

Curriculum Vitae
JAMES A. THOMPSON
Division of Plant and Soil Sciences
West Virginia University
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I. APPOINTMENT

Professor of Pedology and Land Use, Division of Plant and Soil Sciences, West Virginia University, Morgantown, WV. 2014-present

Research and Development Coordinator, Geospatial Research Unit (formerly the National Geospatial Development Center), West Virginia University (in collaboration with USDA-NRCS-National Soil Survey Center), Morgantown, WV. 2006-present

Previous Appointments

Associate Professor of Pedology and Land Use, Division of Plant and Soil Sciences, West Virginia University, Morgantown, WV. 2008-2014

Assistant Professor of Pedology and Land Use, Division of Plant and Soil Sciences, West Virginia University, Morgantown, WV. 2004-2008

Assistant Professor of Natural Resource Management and Land Use Planning, Department of Soil Science, North Carolina State University, Raleigh, North Carolina. 2001-2004

Assistant Professor of Soil Science, Department of Agronomy, University of Kentucky, Lexington, Kentucky. 1997-2001

Postdoctoral Research Assistant, 1997, Dep. of Soil, Water, & Climate, University of Minnesota

Instructor, 1993 and 1994, Dep. of Geography, University of Wisconsin-Eau Claire

Graduate Research Assistant, 1992-1996, Dep. of Soil, Water, & Climate, University of Minnesota

II. EDUCATION

University of Minnesota

Doctor of Philosophy in Soil Science, Minor in Water Resources, December 1996

Advisers: James C. Bell and David F. Grigal

Dissertation: *Pedogenesis and morphology of prairie soils subject to hydric soil conditions.*

The Ohio State University

Master of Arts in Geography, June 1992

Adviser: Michael N. DeMers

Masters Paper: *Predicting Soil Mapping Unit Inclusion Locations Using Detailed Topographic Data Within a Geographic Information System.*

The Pennsylvania State University

Bachelor of Science in Agronomy, May 1990

Adviser: Gary W. Petersen

Honors Thesis: *Evaluation of the STATSGO Database Using a Geographic Information System.*

III. INSTRUCTION

A. Scholarly Accomplishments

1. Courses Taught

West Virginia University

Soil Judging, AGRN 125 (13 semesters)

Advanced Soil Judging, AGRN 225 or AGRN 493 (9 semesters)

Soil Survey and Land Use, AGRN 415 (7 semesters)

Soil Genesis and Classification, AGRN 417 (7 semester)

Environmental Soil Management, AGRN/ENVP 425 (2 semesters)

Pedology, AGRN 552 or AGRN 591 (6 semesters)

Pedometrics, PLSC 592A (1 semester)

Applied Wetland Ecology and Management, WMAN/CE/PLSC 547 (7 semesters)

Graduate Seminar, AGRN 796 (2 semesters)

North Carolina State University

Soil Science, SSC 200 (3 semesters)

Soil Geomorphology, SSC 620M (2 semesters)

Principles of Soil Science, SSC 012 (1 semester)

University of Kentucky

Fundamentals of Soil Science, PLS 366 (7 semesters)

Soil and Water Analysis Laboratory, PLS 367 (5 semesters)

University of Wisconsin-Eau Claire

Soils, GEOG 350 (2 semesters)

University of Minnesota

Wetland Soils (Teaching Assistant), Soil 5555 (1 semester)

Soil Conservation and Land-Use Management. (Teaching Assistant), Soil 3220 (3 semesters)

Problem Solving (Teaching Assistant), NRES 5100 (1 semester)

2. Publications and Presentations

Textbooks and Laboratory Manuals

1. **Thompson, J.A.**, J.M. Galbraith, and J.N. Shaw (ed.). 2008. Handbook for American Society of Agronomy Collegiate Soils Contest, Southeastern Region. (Available online with updates at https://sites.google.com/a/vt.edu/se_region_soil_judging/.) [Last Updated: 08-09-17.]
2. Coyne, M.S. and **J.A. Thompson**. 2006. Fundamental Soil Science. Delmar Learning, Clifton Park, NY.
3. Coyne, M.S. and **J.A. Thompson**. 2006. Math for Soil Scientists. Delmar Learning, Clifton Park, NY.
4. King, L.D., H.J. Kleiss, and **J.A. Thompson**. 2004. SSC 200 Soil Science Laboratory Manual. Tavenner Publishing Co., Anderson, SC.

