John Toland Van Stan, II, Ph.D.
Department of Geology & Geography
Georgia Southern University
1113 Herty Hall, 68 Georgia Ave.
Statesboro, Georgia 30460-8149
Telephone: (912) 478-8040
Fax: (912) 478-0668

GSU Forest Ecohydrological Research Lab

CURRICULUM VITAE

EDUCATION

University of Delaware, Newark, DE — **May 2012**
Ph.D. in Geography

University of Delaware, Newark, DE — **Jan 2009**
M.S. in Geography

Johns Hopkins University, Baltimore, MD — **May 2007**
M.S. in Environmental Science

University of Delaware, Newark, DE
B.A. in English Literature — **May 2006**
B.S. in Environmental Science — **May 2005**

ACADEMIC & CONSULTANT APPOINTMENTS

Georgia Southern University, Department of Geology & Geography, Statesboro, GA
Associate Professor, 2017-current
Assistant Professor, 2012-2017

University of Delaware, Department of Geography, Newark, DE
Doctoral Research Assistant, 2009-2012

Tetra Tech, NUS Inc., Newark, DE
Environmental Scientist III, 2007-2010

KCI, Technologies, Inc., Newark, DE
Environmental Scientist II, 2004-2007

Batta Environmental Associates, Inc., Newark, DE
Environmental Technician, 2003-2004

GRANTS AWARDED

2015-2018, National Science Foundation, Hydrological Sciences
RUI: Measurement and modeling of rainfall interception loss from Georgia Southern University's urban forests. (HS-1518726). Role: PI (Project total: $214,572).

2015-2017, Georgia Department of Natural Resources, Environmental Protection Division
Long-term ecological study of the Ogeechee River Flood Plain (EPD-WQ-5419). Role: Co-I (Project total: $1,067,491; Project total to Georgia Southern University: $766,000).

2014-2015, Georgia Department of Natural Resources, Coastal Resources Division
Identification of the sources of pathogens in wetland sediments and their influence on beach water quality. Role: Co-I (Project total: $233,250).

2013, National Center for Atmospheric Research – Research Application Laboratory
Installation of direct *in situ* tree water storage monitoring at Niwot Ridge Long Term Ecological Research site. Role: PI/Visiting Scientist (Project total: $5,000).

2012, German Academic Exchange Service (DAAD)
Influence of species-specific bark structure on the spatio-temporal variability of net precipitation to forest soils (A/12/72418). Role: PI (Project total: €1,850).

2011-2012, Starrett Foundation & UD Office of Economic Innovation and Partnerships
Proposal for the mechanical and electrical design and fabrication of a second generation LaserBark automated tree measurement system. Role: PI (Project total: $40,000).

2011, The Pennsylvania State University-National Science Foundation Critical Zone Observatory
International Student Travel, Direct investigation of canopy rainfall interception processes via mechanical displacement technology. Role: PI (Project total: $8,900).

2010-2012, National Science Foundation, Geography & Spatial Sciences
Doctoral Dissertation Research: Inter- and intrastorm variability of dissolved organic carbon and nitrogen fluxes from a mid-latitude broadleaved deciduous forest canopy (GSS-1003047). Role: Co-PI (Project total: $12,000).

2009-2011, Starrett Foundation & UD Office of Economic Innovation and Partnerships
Proposal for the design & testing of the LaserBark prototype instrument at Bucktoe Creek Natural Preserve. Role: PI (Project total: $11,000).

PEER-REVIEWED PUBLICATIONS
Student coauthors in red & international coauthors' countries are provided parenthetically

In press.

J.T. Van Stan, Z. Norman, A. Meghoo, J. Friesen (Germany), A. Hildebrandt (Germany), J-F. Côté (Canada), S.J. Underwood, G. Maldonado. Edge-to-stem variability in wet-canopy evaporation from an urban tree row. *Boundary-Layer Meteorology*, doi: 10.1007/s10546-017-0277-7.

