson NASA-MSU Travel Award to Attend the US-IALE Conference in Snowbird, UT. \$350. April 2009.
 Camille Washington-Ottombre AAG Travel Award to Attend the American Association of Geographers Conference in Las Vegas, Nevada. \$100. March 2009.
 Camille Washington-Ottombre SSRC Fellowship Award. \$7,000. June 2008-September 2009.
 Camille Washington-Ottombre Andrews Fellow Travel Grant. \$1000. June 2008-December 2008.
 Amelie Davis NASA-MSU Travel Award to Attend the US-IALE Conference in Madison, Wisconsin. \$350. April 2008.
 Brian Napoletano NASA-MSU Travel Award to Attend the US-IALE Conference in Tuscon, Arizona. \$350. April 2007.
 Jonah Duckles Travel Award from International Programs in Agriculture. \$1000. Travel to Moldova. 2006.
 Camille Washington-Ottombre Travel Award to Attend the 2006 Open Global Environmental Science – Earth Systems Science Partnership Conference in Beijing, China. \$1000. November 3-10, 2006.

OTHER RESEARCH CONTRIBUTIONS

Invited Keynote and Plenary Presentations (>150 research presentations)

1. Pijanowski, B.C. 2015. Soundscapes as earth's acoustic heritage and ultimate measure of everything. April 13, 2015. South Dakota State University (Keynote delivered as Holtry Distinguished Lecture)
2. Pijanowski, B.C. 2014. Lessons learned from studying soundscapes of terrestrial ecosystems. Noise in Aquatic Life, Budapest, Hungary. August 10, 2014 (Opening Plenary Lecture)
3. Pijanowski, B.C. 2013. Soundscapes as a reflection of ecological processes. Rhodes Forum: Peace, Humanity and Nature Conference, Rhodes, Greece. August 13, 2014. (Keynote)
4. Pijanowski, B.C. 2011. Technologies to support decision making in the Great Lakes basin. Environmental Protection Agency SOLEC Conference, October 21, 2011. Erie PA. (Keynote).
5. Pijanowski, B.C., 2010. Science, Society and Uncertainty: Are Scientists Truth Seekers? Meso-American Conservation Society Meetings, San Jose, Costa Rica, November 2010. (Keynote).
6. Pijanowski, B.C., 2009. Soundscape ecology: Integrating climate, land use and acoustics, Conference to Celebrate the 25th Anniversary of the International Institute for Wildlife Conservation and Management (ICOMVIS), Universidad Nacional, Costa Rica, October 12-15, 2009. (Keynote).
7. Pijanowski, B.C. Modeling sustainability and land use change. 2008. *Accuracy2008 Conference*, Shanghai, China. June 24, 2008. (Keynote)
8. Pijanowski, B. C. Urban footprints in the United States. 2007. *SMURT (Simulation and Modeling Urban Resilience and Transitions) Conference*, Melbourne, Australia. Dec 3, 2007. (Keynote)
9. Pijanowski, B. C. 2006. Land Use Modeling and Analysis: Sustainability Footprints. November 12, 2006. *American Association of Soil Science*. Indianapolis, Indiana. (Special Session Plenary).
10. Pijanowski, B. C. 2005. Land Use Change in the Great Lakes. *International Association of Great Lakes Researchers*. May 5, 2006. Windsor, Canada. (Keynote).

Membership in Professional Societies

Global Land Project, Member
 NEON, Inc., Purdue Representative (2011-2016)
 American Association for the Advancement of Science
 American Association of Geographers
 American Geophysical Union

International Association of Landscape Ecology – US Chapter
International Association of Landscape Ecology – Africa Chapter, (charter member)

Professional Appointments

Associate Editor, *Landscape Ecology* (2013-current)
Associate Editor, *Journal of Land Use Science* (2005-current; founding member)
Associate Editor, *British Journal of Environment and Climate Change* (2012-current)
National Research Council (Romania) – *University Environmental Engineering Program Assessment* (2011-2017)
National Research Council (Chile) – *National Climate Change Center Review Committee* (2012)

Significant Databases Developed

Tippecanoe Soundscape Study. Continuous passive acoustic recordings in 7 Purdue agricultural properties across a land use/cover intensity gradient designed to assess how climate change and land use affect biodiversity and soundscape diversity long-term. Data are for Mar-Dec each year starting 2008 to current. Major biome is temperate forest. Database has over 120,000 recordings.

