

JAMES H. STAGGE, PH.D., P.E.

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RESEARCH EXPERIENCE

- 2016- Postdoctoral Fellow **Utah State University**, Utah Water Research Laboratory
- 2012-2016 Postdoctoral Researcher **University of Oslo**, Dept. of Geosciences
- 2009-2012 Graduate Research Assistant **Virginia Tech University**, Dept. of Civil Engineering
- 2004-2006 Graduate Research Assistant **University of Maryland**, Dept. of Civil Engineering

EDUCATION

- 2012 **Ph.D. in Civil Engineering.** *Virginia Polytechnic Institute & State University (Virginia Tech).*
Optimization of multi-reservoir management rules subject to climate and demand change in the Potomac river basin.
- 2006 **M.S. in Civil and Environmental Engineering.** *University of Maryland.*
Field evaluation of hydrologic and water quality benefits of grass swales for managing highway runoff.
- 2004 **B.S. in Civil and Environmental Engineering with Honors.** *University of Maryland.*
Organic contaminant sorption to natural and surfactant-modified soil with varying properties.

PUBLICATIONS

Google scholar: citations 493, h-index: 11 (updated Dec 1, 2017) * Mentee Author

Publications in Review and Preparation (Drafts available upon request)

- [1] Stagge, J.H., Rosenberg, D.E., DeRose, R.J., and Rittenour, T.M., "**Monthly paleostreamflow reconstruction from annual tree-ring chronologies.**" *In Review following revisions*, Journal of Hydrology.
- [2] Stagge, J.H., Rosenberg, D.E., and DeRose, R.J. "**PaleoFlow: An Online Visualization Tool for Reconstructed Streamflows.**" *Submitted, in review*, SoftwareX.
- [3] *Alafifi, A., Stagge, J.H., Null, S., and Rosenberg, D.E. "**Application of cluster analysis to improve river habitat quality under multiple hydrologic, ecologic, and management uncertainties.**" *In preparation*, Water Resources Planning and Management.

Peer-Reviewed Publications

- [1] Stagge, J.H., Kingston, D., Tallaksen, L.M. and Hannah, D., "**Observed drought indices show increasing divergence across Europe.**" *Scientific Reports*, 7 (1), 14045.
 - Research highlighted by: Clean Technica, Cache Valley Daily, Utah Business, Planetsave, PressReleasePoint, Science Newsline, Earth.com, Terra Daily, Phys.org, Long Room, Trends der Zukunft, Scinexx, Tiempo.com, Diario Siglo XXI, Eco Diario, Público
 - Listen to audio: KVNU Interview
- [2] Stagge, J.H. and Moglen, G.E. (2017) "**Water resources adaptation to climate and demand change in the Potomac River.**" *Journal of Hydrologic Engineering.*, 22 (11), 04017050.
- [3] *Nilsen, I.B., Stagge, J.H., Tallaksen, L.M. (2017) "**A probabilistic approach for attributing temperature changes to synoptic type frequency**" *International Journal of Climatology, International Journal of Climatology*, 37, 2990-3002.