J.T. Van Stan, A.M.J. Coenders-Gerrits (Netherlands), M. Dibble, P. Bogeholz, Z. Norman. Effects of phenology and meteorological disturbance on litter rainfall interception for a *Pinus elliottii* stand in the Southeastern US. *Hydrological Processes*, doi:?.

2017.

S.M.M. Sadeghi (Iran), **J.T. Van Stan**, T.G. Pypker (Canada), J. Friesen (Germany). Canopy hydrometeorological dynamics across a chronosequence of a globally invasive species, *Ailanthus altissima* (Mill., tree of heaven). *Agricultural and Forest Meteorology*, 240-241: 10-17, doi: 10.1016/j.agrformet.2017.03.017.

E.D. Gutmann, **J.T. Van Stan**, J. Friesen (Germany), D.P. Aubrey, J. Lundquist. Observed compression of in situ tree stems during freezing. *Agricultural and Forest Meteorology*, 243: 19-24, doi: 10.1016/j.agrformet.2017.05.004.

T. Pypker (Canada), M.H. Unsworth, **J.T. Van Stan**, B.J. Bond. The absorption and evaporation of water vapor by epiphytes in an old-growth Douglas-fir forest during the seasonal summer dry season: Implications for the canopy energy budget. *Ecohydrology*, 10: e1801, doi: 10.1002/eco.1801.

A. Stubbins, L.M. Silva (Brazil), T. Dittmar (Germany), **J.T. Van Stan**. Molecular and optical properties of tree-derived dissolved organic matter in throughfall and stemflow from live oaks and eastern red cedar. Frontiers Earth Sciences, 5: 22, doi: 10.3389/feart.2017.00022

C.M. Siegert, D.F. Levia, D.J. Leathers, **J.T. Van Stan**, M.J. Mitchell. Do storm synoptic patterns affect biogeochemical fluxes from temperate deciduous forest canopies? *Biogeochemistry*, 132: 273-292, doi: 10.1007/s105333-017-0300-6.

S. Yanoviak, C. Silveri, A.Y. Stark, **J.T. Van Stan**, D.F. Levia. Surface roughness affects the running speed of tropical canopy ants. *Biotropica*, 49: 92-100, doi: 10.1111/btp.12349.

2016.

J.T. Van Stan, Hydrology. In: *Oxford Bibliographies in Geography* (Ed., B. Warf), New York, USA: Oxford University Press, doi: 10.1093/OBO/9780199874002-0119.

J.T. Van Stan, T.E. Gay, E.S. Lewis. Use of Multiple Correspondence Analysis (MCA) to identify interactive meteorological conditions affecting relative throughfall. *Journal of Hydrology*, 533: 452-460, doi:10.1016/j.hydrol.2015.12.039.

J.T. Van Stan, E.D. Gutmann, E.S. Lewis, T.E. Gay. Modeling rainfall interception loss for an epiphyte-laden *Quercus virginiana* forest using reformulated static and variable storage Gash analytical models. *Journal of Hydrometeorology*, 17: 1985-1997, doi: 10.1175/JHM-D-16-0046.1.

J.T. Van Stan, E.S. Lewis, A. Hildebrandt (Germany), C. Rebmann (Germany), J. Friesen (Germany). Impact of interacting bark structure and rainfall conditions on stemflow variability in a temperate beech-oak forest, Central Germany. *Hydrological Sciences Journal*, 61: 2071-2083, doi: 10.1080/02626667.2015.1083104.

L.D. Moore, **J.T. Van Stan**, T.E. Gay, C. Rosier, T. Wu. Alteration of soil chitinolytic bacterial and ammonia oxidizing archaeal community diversity by rainwater redistribution in an epiphyte-laden *Quercus virginiana* canopy. *Soil Biology and Biochemistry*, 100: 33-41, doi: 10.1016/j.soilbio.2016.05.016.