Refereed Journal Articles

1. **Thompson, J.A.** and L.J. Grabau. 2004. A la carte grading: Providing students opportunities to determine their own path to success. Journal of Natural Resources and Life Science Education, 33:92-97.

Book Chapters

1. **Thompson, J.A.**, and J.C. Bell. 2016. Hydric Soil Indicators in Mollisol Landscapes. Pp. 311-323. In Vepraskas, M.J., and C.B. Craft (Eds.) *Wetland Soils: Genesis, Hydrology, Landscapes, and Classification*, 2nd ed. CRC Press, Boca Raton, FL.
2. Jackson, C.R., **J.A. Thompson**, and R.K. Kolka. 2014. Wetland Soils, Hydrology, and Geomorphology. Pp. 23-60. In D.P. Batzer and R.R. Sharitz (Eds.) *Ecology of Freshwater and Estuarine Wetlands*, 2nd ed. University of California Press, Berkeley, CA.
3. **Thompson, J.A.**, S.M. Roecker, S. Grunwald, and P.R. Owens. 2012. Digital Soil Mapping: Interactions with and Applications for Hydropedology. In Lin, H. (Ed.). *Hydropedology: Synergistic Integration of Soil Science and Hydrology*. Academic Press. p. 665-709.

Abstracts and Proceedings

1. **Thompson, J.A.**, and M. Levin. 2010. Preparing Professional Pedologists through Field Practicums and Career Experience. Oral presentation at the 19th World Congress of Soil Science, Brisbane, Australia, August 1-6, 2010.
2. **Thompson, J.A.**, and L.J. Grabau. 2000. A la carte grading: Providing students with opportunities to determine their own path to success. Oral presentation at the 2000 American Society of Agronomy Annual Meetings, Minneapolis, MN.

3. Advising Activities

Graduate Advising

1. James E. Leonard, M.S. student, Plant and Soil Sciences, West Virginia University, 2018-present
2. Christopher W. Burney, Ph.D. student, Plant and Soil Sciences, West Virginia University, 2018-present
3. Matthew C. Prieto, M.S. student, Plant and Soil Sciences, West Virginia University, 2016-2017
4. Adrienne C. Nottingham, M.S. student, Plant and Soil Sciences, West Virginia University, 2015-2017
5. Heather D. Watson, Ph.D. student, Plant and Soil Sciences, West Virginia University, 2014-2016
6. Michael B. Harman, Ph.D. student, Plant and Soil Sciences, West Virginia University, 2008-2016
7. Sara L. Jones, M.S. student, Plant and Soil Sciences, West Virginia University, 2013-2015
8. Katey M. (Buckland) Yoast, M.S. student, Plant and Soil Sciences, West Virginia University, 2012-2015
9. Travis W. Nauman, Ph.D. student, Plant and Soil Sciences, West Virginia University, 2011-2015
10. John F. Beck, Ph.D. student, Plant and Soil Sciences, West Virginia University, 2008-2011
11. Stephen M. Roecker, M.S. student, Plant and Soil Sciences, West Virginia University, 2005-2013
12. Michael B. Harman, M.S. student, Plant and Soil Sciences, West Virginia University, 2005-2008
13. Eric S. Anderson, Ph.D. student, Soil Science, NC State University, 2001-2004
14. Christopher B. Coulter, M.S. student, Plant and Soil Science, University of Kentucky, 1999-2001
15. Amanda C. Abnee, M.S. student, Plant and Soil Science, University of Kentucky, 1999-2001

Graduate Committee Service

1. Committee member for five (5) current Ph.D. students (1 Plant and Soil Sciences, 1 Wildlife and Fisheries Resources, 2 Geology, 1 Geography)
2. Committee member for four (4) former Ph.D. students (1 Plant and Soil Sciences, 1 Soil Science, 1 Forestry, 1 Geography) and eight (8) former M.S. students (2 Plant and Soil Sciences, 1 Animal and Nutritional Sciences, 1 Forestry, 2 Biosystems and Agricultural Engineering, 1 Geography, 1 Wildlife and Fisheries Resources)