- [4] Ionita, M., Tallaksen, L.M., Kingston, D.G., Stagge, J.H., Laaha, G., van Lanen, H.A.J., Scholz, P., Chelcea, S.M. and Haslinger, K., (2017) "**The European 2015 drought from a climatological perspective.**" *Hydrol. Earth Syst. Sci.*, 21 (3), 1397-1419.
- [5] Rizzi, J., Nilsen, I.B., Stagge, J.H., Gislén, K., and Tallaksen, L.M. "**Five decades of warming: impacts on snow in Norway.**" *Hydrology Research*, nh2017051, 10.2166/nh.2017.051.
- [6] Laaha, G., Gauster, T., Tallaksen, L. M., Vidal, J.-P., Stahl, K., Prudhomme, C., Heudorfer, B., Vlnas, R., Ionita, M., Van Lanen, H. A. J., Adler, M.-J., Caillouet, L., Delus, C., Fendekova, M., Gailliez, S., Hannaford, J., Kingston, D., Van Loon, A. F., Mediero, L., Osuch, M., Romanowicz, R., Sauquet, E., Stagge, J.H., and Wong, W. K., (2017) "**The European 2015 drought from a hydrological perspective.**" *Hydrol. Earth Syst. Sci.*, 21 (6), 3001-3024.
- [7] Stagge, J.H., Tallaksen, L.M., Gudmundsson, L., van Loon, A.F. and Stahl, K. (2016). "**Response to Comment on 'Candidate Distributions for Climatological Drought Indices (SPI and SPEI).'**" *International Journal of Climatology*, 36, 2132-2138.
- [8] *Blauhut, V., Stahl, K., Stagge, J.H., Tallaksen, L.M., de Stefano, L., Vogt, J. (2016). "**Estimating drought risk across Europe from reported drought impacts, drought indices, and vulnerability factors.**" *Hydrol. Earth Syst. Sci.*, 20, 2779-2800.
- [9] Stahl, K., Kohn, I., Blauhut, V., Urquijo, J., De Stefano, L., Acacio, V., Dias, S., Stagge, J.H., Tallaksen, L.M., Kampragou, E., Van Loon, A., Barker, L.J, Melsen, L.A., Bifulco, C., Musolino, D., de Carli, A., Massarutto, A., Assimacopoulos, D. and Van Lanen, H.A.J. (2016). "**Impacts of European drought events: insights from an international database of text-based reports.**" *Nat. Hazards Earth Syst. Sci.*, 16, 801-819.
- [10] Van Lanen, H.A.J., Laaha, G., Kingston, D.G., Gauster, T., Ionita, M., Vidal, J-P, Vlnas, R., Tallaksen, L.M., Stahl, K., Hannaford, J., Delus, C., Fendekova, M., Mediero, L., Prudhomme, C., Rets, E., Romanowicz, R.J., Sebastien, G., Wong, W.K., Adler, M-J, Blauhut, V., Caillouet, L., Chelcea, S., Frolova, N., Gudmundsson, L., Hanel, M., Haslinger, K., Kireeva, M., Osuch, M., Sauquet, E., Stagge, J.H., van Loon, A.F. (2016). "**Hydrology needed to manage droughts: the 2015 European case.**" *Hydrological Processes*, 30 (17), 3097-3104.
- [11] Stagge, J.H., Kohn, I., Tallaksen, L.M. and Stahl, K. (2015). "**Modeling drought impact occurrence based on meteorological drought indices in Europe.**" *Journal of Hydrology*, 530, 37-50.
- [12] Stagge, J.H., Tallaksen, L.M., Gudmundsson, L., van Loon, A.F. and Stahl, K. (2015). "**Candidate distributions for climatological drought indices (SPI and SPEI).**" *International Journal of Climatology*, 35 (13), 4027-4040.
- [13] Kingston, D.G., Stagge, J.H., Tallaksen, L.M. and Hannah, D.M. (2015). "**European-scale drought: understanding connections between atmospheric circulation and meteorological drought Indices.**" *Journal of Climate*, 28 (2), 505-516.
- [14] Stagge, J.H., Song, X., Seagren, E.A. (2015) "**Sorption of naphthalene onto natural and surfactant-modified soils.**" *Journal of Environmental Engineering*, 06015010-1-5.
- [15] Casey, M.J., Stagge, J.H., Moglen, G.E., McCuen, R.H. (2015) "**The effects of watershed subdivision on peak discharge in rainfall-runoff modeling.**" *Journal of Hydrologic Engineering*, 20 (10), 1084-0699.
- [16] Bartholomeus, R.P., Stagge, J.H., Tallaksen, L.M., and Witte, J.P.M. (2015). "**Sensitivity of potential evaporation estimates to 100 years of climate variability.**" *Hydrology and Earth System Sciences.*, 19, 997-1014.
- [17] Stagge, J.H. and Moglen, G.E. (2014). "**Evolutionary algorithm optimization of a multireservoir system with long lag times.**" *Journal of Hydrologic Engineering.*, 19 (9).
- [18] Stagge, J.H. and Moglen, G.E. (2012). "**A nonparametric stochastic method for generating daily climate-adjusted streamflows.**" *Water Resources Research.* 49(1), 6179-6193.
- [19] Stagge, J.H., Davis, A.P., Jamil, E., and Kim, H. (2012). "**Performance of grass swales for improving water quality from highway runoff.**" *Water Research.*, 46(20), 6731-6742