C. Rosier, D.F. Levia, **J.T. Van Stan**, A. Aufdenkampe, J. Kan. Seasonal dynamics of soil microbial community structure within the proximal area of tree boles: possible influence of stemflow. *European Journal of Soil Biology*, 73: 108-118, doi: 10.1016/j.ejsobi.2016.02.003.

S.M.M. Sadeghi (Iran), P. Attarod (Iran), **J.T. Van Stan**, T.G. Pypker (Canada). The importance of considering rainfall partitioning in afforestation initiatives in semiarid climates: A comparison of common planted tree species in Tehran, Iran. *Science of the Total Environment*, 568: 845-855, doi: 10.1016/j.scitotenv.2016.06.048.

2015.

J.T. Van Stan, T. Pypker (Canada). A review and evaluation of forest canopy epiphyte roles in the partitioning and chemical alteration of precipitation. *Science of the Total Environment*, 536: 813-824, doi: 10.1016/j.scitotenv.2015.07.134.

J.T. Van Stan, A. Stubbins, T. Bittar, J.S. Reichard, K.A. Wright, R.B. Jenkins. *Tillandsia usneoides* (L.) L. (Spanish moss) water storage and leachate characteristics from two maritime oak forest settings. *Ecohydrology*, 8: 988-1004, doi: 10.1002/eco.1549.

J.T. Van Stan, D.F. Levia, R.B. Jenkins. Forest canopy interception loss across temporal scales: implications for urban greening initiatives. *The Professional Geographer*, 67: 41-51, doi: 10.1080/00330124.2014.888628.

T.E. Gay, **J.T. Van Stan**, L.D. Moore, E.S. Lewis, J.S. Reichard. Throughfall alterations by degree of *Tillandsia usneoides* cover in a southeastern US *Quercus virginiana* forest. *Canadian Journal of Forest Research*, 45: 1688-1698, doi: 10.1139/cjfr-2015-0233.

C. Rosier, **J.T. Van Stan**, L.D. Moore, J.O.S. Schrom, T. Wu, J.S. Reichard, J-J. Kan. Forest canopy structural controls over throughfall affect soil microbial community structure in an epiphyte-laden maritime oak stand. *Ecohydrology*, 8: 1459-1470, doi: 10.1002/eco.1595.

J. Friesen (Germany), J. Lundquist, **J.T. Van Stan**. Evolution of forest precipitation water storage measurement methods. *Hydrological Processes*, 29: 2504-2520, doi: 10.1002/hyp.10376.

S.M.M. Sadeghi (Iran), P. Attarod (Iran), **J.T. Van Stan**, T.G. Pypker (Canada), D. Dunkerley (Australia). Efficiency of the reformulated Gash's interception model in semiarid afforestations. *Agric. Forest Meteorology* 201:76-85, doi: 10.1016/j.agformet.2014.10.006

D.F. Levia, A.N. Shiklomanov, **J.T. Van Stan**, C.E. Scheick, S.P. Inamdar, M.J. Mitchell, P.J. McHale. Calcium and aluminum cycling in a temperate broadleaved deciduous forest of the eastern United States: relative impacts of tree species, canopy state, and flux type. *Environmental Monitoring & Assessment*, 187: 458, doi: 10.1007/s10661-015-4675-3.

C.R. Rosier, L.D. Moore, T. Wu, **J.T. Van Stan**. Forest canopy precipitation partitioning: An important plant trait influencing the spatial structure of the symbiotic soil microbial community. Chapter 10. In: *Plant Microbe Interactions*. Advances in Botanical Research, vol. 75. Ed: Bais & Sherrier. Oxford, England: Elsevier, doi: 10.1016/bs.abr.2015.09.005.