IV. RESEARCH

A. Scholarly Accomplishments

1. Publications

Refereed Publications—Journal Articles

1. Ramcharan, A., T. Hengl, T. Nauman, C. Brungard, S. Waltman, S. Wills, and J. Thompson. 2018. Soil property and class maps of the conterminous US at 100 meter spatial resolution based on a compilation of soil point observations and machine learning. *Soil Sci. Soc. Am. J.* doi: 10.2136/sssaj2017.04.0122
2. Nottingham, A.C., J.A. Thompson, F. Wood, P.J. Edwards, and M.P. Strager. 2018. Mapping pedomemory of spodic morphology using a species distribution model, *Geoderma*. <https://doi.org/10.1016/j.geoderma.2017.10.044>.
3. Arrouays, D., J.G.B. Leenaars, A.C. Richer-de-Forges, K. Adhikari, C. Ballabio, M. Greve, M. Grundy, E. Guerrero, J. Hempel, T. Hengl, G. Heuvelink, N. Batjes, E. Carvalho, A. Hartemink, A. Hewitt, S.-Y. Hong, P. Krasilnikov, P. Lagacherie, G. Lelyk, Z. Libohova, A. Lilly, A. McBratney, N. McKenzie, G.M. Vasquez, V.L. Mulder, B. Minasny, L. Montanarella, I. Odeh, J. Padarian, L. Poggio, P. Roudier, N. Saby, I. Savin, R. Searle, V. Solbovoy, **J. Thompson**, S. Smith, Y. Sulaeman, R. Vintila, R. Viscarra Rossel, P. Wilson, G.-L. Zhang, M. Swerts, K. Oorts, A. Karklins, L. Feng, A.R. Ibelle Navarro, A. Levin, T. Laktionova, M. Dell'Acqua, N. Suvannang, W. Ruam, J. Prasad, N. Patil, S. Husnjak, L. Pásztor, J. Okx, S. Hallett, C. Keay, T. Farewell, H. Lilja, J. Juilleret, S. Marx, Y. Takata, Y. Kazuyuki, N. Mansuy, P. Panagos, M. Van Liedekerke, R. Skalsky, J. Sobocka, J. Kobza, K. Eftekhari, S. Kacem Alavipanah, R. Moussadek, M. Badraoui, M. Da Silva, G. Paterson, M. da Conceição Gonçalves, S. Theocharopoulos, M. Yemefack, S. Tedou, B. Vrscaj, U. Grob, J. Kozák, L. Boruvka, E. Dobos, M. Taboada, L. Moretti, D. Rodriguez. 2017. Soil legacy data rescue via GlobalSoilMap and other international and national initiatives. *GeoResJ*, 14:1-19. <https://doi.org/10.1016/j.grj.2017.06.001>.
4. Kim, D., D.R. Hirmas, R.W. McEwan, T.G. Mueller, S.J. Park, P. Šamonil, **J.A. Thompson**, and O. Wendroth. Predicting the Influence of Multi-Scale Spatial Autocorrelation on Soil–Landform Modeling. *Soil Sci. Soc. Am. J.*, 80(2):409-419.
5. D'Avello, T., S. Indorante, S. Waltman, and **J. Thompson**. A Pedological Tale IV: Conversations with Turtle, Bear and Eagle. *Soil Horizons*, 56(2). doi: 10.2136/sh2015-56-2-rc1
6. Nauman, T.W., **J.A. Thompson**, S.J. Teets, T.A. Dilliplane, J.W. Bell, S.J. Connolly, H.J. Liebermann, and K.M. Yoast. 2015. Ghosts of the forest: Mapping pedomemory to guide forest restoration. *Geoderma* 247: 51-64. doi:10.1016/j.geoderma.2015.02.002
7. Nauman, T.W., **J.A. Thompson**, J. Teets, T. Dilliplane, J.W. Bell, S.J. Connolly, H.J. Liebermann, and K. Yoast. 2015. Pedoecological Modeling to Guide Forest Restoration using Ecological Site Descriptions. *Soil Sci. Soc. Am. J.*, 79(5): 1406-1419. doi:10.2136/sssaj2015.02.0062
8. Nottingham, A.C., **J.A. Thompson**, P.J. Turk, Q. Li, and S.J. Connolly. 2015. Seasonal Dynamics of Surface Soil Bulk Density in a Forested Catchment. *Soil Sci. Soc. Am. J.*, 79(4):1163-1168. doi:10.2136/sssaj2014.12.0491n
9. Rabenhorst, M.C., A. Schmeehling, **J.A. Thompson**, D.R. Hirmas, R.C. Graham, and A.M. Rossi. 2015. Reliability of Soil Color Standards. *Soil Sci. Soc. Am. J.*, 79(1), 193-199. doi: 10.2136/sssaj2014.10.0401
10. Arrouays, D., Grundy, M.G., Hartemink, A.E., Hempel, J., Heuvelink, G.B.M., Hong, S.Y., Lagacherie, P., Lelyk, G., McBratney, A.B., McKenzie, N.J., Mendonça Santos, M.L., Minasny, B., Montanarella, L., Odeh, I.O.A., Sanchez, P.A., **Thompson, J.A.**, Zhang, G.L., 2013. GlobalSoilMap: toward a fine-resolution global grid of soil properties. *Advances in Agronomy* 125: 93-134.