Aldo Leopold Land and Soundscape Ethics Study. A 4 month study at Aldo Leopold's shack in 2012 to study the impact of highway noise on biodiversity at a property where conservation biology was "born". Over 23 acoustic sensors, long-term bird surveys and LIDAR data have been assembled in order to assess landscape structure, natural soundscape and noise patterns in this historical site. Major biome is temperate forest. Database has over 22,000 recordings.

Patagonia Soundscape Study. A 3 month study was conducted in early 2016 that gathered preliminary data on (1) long-term continuous acoustic recordings of glaciers; (2) bird and mammal colonies on islands in Beagle Channel of Argentina; (3) bat behavior in Tiera del Fuego National Park and (4) elevational gradients from sub Antarctic to Antarctic climate zones. Major biome is high latitude/Antarctic. Database has over 18,000 recordings.

Platte River Basin Study. Started in early 2015, we have deployed 8 automated acoustic sensors at locations where University of Nebraska has been conducting a photo time lapse study (one photo per hour for 7 years). We seek to understand how grassland dynamics are altered after prescribed burns and in areas where bison are being introduced. Database has over 30,000 recordings.

La Selva Biological Station, Costa Rica. Long-term recordings from 2008, 2011 and then for an entire year in 2015 are designed to study vertical structure of soundscape variability, the relationship between vegetation structure and soundscape complexity and the impacts of disease and climate change on amphibian populations as assess through long-term recordings.

Borneo Paleotropical Study. As part of a 3 month long study in Brunei in 2014, over 25,000 recordings were made to understand the spatial autocorrelation of soundscapes in a global biodiversity hotspot. A second study examined how soundscape varied between 300 million year old forests and forested landscapes that were clear cut 15 years ago.

Sonoran Desert Study. We deployed over 30 acoustic recorders across 6 habitat zones and locations within zones with 3 burn severities to study how ecosystems recover from wildfire. The study, in the Chiricahua National Monument and within wilderness areas, examines soundscape patterns across a 3 year period. Daily MODIS NDVI measures are being used to assess phenological trends. Database has over 200,000 recordings and over 120,000 meteorological measurements.

Wells National Estuarine Research Reserve. To understand how coastal estuaries change over time and in response to plant invasions, we deployed sensors across this research station during the summer of 2013. Database has over 41,000 recordings on land and in vernal pools.

Mongolian Steppe Study. We recorded soundscapes and grass densities in pastures of central and eastern Mongolia in 2015. A separate study was also conducted in the central mountains to determine how animal diversity was being affected by the dramatic loss of white birch forests. Database has over 15,000 hours of recordings.

Chicago Wild Sounds Study. Acoustic sensors have been going since 2014 to determine how megacity noise affects bird calling behavior across the lakeshore of downtown. Another set of recorders are placed in outlying areas of the city where prairies are being restored.

Conner Prairie Study. We are trying to determine how landscape structure of restored prairies affects bird calling patterns during the breeding season. Outcomes of the study are being incorporated into informal learning displays at this outdoor learning center.

Dry Tortugas National Park. We have partnered with the National Park Service to collect over 2,000 hours of recordings from two locations in the coral reef system.

TEACHING AND MENTORING

Nearly all of my courses are taught with an associated computer lab for hands-on training of high job demand skillsets using an inquiry-based approach. Graduate study involves training to work in interdisciplinary teams composed of ecologists, social scientists, engineers and musicians. Learning about effective science communication to the public, big data analysis and the use of high-end field equipment are the hallmarks of training. Postdocs and graduate students learn to mentor by working closely with undergraduate students.