P. Abbasian (Iran), P. Attarod (Iran), S.M.M. Sadeghi (Iran), **J.T. Van Stan**, S.M. Hojjati (Iran). Throughfall nutrients in a degraded indigenous *Fagus orientalis* forest and a *Picea abies* plantation in the North of Iran. *Forest Systems*, 24: e035, doi: 10.5424/fs/2015243-06764.

2014.

J.T. Van Stan, J.H. Van Stan, D.F. Levia. Meteorological influences on stemflow generation across diameter size classes of two morphologically distinct deciduous species. *International Journal of Biometeorology*, 58:2059-2069, doi:10.1007/s00484-014-0807-7.

D.F. Legates, D.F. Levia, **J.T. Van Stan**, M. Velasco (Mexico). Using wavelet analysis to examine bark microrelief. *Trees–Structure & Function*, 28: 413-425, doi:10.1007/s00468-013-0959-9.

2013.

J.T. Van Stan, K.A. Martin, J. Friesen (Germany), M.T. Jarvis, J.D. Lundquist, & D.F. Levia. Evaluation of an instrumental method to reduce error in canopy water storage estimates via mechanical displacement. *Water Resources Research*, 49: 54-63, doi: 10.1029/2012WR012666.

K.A. Martin, **J.T. Van Stan**, S.E. Dickerson-Lange, J.A. Lutz, J.W. Berman, R. Gersonde, J.D. Lundquist. Development and testing of a snow interceptometer to quantify canopy water storage and interception processes in the rain/snow transition zone of the North Cascades, Washington, USA. *Water Resources Research*, 49: 3242-3256, doi: 10.1002/wrcr.20271.

S. Inamdar, G. Dhillon, S. Singh, S. Dutta (India), D. Levia, D. Scott, M. Mitchell, **J.T. Van Stan**, P. McHale. Temporal variation in end-member chemistry and its influence on runoff mixing patterns in a forested, Piedmont catchment. *Water Resources Research*, 49: 1828-1844, doi: 10.1002/wrcr.20158.

2012.

J.T. Van Stan, D.F. Levia, S.P. Inamdar, M. Lepori-Bui, M.J. Mitchell. The effects of phenoseason and storm characteristics on throughfall solute washoff and leaching dynamics

from a temperate deciduous forest canopy. *Science of the Total Environment*, 430: 48-58, doi: 10.1016/j.scitotenv.2012.04.060.

J.T. Van Stan. Controls and dynamics of canopy-derived dissolved organic matter from co-dominant broadleaved deciduous canopies to the soil of a temperate catchment in the northeastern United States. *Publications in Climatology*, 64: 1-96.

D.F. Levia, **J.T. Van Stan**, S.P. Inamdar, M.T. Jarvis, M.J. Mitchell, S.M. Mage, C.E. Scheick, P.J. McHale. Stemflow and dissolved organic carbon cycling: temporal variability in concentration, flux, and UV-vis spectral metrics in a temperate broadleaved deciduous forest in the eastern USA. *Canadian Journal of Forest Research*, 42: 207-216, doi: 10.1139/x11-173.

2011.

J.T. Van Stan, M.T. Jarvis, D.F. Levia, J. Friesen (Germany). Technical note: Instrumental method for reducing error in compression-derived measurements of rainfall interception for individual trees. *Hydrological Sci. J.*, 56: 1061-1066, doi: 10.1080/02626667.2011.590811.

J.T. Van Stan, C.M. Siegert, D.F. Levia, C.E. Scheick. Effects of wind-driven rainfall on stemflow generation between two codominant tree species with differing crown characteristics. *Agricultural and Forest Meteorology*, 151: 1277-1286, doi: 10.1016/j.agrformet.2011.05.008.

S-I. Onodera (Japan), **J.T. Van Stan**. Effect of forest fires on hydrology and biogeochemistry of watersheds. Chapter 30. In: *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. Ecological Studies Series No. 216. Levia, D.F., Carlyle-Moses, D.E. and Tanaka, T. (Eds.), Heidelberg, Germany: Springer-Verlag, doi: 10.1007/978-94-007-1363-5_30.