- [20] Davis, A.P., Stagge, J.H., Jamil, E., and Kim, H. (2012). "**Hydraulic performance of grass swales for managing highway runoff.**" *Water Research.*, 46(20), 6775-6786
- [21] Stagge, J.H. and Moglen, G.E. (2011). "**Regional effects of land use change on water supply in the Potomac river basin.**" *Watershed Science Bulletin.*, 2(1), 52-53

Software and Online Tools

- [1] Stagge, J.H. (2017). "**paleoAPR: Monthly streamflow reconstruction package for R**" R package version 1.0. doi: 10.5281/zenodo.889892
- [2] Stagge, J.H. (2017). "**PaleoFlow: Reconstructed Streamflow Explorer**" <http://www.paleoflow.org> doi: 10.5281/zenodo.569892.
- [3] Stagge, J.H. (2014). "**European Drought Reference (EDR) database and European Drought Impact Report Inventory (EDII)**" <http://www.geo.uio.no/edc/droughtdb>
- [4] Gudmundsson, L. and Stagge, J.H. (2014). "**SCI: Standardized Climate Indices such as SPI, SRI or SPEI**" R package version 1.0-1.

Refereed Conference Publications

- [1] Bifulco, C., Rego, F., Dias, S., and Stagge, J.H. (2014). "**Assessing the association of drought indicators to impacts. The results for areas burned by wildfires in Portugal.**" *Advances in Forest Fire Research.*, Viegas, D.X. (ed.) 1054-1060.
- [2] Tallaksen, L.M., Stagge, J.H., Stahl, K., Gudmundsson, L., Orth, R., Seneviratne, S.I., van Loon, A.F., and van Lanen, H.A.J. (2015). "**Characteristics and drivers of drought in Europe - a summary of the DROUGHT R&SPI project**" *Drought: Research and Science Policy Interfacing*. Andreu et al. (eds). ISBN 978-1-138-02779-4. 15-22.
- [3] Gunst, L., Rego, F.C., Dias, S., Bifulco, C., Stagge, J.H., Rocha, M., and van Lanen, H.A.J. (2015). "**Impact of meteorological drought on crop yield on pan-European scale, 1979-2009**" *Drought: Research and Science Policy Interfacing*. Andreu et al. (eds). ISBN 978-1-138-02779-4. 113-118.
- [4] Stagge, J.H., Tallaksen, L.M., Xu, C.Y., and van Lanen, H.A.J (2014). "**Standardized precipitation evapotranspiration index (SPEI): Sensitivity to potential evapotranspiration model and parameters.**" *Proceedings of FRIEND-Water 2014, IAHS Red Book No. 363*. Montpellier, France.
- [5] Hannah, D.M., Fleig, A.K., Kingston, D.G., Stagge, J.H., and Wilson, D. (2014). "**Connecting streamflow and the atmospheric conditions in Europe: state-of-the-art review and future directions.**" *Proceedings of FRIEND-Water 2014, IAHS Red Book No. 363*. Montpellier, France.
- [6] Stagge, J.H. and Davis, A.P. (2006). "**Water quality benefits of grass swales in managing highway runoff.**" *Proceedings of the Water Environment Federation, WEFTEC 2006*.

Books and Book Chapters

- [1] Hunt, W.F., Traver, R.G., Davis, A.P., Emerson, C.H., Collins, K.A., and Stagge, J.H. (2010). "**Chapter 12: Low impact development practices: Designing to infiltrate in urban environments.**" in *Effects of urbanization on groundwater: an engineering case-based approach for sustainable development*, edited by Ni-Bin Chang.

Reports and Other Publications

- [1] Stagge, J.H., Rizzi, J., Tallaksen, L.M., and Stahl, K. (2015). "**DROUGHT-R&SPI Technical Report No. 25 - Future Meteorological Drought Projections of Regional Climate**" *DROUGHT-R&SPI Project*.