COURSES TAUGHT AT PURDUE

Landscape Ecology and GIS. Graduate course offered 4 times since 2004.
 Biogeography and GIS. Graduate course offered 2 times since 2006.
 Sustainable Land Use Systems I. Taught in 2008 as a graduate seminar.
 Sustainable Land Use Systems II. Taught in 2009 as a graduate seminar.
 Spatial Ecology and GIS. Taught annually since 2008.
 Advanced Spatial Ecology and GIS. Taught annually since 2009.
 Teaching of Science and Engineering at the Undergraduate Level. Graduate seminar offered in 2012.
 Soundscape Ecology. Taught as a graduate seminar course in 2013.

STUDENT ADVISING, MENTORING AND VISITING SCIENTISTS

Current Graduate Students

1. Dante Francomano. (2015-). Soundscape dynamics of colonial birds and mammals in Tiera del Fuego, Argentina. PhD student, Department of Forestry and Natural Resources and Ecological Sciences and Engineering Program.
2. Javier Lenzi. (2015-). PhD student, Department of Forestry and Natural Resources and Ecological Sciences and Engineering Program. The impact of plastic waste on shorebird reproductive success.
3. Benjamin Gottesman. PhD student, Department of Forestry and Natural Resources and Ecological Sciences and Engineering Program. (2014-). Use of soundscape ecological approach to understand restored prairie grasslands in the Central United States.
4. Kristen Bellisario. PhD student, Department of Forestry and Natural Resources. Computational musicological approaches to soundscape analysis (2014-)
5. Matthew Harris. MS Student. Department of Forestry and Natural Resources and Ecological Sciences and Engineering Program. (2014-). Citizen science of soundscape recordings and perceptions.
6. MaryAm Ghadiri Khanaposhtani, PhD student, Department of Forestry and Natural Resources and Ecological Sciences and Engineering Program. Soundscape education and informal STEM learning. (2013-)

Former Graduate Students

Student	Degree	Professional Status	Research Topic
Luis Villanueva-Rivera	PhD 2015	Postdoc, Yale University	Soundscape Informatics
Sarah Dumyahn	Ph.D 2013	Assistant Professor, Miami University	Soundscape Conservation
Kimberly Robinson	PhD 2013	Indiana National Guard	Land Use Planning and Decision Support Systems Use and Useability
NahNah Kim	MS 2013	Law School, Washington University-St. Louis	Tipping Points in Land-Water Systems
Amin Tayyebi	PhD 2012	Postdoc, University of California-Riverside	Land Change Modeling with Data Mining Tools
James Plourde	MS 2012	John Deere	Biofuels and Land Use Change in Agricultural Landscapes

Amelie Davis	PhD 2011	Assistant Professor, Environmental Sciences, Miami University	Environmental and Economic Consequences of Parking Lots
Brian Napoletano	PhD 2011	Assistant Professor Universidad Nacional Autónoma de México	Land Use and Bird Diversity at Continental Scales
Camille Washington- Ottobre	PhD 2010	Associate Professor, Smith College	Resilience of East Africa Farming Communities
Jonah Duckles	MS 2008	CEO of the Software Carpentry Foundation	Modeling of Urbanization Impacts on Watersheds of Michigan
Konstantinos Alexandridis	PhD 2006	Associate Professor and Director of Environmental Studies Program, University of Virgin Islands	Agent-based Modeling of Land Use Systems in the United States and East Africa
Bradley Shellito	PhD 2001	Professor, Geography, Youngstown State University	Forecasting Urbanization and Seasonal Home Development in the Upper Great Lake States