D.F. Levia, **J.T. Van Stan**, C.M. Siegert, S.P. Inamdar, M.J. Mitchell, S.M. Mage, P.J. McHale. Atmospheric deposition and corresponding variability of stemflow chemistry across temporal scales in a mid-Atlantic broadleaved deciduous forest canopy. *Atmospheric Environment*, 45: 3046-3054, doi: 10.1016/j.atmosenv.2011.03.022.

T.G. Pypker (Canada), D.F. Levia, J. Staelens (Belgium), **J.T. Van Stan**. Canopy structure in relation to hydrological and biogeochemical fluxes. Chapter 18. In: *Forest Hydrology and Biogeochemistry: Synthesis of Past Research and Future Directions*. Ecological Studies Series No. 216. Levia, D.F., Carlyle-Moses, D.E. and Tanaka, T. (Eds.), Heidelberg, Germany: Springer-Verlag, doi: 10.1007/978-94-007-1363-5_18.

2010.

J.T. Van Stan, D.F. Levia. Inter- and intraspecific variation in stemflow production for *Fagus grandifolia* and *Liriodendron tulipifera* in the northeastern United States. *Ecohydrology*, 3: 11-19, doi: 10.1002/eco.83.

J.T. Van Stan, M.T. Jarvis, D.F. Levia. An automated instrument for the quantification of bark microrelief. *IEEE Transactions on Instrumentation and Measurement*, 59: 491-493, doi: 10.1109/TIM.2009.2031338.

D.F. Levia, **J.T. Van Stan**, S.M Mage, P.K. Hauske. Spatio-temporal variability of stemflow volume in a beech-yellow poplar forest in relation to tree species and size. *Journal of Hydrology*, 380: 112-120, doi:10.1016/j.jhydrol.2009.10.028.

PRESENTATIONS

(student coauthors in red, *invited, †Outstanding student presentation award)

Attarod P. (Iran), Q. Tang (China), **J.T. Van Stan**, X. Liu (China). How will climate change affect the throughfall of several forest areas in Iran? Third Pole Science Summit: CETES-CSTP-HKT Joint Conference. July, 2017. Kunming, China.

Van Stan J.T., P. Porada (Sweden), A. Kleidon (Germany). Global estimate of lichen and bryophytes to forest rainfall interception. European Geosciences Union General Assembly. April, 2017. Vienna, Austria.

Stubbins A., S. Wagner, T. Dittmar (Germany), **J.T. Van Stan**. Tree-DOM: DOM quality from the headwaters of the aquatic carbon cycle. Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. February, 2017. Honolulu, HI, USA.

Van Stan J.T., S.M.M. Sadeghi (Iran), T.G. Pypker (Canada), J. Friesen (Germany). Chronological changes in canopy hydrometeorological dynamics may aid invasion of a globally invasive species (*Ailanthus altissima* Mill. tree of heaven). American Geophysical Union Fall Meeting. December, 2016. San Francisco, CA, USA.

†Pound P., **J.T. Van Stan**, A. Whitetree, L.D. Moore, T. Bittar. Bacterial flux by net precipitation from the phyllosphere to the forest floor. American Geophysical Union Fall Meeting. December, 2016. San Francisco, CA, USA.

Dibble M., **J.T. Van Stan**, P. Bogeholz, Z. Norman, A.M.J. Coenders-Gerrits (The Netherlands). Phenological impacts on litter interception in a *Pinus elliottii* stand, Southeastern US. American Geophysical Union Fall Meeting. December, 2016. San Francisco, CA, USA.

Bogeholz P., **J.T. Van Stan**, A. Hildebrandt (Germany), J. Friesen (Germany), M. Dibble, Z. Norman. Spatiotemporal throughfall patterns beneath an urban tree row. American Geophysical Union Fall Meeting. December, 2016. San Francisco, CA, USA.