11. D’Avello, T., S. Indorante, S. Waltman, and **J. Thompson**. 2014. A Pedological Tale III: Where Have the Years Gone? *Soil Horizons*, 55(6). doi:10.2136/sh2014-55-6-rc1
12. Nauman, T.W., **J.A. Thompson**, and C. Rasmussen. 2014. Semi-Automated Disaggregation of a Conventional Soil Map using Knowledge Driven Data Mining and Random Forests in the Sonoran Desert, USA. *Photogrammetric Engineering & Remote Sensing*, 80(4), 353-366
13. Libohova, Z., S. Wills, N.P. Odgers, R. Ferguson, R.F.Nesser, **J.A. Thompson**, L.T. West, J.W. Hempel. 2014. Converting pH 1:1 H₂O and 1:2 CaCl₂ to 1:5 H₂O to contribute to a harmonized global soil database. *Geoderma*, 213:544-550. doi:10.1016/j.geoderma.2013.08.019
14. Nauman, T.W., and **J.A. Thompson**. 2014. Semi-Automated Disaggregation of Conventional Soil Maps using Knowledge Driven Data Mining and Classification Trees. *Geoderma*, 213:385-399. doi:10.1016/j.geoderma.2013.08.024
15. **Thompson, J.A.**, A.R. Pollio, and P.J. Turk. 2013. Comparison of Munsell Soil-Color Charts and the GLOBE Soil Color Book. *Soil Science Society of America Journal*, 77:2089-2093. doi:10.2136/sssaj2013.03.0117n
16. Harman, M.B., **J.A. Thompson**, E.M. Pena-Yewtukhiw, L.M. McDonald, and J. Beard. 2013. Phosphorus translocation in pastures on benchmark soils in West Virginia. *Soil Horizons*, 54(3). doi: 10.2136/sh12-12-0037
17. Odgers, N.P., Z. Libohova, and **J.A. Thompson**. 2012. Equal-area spline functions applied to a legacy soil database to map soil organic carbon. *Geoderma* 189, 153-163.
18. Grunwald S., **J.A. Thompson**, and J.L. Boettinger. 2011. Digital soil mapping and modeling at continental scales – finding solutions for global issues. *Soil Sci. Soc. Am. J. (SSSA 75th Anniversary Special Paper)* 75(4): 1201-1213.
19. Harman, M.B., **J.A. Thompson**, E.M. Pena-Yewtukhiw, L.M. McDonald, and J. Beard. 2011. Preferential flow in pastures on benchmark soils in West Virginia. *Soil Science*, 176: 509-519.
20. Prescott, T.M., **J.A. Thompson**, W.J. Waltman, and T.A. Craul. 2008. Thinking Inside the (Tool) Box: Geomorphometric Analysis for the Soil Survey Update of Potter County, Pennsylvania. *Soil Survey Horizons*, 49:68-74.
21. Pena-Yewtukhiw, E.M., **J.A. Thompson**, and J.H. Grove. 2007. The scale dependency of terrain attributes impacts their relationship to corn grain yield in rolling landscapes. In J.V. Stafford (ed.), *Precision Agriculture’07*. Wageningen Academic Press, pp:117-123.
22. **Thompson, J.A.**, E.M. Pena-Yewtukhiw, and J.H. Grove. 2006. Soil-landscape modeling across a physiographic region: topographic patterns and model transportability. *Geoderma*, 133:57-70.
23. Lin, H., J. Bouma, Y. Pachepsky, A. Western, **J. Thompson**, R. van Genuchten, H.-J. Vogel, and A. Lilly. 2006. *Hydropedology: Synergistic Integration of Pedology and Hydrology*. Water Resources Research, 42, W05301, doi:10.1029/2005WR004085.
24. Anderson, E.S., **J.A. Thompson**, D.A. Crouse, and R.E. Austin. 2006. Horizontal resolution and data density effects on remotely sensed LIDAR-based DEM. *Geoderma*, 132, 406-415.
25. Anderson, E.S., **J.A. Thompson**, and R.E. Austin. 2005. LIDAR data density and linear interpolation influence on elevation prediction estimates. *International Journal of Remote Sensing*, 26:3889–3900.
26. **Thompson, J.A.** and R.K. Kolka. 2005. Soil carbon storage estimation in central hardwood forest watersheds using quantitative soil-landscape modeling. *Soil Science Society of America Journal*, 69:1086–1093.
27. Abnee, A.C., **J.A. Thompson**, R.K. Kolka, E.M. D’Angelo, and M.S. Coyne. 2004. Landscape influences on potential soil respiration in a forested watershed of southeastern Kentucky. *Environmental Management*, 33 (Supplement 1):S160–S167.
28. Abnee, A.C., **J.A. Thompson**, and R.K. Kolka. 2004. Landscape modeling of in situ soil respiration in a forested watershed of southeastern Kentucky. *Environmental Management*, 33 (Supplement 1): S168–S175.