Graduate Student Committees

1. Gabriel Nunez-Mir (PhD student started Fall 2013, Songlin Fei, FNR)
2. Teresa Clark (MS student, started in Fall 2013 and degree conferred Fall 2015, Songlin Fei, FNR)
3. Holly Mutascio (MS student, started in Fall 2014, Pat Zollner, FNR)
4. Linyuan Shang (PhD student started Fall 2012, Qianlai Zhuang, Earth, Atmosphere and Planetary Sciences)
5. Dena Fiacchino (PhD, did not complete, Bruce Bordelon, Horticulture and Landscape)
6. Xiaoxiao Li (PhD, defense 2012, Guofan Zhao, FNR)
7. Jeryang Park (PhD, conferred Fall 2012, Suresh Rao, Agronomy and Civil Engineering)
8. Ajit Karna (PhD student started Fall 2012, Comparative Pathobiology)
9. Charlotte Castillo (PhD conferred Fall 2011, Kevin Gurney, Agronomy and Earth and Atmospheric Sciences)
10. Mihoon Jeong (PhD conferred Fall 2011, Bernie Engel, Agricultural and Biological Engineering)
11. Guoxiang Yang (PhD conferred Fall 2010, Laura Bowling, Agronomy)
12. James Beasley (PhD, conferred Spring 2010, Gene Rhodes, Forestry and Natural Resources)
13. Shulin Yang (PhD, conferred 2010, Jeff Holland, Entomology)
14. Carol Rizkalla (PhD, conferred 2009, Rob Swihart, Forestry and Natural Resources)
15. Bogdan Chivoiu (PhD expected 2013, Guofan Shao, Forestry and Natural Resources)
16. Diane Packett (MS, conferred 2007, Barny Dunning, Forestry and Natural Resources)
17. Dibyajoyi Tripahty (PhD, conferred 2007, Jon Harbor, Earth and Atmospheric Sciences)
18. Alison Goss (PhD, conferred 2006, Jon Harbor, Earth and Atmospheric Science)
19. Ruilli Lang (MS, conferred 2006, Guofan Shao, Forestry and Natural Resources)
20. Marie Tripoli (MS, conferred 2004, Bernie Engel, Agricultural and Biological Engineering)
21. Zhenxu Tang (PhD, conferred 2005, Bernie Engel, Agricultural and Biological Engineering)
22. Dan Mica (MS, conferred 2005, Kerry Rabenold, Biological Sciences)
23. Karen Wayland (PhD, conferred 2001, David Long, Geological Sciences)
24. David Boutt (MS, conferred 1999, David Hyndman, Geological Sciences)
25. M Fitzpatrick (PHD, conferred 2001, David Long, Geological Sciences)
26. Anthony Kendall (MS, conferred 2000, David Hyndman, Geological Sciences)
27. Jeffrey Duh (PhD, conferred 1998, Dan Brown, Geography)
28. Robert Bourdeau (PhD, not completed, 1997, Betty Cheng, Computer Science)

Visiting and Postdoctoral Scientists

1. Dr. Amandine Gasc. PhD in Bioacoustics from Paris Natural History Museum (Jan 2014-current).

2. Dr. Kaisheng Long. PhD in Geography and Hydrology from Chinese Academy of Science. Currently Associate Professor at Nanjing Sciences and Technology (Jan 2016-Dec 2016)
3. Dr. Lingzhi Wang. PhD in Geographic Information Sciences and currently an Assistant Professor, Chinese Academy of Sciences, Geography (Jan 2016-Dec 2017).
4. Dr. Wie Song, PhD in Geography, Institute of Geography, Chinese Academy of Sciences (June 2012-December 2012)
5. Dr. Burak Pekin, PhD in Forest Resource Sciences, University of Western Australia (Sept 2010-August 20, 2012)
6. Dr. Buddhika Madurapperuma, PhD in Remote Sensing, University of North Dakota (Aug 2013-July 2015)
7. Dr. Jinha Jung, PhD. In Remote Sensing, Purdue University (2011-current)
8. Dr. Andryi Zhalnin, PhD in Forest Ecosystem Modeling and GIS, Purdue University (January 2010-December 2011)
9. Dr. Deepak Ray, PhD in Regional Climate Change, University of Alabama-Huntsville (August 2005-August 2009).
10. Mr. Desaradan Mauree, Madame Curie University, Paris, France. Error propagation in coupled land-climate models
11. Dr. Daniel Mueller, Humboldt University, Berlin, Germany. Application of land change models to the US and Albania (Spring 2005)
12. Mr. Ronaldo Sholte, Brazilian Environmental Research Organization, Use of GIS to Study Schistosomiasis (Fall 2006-Spring 2007)
13. Dr. Andrei Kirilenko, PhD in Computer Science, Russia, 2001. (Jan 2006-May 2006).
14. Mr. Sergiu Budesteanu, Moldova Academy of Sciences, Land Use and Water Quality in Moldovan Landscapes (Fall 2005)