Van Stan J.T., T.G. Pypker (Canada). A review and evaluation of forest canopy epiphyte roles in the partitioning and chemical alteration of precipitation. American Geophysical Union Fall Meeting. December, 2015. San Francisco, CA, USA.

Lewis E.S., **J.T. Van Stan**, T.E. Gay. Use of multiple correspondence analysis (MCA) to identify interactive meteorological conditions affecting throughfall. American Geophysical Union Fall Meeting. December, 2015. San Francisco, CA, USA.

***Van Stan J.T.**, C.L. Rosier, L.D. Moore, T. Wu, J. Kan. Can throughfall connect forest canopy architecture to soil microbial community structure & function? Findings from an epiphyte-laden subtropical forest. Joint Max Planck Institute of Biogeochemistry-Friedrich Schiller University AquaDiva Spring 2015 Colloquium Series. July, 2015. Jena, Germany.

***Van Stan J.T.**, C.L. Rosier, L.D. Moore, T.E. Gay, J. Reichard, T. Wu, J. Kan. Throughfall-mediated alterations to soil microbial community structure in a forest plot of homogenous soil texture, litter, and plant species composition. European Geosciences Union General Assembly. April, 2015. Vienna, Austria.

***Van Stan J.T.** Current state and challenges of monitoring tree canopy water storage. Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI) Cyberseminar Series on *Evapotranspiration: Frontiers in measurement, modeling and management from the leaf to the landscape*. April, 2015. Video link: http://cuahsi.adobeconnect.com/p8syitbjxag/

***Van Stan J.T.** Hydrological and biogeochemical effects of rainfall partitioning by forest canopies. Joseph W. Jones Ecological Research Center's seminar series. February, 2015. Newton, GA, USA.

Van Stan J.T., C.L. Rosier, J.O.S. Schrom, T. Wu, J.S. Reichard, J. Kan. Forest canopy structural controls over throughfall affect soil microbial community structure in an epiphyte-laden maritime oak stand. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Gay T.E., **J.T. Van Stan**, J.S. Reichard, L.D. Moore, E.S. Lewis. Alterations to throughfall water and solute flux by *Tillandsia usneoides* L. (Spanish moss) cover in a maritime live oak forest. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Moore L.D., **J.T. Van Stan**, C.L. Rosier, T.E. Gay, T. Wu. Canopy structural alterations to nitrogen functions of the soil microbial community in a *Quercus virginiana* forest. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Friesen J. (Germany), J.D. Lundquist, **J.T. Van Stan**. Evolution of forest precipitation water storage monitoring methodologies. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Rosier C.L., D.F. Levia, **J.T. Van Stan**, J. Kan. Seasonal dynamics of soil microbial community structure in the proximal area of tree boles: possible influence of stemflow. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Siegert C.M., D.F. Levia, D.J. Leathers, **J.T. Van Stan**, M.J. Mitchell. Identifying patterns of forest hydrologic and biogeochemical fluxes using weather map classification in a Mid-Atlantic deciduous forest. American Geophysical Union Fall Meeting. December, 2014. San Francisco, CA, USA.

Sadeghi S.M.M. (Iran), P. Attarod (Iran), T.G. Pypker (Canada), D. Dunkerley (Australia), **J.T. Van Stan**. Estimating canopy water storage capacity by *Cupressus arizonica* in dryland plantation. The 4th International Conference on Environmental Challenges & Dendrochronology. May, 2014. Tehran, Iran.

Sadeghi S.M.M. (Iran), P. Attarod (Iran), T.G. Pypker (Canada), D. Dunkerley (Australia), **J.T. Van Stan**. Measurement of rainfall partitioning in an afforested landscape: The Chitgar Forest Park, North of Iran. The 4th International Conference on Environmental Challenges & Dendrochronology. May, 2014. Tehran, Iran.