29. Coulter, C.B., R.K. Kolka, and **J.A. Thompson**. 2004. Water quality in rural, urban and mixed use watersheds. *Journal of the American Water Resources Association*. 40:1593-1601.
30. **Thompson, J.A.**, J.C. Bell, and C.A. Butler. 2001. Digital elevation model resolution: Effects on terrain attribute calculation and quantitative soil-landscape modeling. *Geoderma*, 100:67-89.
31. Coulter, C.B., **J.A. Thompson**, and R.K. Kolka. 2001. Water quality implications of urban development in mixed-use watersheds. Pp. 219-224 in J. J. Warrick, (ed.) *AWRA Annual Spring Specialty Conference Proceedings. "Water Quality Monitoring and Modeling."* American Water Resources Association, Middleburg, Virginia, TPS-01-1.
32. Pena-Yewtukhiw, E.M., J.H. Grove, **J.A. Thompson**, and C.E. Kiger. 2001. New technologies and analytical tools for fertilizer recommendations? *Better Crops with Plant Food*, 85:18-22.
33. Wheeler, D.W., **J.A. Thompson**, and J.C. Bell. 1999. A laboratory comparison of soil redox conditions between red soils and brown soils in Minnesota, USA. *Wetlands*, 19:607-616
34. **Thompson, J.A.**, J.C. Bell, and C.W. Zanner. 1998. Hydrology and hydric soil extent within a Mollisol catena in southeastern Minnesota. *Soil Sci. Soc. Am. J.*, 62:1126-1133.
35. **Thompson, J.A.** and J.C. Bell. 1998. Hydric conditions and hydromorphic properties within a Mollisol catena in southeastern Minnesota. *Soil Sci. Soc. Am. J.*, 62:1116-1125.
36. **Thompson, J.A.**, J.C. Bell, and C.A. Butler. 1997. Quantitative soil-landscape modeling for estimating the areal extent of hydromorphic soils. *Soil Sci. Soc. Am. J.*, 61:971-980.
37. **Thompson, J. A.** and J. C. Bell. 1996. A color index for identifying hydric soil conditions in seasonally-saturated Mollisols. *Soil Sci. Soc. Am. J.*, 60:1979-1988.
38. Bell, J.C., C.A. Butler, and **J.A. Thompson**. 1996. Soil hydrology and morphology of three Mollisol hydrosequences in Minnesota. *In* J. Wakely and S. Sprecher (eds.) *Preliminary investigations of hydric soil hydrology and morphology in Alaska, Indiana, North Dakota, Minnesota, and Oregon*. Wetlands Research Program Technical Report. U. S. Army Corps of Engineers, Waterways Experiment Station.
39. Bell, J.C., **J.A. Thompson**, and C.A. Butler. 1995. Morphological indicators of seasonally-saturated soils for a hydrosequence in southeastern Minnesota. *Minn. Acad. Sci.*, 59(4):25-34.
40. Bell, J.C., C.A. Butler, and **J.A. Thompson**. 1995. Soil-terrain modeling for site-specific agricultural management. *In* P. C. Robert, R. H. Rust, and W. E. Larson (eds.) *Site-specific management for agricultural systems*. American Society of Agronomy, Madison, WI. pp. 209-228.
41. Bell, J.C., **J.A. Thompson**, C.A. Butler, and K. McSweeney. 1994. Modeling soil genesis from a landscape perspective. *Transactions of the 15th World Congress of Soil Science*. Acapulco, Mexico. Vol. 6a:179-195. International Society of Soil Science.