Undergraduate Student Research Mentoring

1. Cristian Graupe, Mechanical Engineering Major. (Nov 2015-current)
2. Ryan Schroeder, NRES Major (Oct 2015-current). Winner of Udall Scholarship.
3. Lillie Berger, FNR Major (Wildlife). (Nov 2015-current)
4. Kate Dinolfo, FNR Major (Wildlife). (Nov 2015-present)
5. Jack Vanschaik, Statistics Major (Sept 2015-current)
6. Kristen Smith, Mathematics Major (Sept 2015-current)
7. Andre Bagnara, FNR Major, (Natural Resources Planning and Decision Making).
8. Kimberly Robinson, FNR, Natural Resources Management and Planning (first place award on parking lots and impervious surfaces at FNR Research Symposium 2008)
9. James Plourde, FNR Major, (Natural Resources Planning and Decision Making).
10. Katherine Lillie, FNR Major (Wildlife).
11. Ashlee Kilpatrick, FNR Major (Wildlife). (first place award for poster on Historical Landscape Ecology at the C4E April 2008 Research Symposium).
12. Dasaraden Mauree, Civil Engineering Major.
13. Jinghan Li, FNR Major, (Natural Resources Planning and Decision Making).
14. Amanda Thalhammer, FNR Major (Wildlife).
15. Li Jingha, FNR Major, (Natural Resources Planning and Decision Making).
16. Zhifen Pan, FNR Major, (Natural Resources Planning and Decision Making).
17. Jessica Johnson, FNR Major (Wildlife).

PUBLIC AND K-12 ENGAGEMENT

Communicating my scientific work to the public occurs through a variety of venues that span traditional media (radio, TV and newspapers), science museum/theater (IMAX, Dome and Giant Screen Cinemas and large scale multi-media) exhibits, and outdoor summer camps for kids. I also support, through my center, a variety of web-based tools for learning, exploring of soundscapes. I also support Purdue Extension's Sustainable Communities efforts for local natural resource planning in the Great Lakes Basin.

SCIENCE THEATER AND MUSEUM EXHIBITS

Global Soundscapes! A Mission to Record the Earth is an Interactive Theater Show for IMAX, Dome and Giant Screen Cinemas. Three segments allow middle school youth to learn about sound production in

animals, the physics of sound transmission, and the principles of hearing in humans. My students and I are shown working the field (Mongolia and Costa Rica) and we narrate portions of the film. The 40 min. film will launch formally in theaters in October 2016. Eight theaters will be part of the world premiere. Shelf-life of IMAX-Giant Screen film will be 5-10 years. Anticipated impact > 1,300,000 youth and young families in North America, Europe, Australia and China.

Soundscapes of Past Indiana Landscapes is a room-sized exhibit planned for opening in remodeled space at the Indiana State Museum (November 2016) that will showcase our soundscape recordings across the state from restored prairies and old growth forest stands. Simulations of extinct birds will also be introduced into the recordings. Anticipated impact > 50,000 patrons.

ONLINE OUTREACH RESOURCES

TippingPointPlanner.org is a tool used by Purdue Extension and Illinois-Indiana Sea Grant for planning of natural resources across the Great Lake States. I lead the science team of researchers from 5 states and community workshops are led by Kara Salazar. Over 210 community planners in seven communities across Indiana and Illinois have been trained to use this planning tool.

iListen.org is an online kid's MOOC (Massively Open Online Course) that teaches middle school youth about the physics of sound, the ecology of animal communication, patterns of biodiversity around the world, and the scientific method. The curriculum is aligned with the Next Generation Science Standards and content is assessed by an independent group.