Lewis E.S., **J.T. Van Stan**, A. Hildebrandt (Germany), J. Friesen (Germany). Using *in situ* bark microrelief observations to explain intra- and interspecies variability of stemflow in a temperate beech-oak forest. European Geosciences Union General Assembly. April, 2014. Vienna, Austria.

Van Stan J.T., A. Stubbins, T. Bittar, J.S. Reichard, K. Wright, R.B. Jenkins. Comparison of *Tillandsia usneoides* (Spanish moss) water and leachate dynamics between urban and pristine barrier island maritime oak forests. American Geophysical Union Fall Meeting. December, 2013. San Francisco, CA, USA.

***Van Stan J.T.** Forest ecohydrology: Past research & future directions for precipitation partitioning on the coast. October, 2013. Skidaway Institute of Oceanography, Savannah, GA, USA.

***Van Stan J.T.** Urban forest design: An example of STEM education in action. Georgia Southern University's annual STEM Café. May, 2013. Statesboro, GA, USA.

***Van Stan J.T.**, C.M. Siegert, D.F. Levia, & C.E. Scheick. Differential stemflow generation due to crown structural interactions with wind-driven rainfall. European Geosciences Union General Assembly. April, 2013. Vienna, Austria.

Friesen J. (Germany), **J.T. Van Stan**, K. Martin, M.T. Jarvis, J.D. Lundquist, & D.F. Levia. Evaluation of an instrumental method to reduce error in canopy water storage estimates via mechanical displacement. European Geosciences Union General Assembly. April, 2013. Vienna, Austria.

Van Stan J.T., K. Martin, J. Friesen (Germany), M.T. Jarvis, J.D. Lundquist, & D.F. Levia. Evaluation of an instrumental method to reduce error in canopy water storage estimates via mechanical displacement. American Geophysical Union Fall Meeting. December, 2012. San Francisco, CA, USA.

Reichard J.S., B.R. Nelson, B.K. Meyer, R.K. Vance, **J.T. Van Stan**. Saltwater intrusion in the upper Floridan aquifer on St. Catherines Island, Georgia. Geological Society of America's Annual Meeting. November, 2012. Charlotte, NC, USA.

Van Stan J.T., C.M. Siegert, D.F. Levia, C.E. Scheick. Effects of wind-driven rainfall on stemflow generation between two codominant tree species with differing crown characteristics. Association of American Geographers Annual Meeting, February, 2012. New York, NY, USA.

Van Stan J.T., D.F. Levia, S.P. Inamdar, M.J. Mitchell, M. Lepori-Bui. The effects of season and storm characteristics on throughfall solute washoff and leaching dynamics from a temperate broadleaved deciduous canopy. American Geophysical Union Fall Meeting. December, 2011. San Francisco, CA, USA.

Levia D.F., **J.T. Van Stan**, S.P. Inamdar, M.J. Mitchell, C.E. Scheick, P. McHale. Aluminum solute chemistry in stemflow in relation to season and tree species in a mid-Atlantic broadleaved deciduous forest. American Geophysical Union Fall Meeting. December, 2011. San Francisco, CA, USA.

Lepori-Bui M., **J.T. Van Stan**, C.M. Siegert, D.F. Levia. Watershed scale forest inventory at the Fair Hill Natural Resource Management Area Experimental Watershed. Delaware Water Resources Center. May, 2011. Newark, DE, USA.

Van Stan J.T., D.F. Levia, M.T. Jarvis, J. Friesen (Germany). Reducing error associated with compression derived measurements of whole-tree rainfall interception within the Christina River Basin Critical Zone Observatory. National Critical Zone Observatory Program Meeting, 2011. Tuscon, AZ, USA.

Van Stan J.T., D.F. Levia, S.P. Inamdar, M.J. Mitchell, S.M. Mage. Temporal variability of stemflow dissolved organic carbon (DOC) concentrations and quality from morphologically contrasting deciduous canopies. American Geophysical Union Fall Meeting. December, 2010. San Francisco, CA, USA.