Refereed Publications—Proceedings Papers

1. Libohova, Z., N.P. Odgers, J. Ashtekar, P.R. Owens, J.A. Thompson, and J. Hempel. 2016. Some Challenges on Quantifying Soil Property Predictions Uncertainty for the GlobalSoilMap Using Legacy Data. Pp. 131-140. *In* Zhang, G.-L., D. Brus, F. Liu, X.-D. Song, and P. Lagacherie (Eds.) *Digital Soil Mapping Across Paradigms, Scales and Boundaries*. Springer Singapore.
2. Helmick, J.L., T.W. Nauman, and J.A. Thompson. 2014. Developing and assessing prediction intervals for soil property maps derived from legacy databases. *In* D. Arrouays, N. McKenzie, J. Hempel, A.C. Richer de Forges, and A. McBratney (Eds.), *GlobalSoilMap: Basis of the Global Soil Information System*. CRC Press, New York. p. 359-366.
3. Hempel, J.W., Libohova, J.A. Thompson, N.P. Odgers, S. Smith, G.W. Lelyk, and G.E.E. Geraldo. 2014. GlobalSoilMap North American Node Progress. *In* D. Arrouays, N. McKenzie, J. Hempel, A.C. Richer de Forges, and A. McBratney (Eds.), *GlobalSoilMap: Basis of the Global Soil Information System*. CRC Press, New York. p. 359-366.

4. Grunwald, S., **J.A. Thompson**, B. Minasny, and J.L. Boettinger. 2012. Digital soil mapping in a changing world. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 301-305.
5. Hempel, J.W., Libohova, N.P. Odgers, **J.A. Thompson**, S. Smith, and G.W. Lelyk. 2012. Versioning of GlobalSoilMap.net raster property maps for the North American Node. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 429-433.
6. Libohova, Z., S. Wills, J.W. Hempel, N.P. Odgers, and **J.A. Thompson**. 2012. Using Pedotransfer functions for estimating soil pH and bulk density at regional scale. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 313-316.
7. Nauman, T.W., **J.A. Thompson**, N.P. Odgers, and Z. Libohova. 2012. Fuzzy disaggregation of conventional soil maps using database knowledge extraction to produce soil property maps. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 203-207.
8. Odgers, N. P., **J.A. Thompson**, Z. Libohova, and A.B. McBratney. 2012. Uncertainty estimation for weighted-means digital soil maps. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 179-184.
9. **Thompson, J A.**, T.W. Nauman, N.P. Odgers, Z. Libohova, and J.W. Hempel. 2012. Harmonization of legacy soil maps in North America: Status, trends, and implications for digital soil mapping efforts. In B. Minasny, B.P. Malone, and A.B. McBratney (Eds.), *Digital Soil Assessments and Beyond: Proceedings of the 5th Global Workshop on Digital Soil Mapping 2012*, Sydney, Australia. CRC Press, New York. p. 97-102.
10. Roecker, S.M. and **J.A. Thompson**. 2010. Scale Effects on Terrain Attribute Calculation and their Use as Environmental Covariates for Digital Soil Mapping. p. 55-66. In J.L. Boettinger et al. (eds.) *Digital Soil Mapping: Bridging Research, Environmental Application, and Operation*. Springer, New York.
11. Hempel, J.W, R.D. Hammer, A.C. Moore, J.C. Bell, **J.A. Thompson**, and M.L. Golden. 2008. Challenges to digital soil mapping. p. 81-90. In A.E. Hartemink, A.B. McBratney, and M.L. Mendonça-Santos (eds.), *Digital soil mapping with limited data*. Springer, New York.

Conference and Symposia Proceedings Papers

1. Helmick, J.L., T.W. Nauman, and **J.A. Thompson**. 2013. Developing and assessing prediction intervals for soil property maps derived from legacy databases. *Proceedings of the GlobalSoilMap Conference 2013*, Orleans, France, 7-9 October, 2013. [CD-ROM]
2. Hempel, J., S. DeGloria, W. Fraser, X. Geng, A.C. Moore, S. Smith, **J.A. Thompson**, A. Waddell, and T. D'Avello. 2010. GlobalSoilMap.net: Canada-United States Digital Soil Mapping Case Study. *Proceedings of the 19th World Congress of Soil Science*, Brisbane, Australia, 1-6 August, 2010. [Available at: <http://www.iuss.org/19th%20WCSS/Symposium/pdf/1590.pdf>]
3. Olson, C., S.W. Waltman, L.T. West, A.C. Moore, and **J.A. Thompson**. 2010. Preparing a Soil Organic Carbon Inventory for the United States Using Soil Surveys and Site Measurements: Why Carbon Stocks at Depth Are Important. *Proceedings of the 19th World Congress of Soil Science*, Brisbane, Australia, 1-6 August, 2010. [Available at: <http://www.iuss.org/19th%20WCSS/Symposium/pdf/0111.pdf>]