Recordtheearth.org is a global citizen science effort to record soundscapes and human sentiments of sound during special events (e.g., Earth Day, emergence of 17-year brood cicadas). Over 2,400 citizen scientists have contributed recordings since 2014.

Soundcloud.com/global-soundscapes is a "highlights" reel of Center for Global Soundscape recordings from our research site. Recordings include: "penguin party", "howler monkey Good of thunder", etc. We have > 80 followers.

Youtube.com/globalsoundscapes is a set of channels containing mini-webisodes and hike with us POVs by me and my team to kids and a set of 360 videos for Google CardBoard immersion headsets.

SUMMER FIELD CAMP GUIDES

Your Ecosystem Listening Labs (YELLs) have been developed for youth grades 5-7 that teach them about the physics of sound, how animals make sound, the importance of sound for animal survival as well as a host of outdoor games and observational activities geared to stimulate young minds toward an appreciation for science. Two guide have been developed: an Instructors Guide (>110 pages) that summarizes, for middle school teachers, key topics within a matrix of Next Generation Science Standards and a Student Activity Guide, composed of a workbook and instruction manual for outdoor activities and indoor computer analysis activities. The YELLs are piloted in the National Audubon Summer Camps (Bent-of-the-River, CT) and Girls and Boys club camp near Indianapolis. Once completed, these will be released to the general public via the Ag Store and CAISE (Center for the Advancement of Informal Science Education) websites.

MEDIA COVERAGE

I have given > 120 interviews to radio, TV and print journalists. My work has appeared in numerous prominent media outlets including *New York Times Magazine* (Mar 2011), *NPR Science Friday* (April 22, 2011 and April 22, 2013), *Today Show* (Earth Day, April 22, 2014), *Science Magazine News* (headline story, Feb 2014), *PRI's Living on Earth* (May 2012 and June 2014), *NPR Weekend Edition* (April 2011), *NOVA* (online), *London Times*, *Huffington Post*, *Salon Magazine*, *Wired Magazine*, Australian National Public Radio *Morning Show* (July 2012 and April 2014). My work was also the feature story for the National Science Foundation web site for Earth Week, 2015 which included a 5+ min podcast.

My students and I have also been selected to give *TedxPurdue* talks (April 2016, Bellisario and Ghadiri), *Dawn or Doom* public engagement talks (Oct 2014) and our work was a feature story on *BoilerBytes* in Apr. 2015.

SERVICE

AT PURDUE

Departmental

Search Committee (Chair), Quantitative Analysis and Modeling of Natural Resources, Aug 2011-Mar 2012. Search yielded Songlin Fei.

Search Committee (Chair), Plant Ecologist, Aug 2010-Mar 2010. Search yielded Jeff Dukes.

Search Committee (Chair), Plant Ecologist, Aug 2008-Mar 2009. Search yielded Joe Fargione.

Search Committee, Environmental and Natural Resources Economist, Nov 2015-April 2016. Search yielded Kurt Niquidet.

Search Committee, Sustainable Natural Resource Social Scientist, Nov 2013-April 2014. Search yielded Zhao Ma.

Search Committee, Sustainable Communities Planning Extension Specialist, Feb 2013-Apr 2013. Search yielded Kara Salazar.

Search Committee, Natural Resources Planning Specialist, Feb 2011-Apr 2011. Search yielded Deanna Glosser.

Search Committee, Human Dimensions of Natural Resources. 2008. Search yielded Shannon Amberg.

Search Committee, Illinois-Indiana Sea Grant & EPA GLNPO – Great Lakes Contaminants Extension Position. 2004. Search yielded Elizabeth Hinchey-Malloy.

Search Committee, Spatial Statistics Position, joint position with Department of Statistics and Department of Forestry and Natural Resources. 2004-2007. Search yielded Hao Zhang.

Faculty Mentoring Committee, Pat Zollner (2013-present)

Faculty Mentoring Committee, Eva Haviarova (2014-present)

Faculty Mentoring Committee, Linda Prokopy (2004-2007).

Faculty Mentoring Committee, Reuben Goforth (2008-present).