Levia D.F., **J.T. Van Stan**, C.M. Siegert, S.P. Inamdar, M.J. Mitchell, S.M. Mage, P.J. McHale. Stemflow: a hydrological control on the input of canopy-derived fluxes to forest soil. American Geophysical Union Fall Meeting. December, 2010. San Francisco, CA, USA.

Levia D.F., **J.T. Van Stan**, C.M. Siegert, S.P. Inamdar, M.J. Mitchell, S.M. Mage, P.J. McHale. Stemflow: a hydrological control on the input of canopy-derived fluxes to forest soil. Latsis Symposium on Ecohydrology. October, 2010. Lausanne, Switzerland.

Van Stan J.T., S. Stotts, D.F. Levia, J. Pizzuto, D. Sparks. Christina River Basin Critical Zone Observatory: Preliminary results from the vegetation survey for validation of airborne LiDAR imagery. 3rd Annual National CZO Meeting, September, 2010. Boulder, CO, USA.

Van Stan J.T., M.T. Jarvis, D.F. Levia. An automated instrument for the quantification of bark microrelief. American Geophysical Union Joint Assembly "Meeting of the Americas." May, 2009. Toronto, Canada.

Levia D.F., **J.T. Van Stan,** P.K. Hauske, S.M. Mage. Spatio-temporal variability of stemflow volume in a beech-yellow poplar forest in relation to tree species and size. American Geophysical Union Joint Assembly "Meeting of the Americas." May, 2009. Toronto, Canada.

TEACHING (Current course load is 3 Fall, 3 Spring, 1 Summer = 7 courses/year

Course taught	Title	Credits	Abbreviation
Georgia Southern University, Department of Geology & Geography (2012-current)			
Geography 1130	World Regional Geography	3	G-1130
Geography 1111	Climate & the Landscape	3	G-1111
Geography 3330	Weather & Climate	3	G-3330
Geography 4120	Introduction to Research	2	G-4120
Geography 4610	Senior Thesis Seminar	1	G-4610
Geography 5090	Ecohydrology	3	G-5090
Geography 5090	Environmental Impact Assessment	3	G-5090
Geography 5890A	Forest Hydrology Research Methods	3	G-5890
Geography 5890B	Forest Biogeochem. Research Methods	3	G-5890
University of Delaware, Department of Geography, Newark, DE (2006-2012)			
Geography 101	Introduction to Physical Geography	3	G-101
Geology 115	Geological Hazards Laboratory	3	G-115
Assisted:			
Geography 106	Physical Geography	3	G-106
Geography 235	Natural Resource Management	3	G-235
Geography 450	Environmental Science Proseminar	3	G-450

PROFESSIONAL ORGANIZATIONS
American Association of Geographers (AAG)
American Geophysical Union (AGU)
European Geosciences Union (EGU)
International Association of Hydrological Sciences (IAHS)

REVIEWER FOR: *Book reviews

Agricultural and Forest Meteorology
Biogeosciences
Caspian Journal of Environmental Sciences
Ecohydrology
**Elsevier (Science & Technology)*
Environmental Monitoring & Assessment
Environmental Science & Pollution Research
European Journal of Forest Research
Forests
Geoderma
Hydrology and Earth System Science
Hydrological Processes
Hydrological Sciences Journal
IEEE Trans. Instrumentation & Measurement
iForest – Biogeosciences and Forestry
Int'l Journal of Biodiversity & Conservation
Journal of Forestry
Journal of Hydrology
Journal of Plant Ecology
Journal of Tropical Ecology
Northwest Science
**Oxford University Press (Earth Sci/Geog)*
**Pearson Education (Geosystems)*
PLOS One
Sensors
Science of the Total Environment
Turkish Journal of Agriculture & Forestry
Urban Ecosystems
Urban Forestry & Urban Greening
Water