4. **Thompson, J.A.**, T. Prescott, A.C. Moore, J. Bell, D. Kautz, J. Hempel, S.W. Waltman, and C.H. Perry. 2010. Regional approach to soil property mapping using legacy data and spatial disaggregation techniques. Proceedings of the 19th World Congress of Soil Science, Brisbane, Australia, 1-6 August, 2010. [Available at: <http://www.iuss.org/19th%20WCSS/Symposium/pdf/2024.pdf>]
5. **Thompson, J.A.**, and M. Levin. 2010. Preparing Professional Pedologists through Field Practicums and Career Experience. Proceedings of the 19th World Congress of Soil Science, Brisbane, Australia, 1-6 August, 2010. [Available at: <http://www.iuss.org/19th%20WCSS/Symposium/pdf/2501.pdf>]
6. **Thompson, J.A.**, T.M. Prescott, A.C. Moore, J.W. Bell, D. Kautz, J. Hempel, S.W. Waltman, and C.H. Perry. 2010. Regional Approach to Soil Property Mapping using Legacy Data and Spatial Disaggregation Techniques. Proceedings of the 4th Global Workshop on Digital Soil Mapping, Rome, Italy, May 24-26, 2010. [CD-ROM]
7. Hempel, J., S. DeGloria, W. Fraser, X. Geng, A.C. Moore, S. Smith, **J.A. Thompson**, A. Waddell, and T. D'Avello. 2010. GlobalSoilMap.net: Canada-United States Digital Soil Mapping Case Study. Proceedings of the 4th Global Workshop on Digital Soil Mapping, Rome, Italy, May 24-26, 2010. [CD-ROM]
8. MacMillan B., et al. 2010. A Proof of Concept Project to Apply and Compare Alternative DSM Methods in Several Test Areas. Proceedings of the 4th Global Workshop on Digital Soil Mapping, Rome, Italy, May 24-26, 2010. [CD-ROM]
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Abstracts

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88. **Thompson, J.A.**, A.C. Moore, R.E. Austin, and E.M. Pena-Yewtukhiw. 2006. Multiscale Terrain Analysis to Improve Landscape Characterization and Soil Mapping. Invited oral presentation at the 2006 World Congress of Soil Science, Philadelphia, PA, July 9-15, 2006.
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91. Pena-Yewtukhiw, E.M., **J.A. Thompson**, and J.H. Grove. 2006. Short, Intermediate and Large Scale Variance in Selected Properties of Crider Soils in Kentucky's Pennyroyal Physiographic Region. Poster presentation at the 2006 American Society of Agronomy Annual Meetings, Indianapolis, IN, November 12-16, 2006.
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121. Coyne, M.S. and **J.A. Thompson**. 2000. Stratification of N transformations above a fragipans. Poster presentation at the 2000 American Society of Agronomy Annual Meetings, Minneapolis, MN.
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127. **Thompson, J.A.** and J.C. Bell. 1997. Microbial activity season in Minnesota soils: Interactions between soil saturation and temperature. Oral presentation at the 1997 American Society of Agronomy Annual Meetings, Anaheim, CA.
128. **Thompson, J.A.**, J.C. Bell, and C.A. Butler. 1997. Digital elevation model resolution: Effects on terrain attribute calculation and quantitative soil-landscape modeling. Oral presentation at Pedometrics '97, Madison, WI.
129. **Thompson, J.A.** and J.C. Bell. 1996. Hydrology and hydromorphic soil properties of a Mollisol catena in southeastern Minnesota. Oral presentation at the 1996 American Society of Agronomy Annual Meetings, Indianapolis, IN.
130. **Thompson, J.A.** and J.C. Bell. 1995. Pedogenesis, morphology, and identification of hydric soil conditions in Mollisol hydrosequences in Minnesota. Oral presentation at the 1995 American Society of Agronomy Annual Meetings, St. Louis, MO, Oct. 29-Nov. 2, 1995.