Faculty Mentoring Committee, Helen Rowe (2008-2010) (Chair).

Faculty Mentoring Committee, Shannon Amberg (2009-2010).

Faculty Mentoring Committee, Jeff Dukes (2008-2012).

Faculty Mentoring Committee, Rod Williams (2008-2012).

Co-Director, Partnering for Land Use Sustainability (PLUS) (2007-present).

Graduate Committee, 2004-2012.

Budget and Steering Committee, 2005-2014.

FNR Identity Committee, 2003-2004.

NRPDM Curriculum Committee, 2006-2015.

Social Committee, August 2004-2012.

College

Professional Master's Degree Curriculum Program Development Committee. 2015-present.

Search Committee, Landscape and Nursery Management and Landscape Horticulture. (Two Positions). Department of Horticulture and Landscape Architecture. 2003-2005.

Search Committee, College of Agriculture, Dean. Search yielded Randy Woodson. 2004-2005.

Search Committee, Head, Department of Forestry and Natural Resources. 2004-2005. Search yielded Rob Swihart

Search Committee, Assistant Director of Agriculture Research Programs, 2005-2007. Search yielded Carl Huetteman.

NRES Steering Committee, School of Agriculture. 2004-2005.

Grievance Committee, 2005-2009.

Hatch/McIntire-Stennis Review Committees for Drs. Florax, Dunning, Shao, Bowling, Fargione, Zollner, Niyogi, Gramig, and Prokopy.

Strategic Planning Committee-Research, 2007-2009.

Review Committee, Center for Information and Regulatory Environment Systems (CIRES), Department of Entomology. 2008. Chaired by Robert Waltz, Director of Indiana State Chemist Office.

Spirit of the Land Grant Mission Award, Selection Committee, 2008-2009.

Data Storage Planning Committee, 2009.
Spatial Sciences IGP Exploration Curriculum Committee, 2010.

University

University Steering Committee, PURR (Purdue University Research Repository), 2012-present.
Executive Committee, Center for the Environment 2012-present.
Reviewer, Borlag Summer Institute, Center for Global Food Security, 2013-2015.
Sustainability Certificate Committee, Center for the Environment, 2015-present.
Search Committee for Center for the Environment, Director, 2005-2007. Yielded John Bickham.
Search Committee (Chair). Ecological Impacts of Climate Change, 2005-2008. Yielded Joe Fargione (first search) and Jeff Dukes (second search)
Executive Committee for Purdue Interdisciplinary Center for Ecological Sustainability (PICES). 2004-2012.
Advisory Committee, Purdue Terrestrial Observatory. August 2003-2012.
Internal Executive Committee, Discovery Park Center for the Environment. 2005-2006.
Sensory Landscape/Intelligent Monitoring (SLIM), Discovery Park Center for the Environment, Launch Team Leader. 2005-2006.
EcoHub and Sustainable Futures Launch Team Member, Discovery Park Center for the Environment. 2005-2006.
Environmental Sciences Applications Leader and Executive Committee Member, Purdue Center for Wireless Systems and Applications. 2005-present.
Member, Laboratory for Applications of Remote Sensing (LARS). 2004-present.
Member of Committee to Develop a Graduate Program in Spatial Sciences and Engineering at Purdue, 2007-2011.
Member, Advisory Board, EnVISION Center, ITaP, 2008-present.

