

Curriculum Vitae: Travis Nauman

West Virginia University
Plant and Soil Sciences Division
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Education:

PhD Candidate, Plant and Soil Sciences
M.S. Soil and Water Science
Geographic Info. Science Certification
B.S. Environmental Science

West Va. Univ. Morgantown, WV, presently.
Univ. of Arizona, Tucson, Arizona. May 2009.
Univ. of Arizona, Tucson, Arizona. Dec. 2008.
Univ. of Arizona, Tucson, Arizona. May 2006.

Professional Experience:

08/2011 – present Pathways Student Trainee Soil Scientist, USDA - Natural Resources Conservation Service – National Soil Survey Center – Geospatial Research Unit, Morgantown, WV
10/2010 – 08/2011 Natural Resource Specialist, USDA - Natural Resources Conservation Service, Holbrook, AZ
02/2009 – 08/2011 CEO, Natural Resource, Soil, and GIS Specialist, Nauman Geospatial, Tucson and Flagstaff, Arizona
06/2006 – 05/2009 Research Assistant for Soil Resources, Sonoran Institute, National Park Service Inventory and Monitoring Program Partnership, Tucson, AZ
05/2005 – 08/2005 Research Intern & Apacheria Research Fellow, Audubon Society Appleton-Whittel Research Ranch, Elgin, AZ

Teaching

Forest Soils, spring 2015, AGRN 493D, Developing a special listings course at West Virginia University.

Publications and Technical Reports

Nauman T.W., Thompson J.T., Teets J., Dilliplane T., Bell J., Connolly S.J., Liebermann H.J., Yoast K. 2015. Ghosts of the forest: mapping pedomemory to guide forest restoration. *Geoderma* 147-148.

Nauman, T.W., Thompson, J.A., Rasmussen, C.R. 2014. Semi-Automated Disaggregation of a Conventional Soil Map using Knowledge Driven Data Mining and Random Forests in the Sonoran Desert, USA. *Photogrammetric Engineering and Remote Sensing*, 80(4): pp. 353–366.

Nauman, T.W. and Thompson, J.A., 2014. Semi-automated disaggregation of conventional soil maps using knowledge driven data mining and classification trees. *Geoderma*, 213(0): 385-399.

Helmick, J.L., Nauman, T.W. Thompson, J.A. Developing and assessing prediction intervals for soil property maps derived from legacy databases. *GlobalSoilMap Conference to be held in Orleans, France. 7 to 9 October 2013 - Awarded best presentation in conference.*

Gwilliam, E. L., K. Raymond, S. Buckley, A. Hubbard, C. McIntyre, and T. Nauman. 2013. Streams monitoring at Montezuma Castle and Tuzigoot national monuments: status report for water years 2009–2011. *Natural Resource Technical Report. National Park Service, Fort Collins, Colorado.*

Nauman, T., Thompson, J.A., Odgers, N. and Libohova, Z., 2012. Fuzzy Disaggregation of Conventional Soil Maps using Database Knowledge Extraction to Produce Soil Property Maps. In: B. Minasny, B. Malone and A. McBratney (Editors), *Digital Soil Assessments and Beyond: 5th Global Workshop on Digital Soil Mapping, Sydney, Australia.*

Thompson, J.A., Nauman, T., Odgers, N., Libohova, Z. and Hempel, J., 2012. Harmonization of Legacy Soil Maps in North America: Status, Trends, and Implications for Digital Soil Mapping Efforts. In: A. McBratney, B. Minasny and B. Malone (Editors), *The 5th Global Workshop on Digital Soil Mapping. Digital Soil Assessments and Beyond, Sydney, Australia.*

- Nauman, Travis. 2010. "Erosion Assessment for Montezuma Castle and Tuzigoot National Monuments." Ed. Alice Wondrak Biel. NPS USDO Natural Resource Technical Report NPS/SODN/NRTR-2010/281.
- Nauman, Travis. 2010. "ZT Vineyard Site 16: Soils and Erosion Report, Huailai, China": Report and maps documenting soil mapping and erosion potential completed for vineyard development planning.
- Nauman, Travis. 2010. "Erosion Assessment of Coronado National Memorial, Arizona": Report and Maps documenting current erosion issues in Memorial.
- Nauman, Travis. 2010. "Soil Inventory Results and Relationships to Vegetation Monitoring Data at Casa Grande Ruins National Monument, Arizona": Report documenting results of soil sampling done at the initial visit to soil-vegetation monitoring plots in monument.
- Nauman, Travis. 2010. "Soil Inventory Results and Relationships to Vegetation Monitoring Data at Gila Cliff Dwellings National Monument, Arizona": Report documenting results of soil sampling done at the initial visit to soil-vegetation monitoring plots in monument.
- Nauman, Travis. 2010. "Soil Inventory Results and Relationships to Vegetation Monitoring Data at Tumacacori National Historic Park, Arizona": Report documenting results of soil sampling done at the initial visit to soil-vegetation monitoring plots in park.
- Nauman, Travis. 2010. "Erosion Assessment and Mitigation Plan for Apache Spring Watershed, Fort Bowie National Historic Site, Arizona": Report and Maps from field work and erosion control recommendations at Site.
- Nauman, Travis. 2010. "Montezuma Castle National Monument Stream Channel Survey, 2010: Field Summary": Survey dataset with field report documentation.
- Nauman, Travis. 2009. "Aztec Ruins Soil and Hydrology Analysis": Report documenting organization and analysis of soil sample and water table data for potential threat to ruins.
- Nauman, Travis. 2009. "Digital Soil Subgroup Map of Selected Areas of the Barry M. Goldwater Range", Report documenting predictive soil mapping for Arizona Game and Fish.
- Hubbard, J. Andrew, Cheryl L. McIntyre, Sarah E. Studd, Travis Nauman. 2008. "Terrestrial Vegetation and Soil Monitoring Protocol and Standard Operating Procedures for the Sonoran Desert Network" Natural Resource Technical Report NPS/SODN/NRTR-2008.
- Nauman, Travis. 2008. "Erosion Assessment of Cultural Resource Sites at Tonto National Monument: Water Erosion Prediction Project (WEPP) Simulations" Final Report SI-38. Sonoran Institute.
- Nauman, Travis. 2007. "Water Erosion Prediction Project (WEPP) Use for Assessment of Cultural Site Water Erosion Risk at Tonto National Monument, Arizona." DSCESU Cooperative Agreement: H1200050003. Final Report Erosion Potential on Cultural Resource Sites (SI-31). Sonoran Institute.
- Nauman, Travis. 2006. Restoration of Big Sacaton (*Sporobolus wrightii*): Impact of basic soil properties on success of seedling establishment on the Appleton-Whittel Audubon Research Ranch (ARR). Internal ARR Technical Report.

Awards:

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| 2013 | 2nd Place Poster, Pedology Division, Soil Science Society of America (SSSA) Annual Meetings, Tampa, FL. \$100 |
| 2013 | Best Oral Presentation Paper - "Developing and assessing prediction intervals for soil property maps derived from legacy databases." GlobalSoilMap Conference 2013. Orleans, France. Author on paper – did not present. |
| 2007 | Institute for the Study of Planet Earth Travel Grant for SSSA meetings 2007, New Orleans, LA. \$400. |
| 2005-2006 | Apacheria Research Fellowship for: Soil Properties in Sacaton (<i>Sporobolus wrightii</i>) Restoration. Awarded both Fall 2005 and Spring 2006. \$2000. |
| 2005 | 3rd Place at U.S. National Collegiate Soil Judging Competition. |