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134. Butler, C.A., J.C. Bell, and **J.A. Thompson**. 1992. The effect of digital elevation model resolution on landform mapping in Minnesota landscapes. Poster presented at the 1992 American Society of Agronomy Annual Meetings, Minneapolis, MN, Nov. 1-6, 1992.

Other Publications

1. Rhoades, C.C., R.K. Kolka, D.H. Graves, J.M. Ringe, J.W. Stringer and **J.A. Thompson**. 2001. Carbon sequestration on surface mine lands. Proceedings of the National Energy Technology Laboratory Conference on Regional Partnerships in Terrestrial Carbon Sequestration. Nov. 6-7, 2001, Lexington, KY. Online only (http://www.netl.doe.gov/publications/proceedings/01/carbon_seq_terr/graves.pdf).
2. **Presentations (see also Publications: Abstracts and Proceedings)**
 1. **Thompson, J.A.**, S.W. Waltman, K. Donaldson, M. Sharma, F. Lafone, M. Wilson, and Skye Wills. 2017. CarbonScapes—A National Look at Carbon Landscapes and Meeting Place for the USDA Carbon Inventory and Modeling Community. Oral presentation at the 2017 WV Soils Partnership Work Planning Conference, Sutton, WV, December 11, 2017.
 2. **Thompson, J.A.** 2014. Top 10 Things Everyone Should Know About Soils and Landscapes in West Virginia. Presented to the Division of Plant and Soil Sciences at the West Virginia University, Morgantown, WV, February 11 and March 18, 2014.
 3. **Thompson, J.A.** 2013. Predictive Soil Mapping and Data Mining: A Scalable Framework for Soil Geographic Knowledge. Presented to the Department of Geography at the University of Kentucky, Lexington, KY, November 8, 2013.
 4. Morgan, C.L.S., and **J.A. Thompson**. 2013. Gamma-Ray Spectrometry. Oral presentation at the 2013 National Cooperative Soil Survey Conference, Annapolis, MD, June 16-20, 2013.
 5. Waltman, S.W., and **J.A. Thompson**. 2013. Soil Landscapes of the US: A Scalable Framework for Soil Geographic Knowledge. Presented to the Department of Agronomy at Purdue University, West Lafayette, IN, January 14, 2013.
 6. **Thompson, J.A.** 2012. Mapping Soil Organic Carbon at a Continental Scale: GlobalSoilMap. Oral presentation at the 2012 Northeast Regional Cooperative Soil Survey Conference, Orono, ME, June 18-21, 2012.
 7. Connolly, S.J., and **J.A. Thompson**. 2011. Interpretations for Mercury Bioavailability in Soils. Oral presentation at the 2011 National Cooperative Soil Survey Conference, Asheville, NC, May 22-26, 2011.
 8. **Thompson, J.A.** 2006. Effects of Data Resolution and Data Quality on Computed Values for Terrain Characteristics. Oral presentation at the 2006 Northeast Regional Cooperative Soil Survey Conference, Bordentown, NJ, May 21-25, 2006.

9. **Thompson, J.A.**, S.W. Waltman, J. Sencindiver, D.K. Bhumbla, and S. Carpenter. 2006. Mapping Soil Phosphorus Sorption Capacity in West Virginia. Oral presentation at the 2006 Northeast Regional Cooperative Soil Survey Conference, Bordentown, NJ, May 21-25, 2006.
10. Crouse, D.A., J. Jenkins, and **J.A. Thompson**. Education & Technology Diffusion—An Open Courseware Model. 2002. Oral presentation at the 2002 North Central Region Working Group for Site Specific Agriculture (NCR 180) Conference. Penn State University, State College, PA, Jan. 4-5, 2002.
11. **Thompson, J.A.** and R.K. Kolka. 1999. Soil carbon storage estimation in central hardwood forest watersheds using quantitative soil-landscape modeling. Poster presentation at the 1999 UK GIS Day Conference, University of Kentucky, Lexington, KY, Nov. 19, 1999.
12. **Thompson, J.A.**, A.D. Karathanasis, Y.L. Thompson, and C.D. Barton. 1999. Hydric conditions and indicators of hydric soils in seasonally-saturated fragipan soils of western Kentucky. Poster and oral presentation at the 1999 Wet Soils Monitoring Meeting, Indianapolis, IN, August 16-19, 1999.