SERVICE TO PROFESSIONAL ORGANIZATIONS

National Science Foundation, Final Site Review Team, Environmental Synthesis Center, September 2010 (SESYNC at University of Maryland selected).
National Science Foundation External Reviewer, Social, Behavioral and Economic Sciences, 2009, 2010, 2012, 2013, 2015.
National Science Foundation, BCS Geography and Spatial Sciences DDRI, 2011-2013.
NASA Terrestrial Ecosystems External Reviewer, September 2009.
European Science Foundation, External Reviewer, June 2009.
Austrian Science Foundation, External Reviewer, Feb 2008.
National Science Foundation Panel Member, Coupled Natural-Human Systems, 2007, 2008.
Reviewer of articles for *American Naturalist*, *Landscape Ecology*, *Photogrammetry and Remote Sensing*, *Journal of Environmental Management, Environment and Planning B*, *International Journal of Geographic Information Science*, *Earth Interactions*, *Ecological Modeling*, *Great Plains Journal*, *Journal of Land Use Science*, *Land Use Policy*, *Environmental Modeling and Software*, *Computers, Environment and Urban Systems*, *Forest Ecology and Management*, *Journal of Terrestrial Observations*, *Ecological Economics*, *Earth Interactions*, *Landscape and Urban Planning*, *Applied Geochemistry*, *Journal of Applied Geography*, and *Computers and Geosciences*, *Applied Geography*, *Landscape and Urban Planning*.
Chair, Quantifying the Performance of Land Use Change Models Session, 6th Open Conference on Global Environmental Change. Bonn, Germany, October 9-14, 2005.
EPA STAR Graduate Fellowship Program Review Panel, 1999, 2000, 2002, 2004, 2005.
Advisory Board, Grand Traverse Bay Watershed 319 Management Plan Project. 2000-2003
Co-Coordinator, Joint Michigan-Shiga Environmental Sciences Symposium, July 2001.
Management Team, Environmental Sciences in Japan Semester Abroad, Japan Center for Michigan Universities (1999-present)
Dean's Designee Committee, College of Natural Science Representative, committee reports to the Dean of College of International Studies and Programs, MSU 1996-2001.
Women in Science and Engineering Committee, College of Natural Science, MSU. 1999-2001.
Coordinator, Land Use Cover Change Modeling Session. International Association of Landscape Ecology (IALE), Arizona State University, April 2000

United States Environmental Protection Agency, STAR Graduate Fellowship Program, Panel Member for Zoology, Entomology and Forestry, Feb 1999 and 2000.
United States Environmental Protection Agency, Land Change Modeling Working Group 1999-2002.
United States Geological Survey Land Use Change Modeling Organizing Committee. 1997.
Coordinator of Land Use Modeling Sessions at the Third International GIS and Environmental Modeling Conference, Sante Fe, New Mexico. Sept. 1997.
USDA-Forest Service Slow the Spread of the Gypsy Moth, National Technical Committee 1993-1996.
United States Global Change Task Force – USDA Forest Service Representative 1992-1994.

SERVICE TO STAKEHOLDERS AND COLLEAGUES

I interact with a variety of stakeholders around the world where research project results are used in the development of policy or tools being used by our team are being distributed to the scientific community. Recent workshops include the following:

Climate change adaptation workshops. Held in Dar es Salaam, Tanzania; Nairobi, Kenya, and Kampala, Uganda, July 2007. Full day workshops were held with 15-20 natural resource experts in each country where a team of researchers (~3) made presentations summarizing research on land use and climate change forecasts for each country. Discussions centered on whether different social groups would adapt well to anticipated climate change. Presentations were made by Drs. Olson and Pijanowski and a member from a collaborating university in each country.

Muskegon River Watershed “Mega-Model” Outcomes. Held in Muskegon, Michigan, in April of 2008, Dr. Pijanowski participated in a two day workshop involving ~30 stakeholders from local and state government, members from the Muskegon River Watershed Assembly (a not-for-profit environmental NGO coordinating research and planning across this regional watershed). Twelve extension bulletins were produced (8 co-authored by Dr. Pijanowski and his students) that summarized various aspects of the project in non-technical terms.

Global Sustainable Soundscape Network Workshops. I have organized and hosted >6 multi-day workshops that train students and faculty on the use of the latest analysis and data sharing tools being developed at the Center for Global Soundscapes. Workshops have been held at: (1) Aldo Leopold Foundation, Baraboo, WI (2012); (2) Sonoran Desert, Oracle, Arizona (2013); (3) Tuskegee University (2013); (4) Wells Estuarine Reserve, ME (2014); (5) University of Brunei, Darussalam, Brunei (2014) (6) Crane Trust, NB (2015); and (7) DePaul University-Lincoln Park Zoo (2016).