- [2] Stahl, K., Stagge, J.H., Bachmair, K., Blauhut, V., Rego, F.C., De Stefano, L., Dias, S., Gudmundsson, L., Gunst, L., Kohn, I., Van Lanen, H.A.J., Urquijo Reguera, J., and Tallaksen, L.M. (2015). "**DROUGHT-R&SPI Technical Report No. 28 - Recommendations for indicators for monitoring and early-warning considering different sensitivities: pan-European scale**" *DROUGHT-R&SPI Project*.
- [3] De Stefano, L., González Tánago, I., Ballesteros, M., Urquijo, J., Blauhut, V., Stagge, J.H. and Stahl, K. (2015) "**DROUGHT-R&SPI Technical Report No. 26 - Methodological approach considering different factors influencing vulnerability - pan-European scale**" *DROUGHT-R&SPI Project*.
- [4] Gudmundsson, L., van Loon, A.F., Tallaksen, L.M., Seneviratne, S.I., Stagge, J.H., Stahl, K., and Van Lanen, H.A.J. (2014). "**DROUGHT-R&SPI Technical Report No. 21 - Guidelines for monitoring and early warning of Drought in Europe**" *DROUGHT-R&SPI Project*.
- [5] Stagge, J.H., Tallaksen, L.M., Kohn, I., Stahl, K., and van Loon, A.F. (2013). "**DROUGHT-R&SPI Technical Report No. 12 - A European Drought Reference Database: Design and Online Implementation**" *DROUGHT-R&SPI Project*.
- [6] Stahl, K., Blauhut, V., Kohn, I., Acacio, V., Assimacopoulos, D., Bifulco, C., De Stefano, L., Dias, S., Eilertz, D., Frielingsdorf, B., Hegdahl, T., Kampragou, E., Kourentzis, V., Melsen, L., van Lanen, H.A.J., van Loon, A.F., Massarutto, A., Musolino, D., de Paoli, L., Senn, L. Stagge, J.H., Tallaksen, L.M., and Urquijo, J. (2012). "**DROUGHT-R&SPI Technical Report No. 3 - A European Drought Impact Report Inventory (EDII): Design and Test for Selected Recent Droughts in Europe**" *DROUGHT-R&SPI Project*.
- [7] Stagge, J.H. (2009). "**Phytoremediation guidance document.**" *Prepared for ExxonMobil, Environmental Services*

GRANTS AND PROPOSALS

- 2017 **Drought Contingency Planning for Weber Basin**
\$50,700 (Awarded) Weber Basin Water Conservancy. Co-PI.
- 2017 **Transformative Extremes (TREX): Understanding impacts of high latitude extremes under global change**
\$3,100,000 (In Review) Research Council of Norway (TOPPFORSK). Contributor, Work Package Lead.
- 2017 **FutureWater: Climate change impacts on water availability - closing the knowledge gap on evapotranspiration at high latitudes**
\$1,600,000 (In Review) Research Council of Norway (KLIMAFORSK). Contributor.
- 2017 **Volcanism, hydrology and social conflict: Lessons from ancient Egypt and Mesopotamia**
\$1,800,000 (In Preparation) US National Science Foundation (NSF). Contributor.
- 2012 **National Capital Region Alumni Scholarship**
\$2,000 (Awarded) National Capital Region Chapter of the Virginia Tech Alumni Association.
- 2009 **Charles E. Via Doctoral Scholar Award**
\$155,000 (Awarded) Charles E. Via, Jr. Department of Civil and Environmental Engineering.

TEACHING AND MENTORING

Teaching

- 2017 **Guest Lecturer**, Managing Environmental Effects of Reservoirs
Utah State University, Integrated River Basins/ Watershed Planning and Management (CEE 6490)
- 2016 **Guest Lecturer**, Genetic Algorithms
Utah State University, Water Resources Systems Analysis (CEE 6410)

- 2016 **Workshop Lecturer**, Introduction to R and Regression
Utah State University, Summer Water Software/Code Workshop Series
- 2014 **Lecturer**, Drought Hazard and Management: Challenges in a Changing World
EU-funded FP7 Summer School - Hermoupolis, Syros Island, Greece
- 2014 **Guest Lecturer**, University of Oslo - Fluvial Hydrology (GEO 4340), HEC-RAS Lab
- 2013 **Lecturer**, University of Oslo - Soil and Groundwater (GEO3020)
- 2005 **Teaching Assistant**, University of Maryland - Computational Methods in Engineering (ENCE203)
- 2003 **Substitute Teacher**, Baltimore County Public Schools

Academic Mentorship

- 2016-17 **Ayman Alafifi** *Doctoral dissertation*
"Systems modeling to improve river, riparian, and wetland habitat quality and area"
- 2017 **Christian Ford** *iUtah Undergraduate Project*
"Predicting unmet municipal & industrial water demand due to population and drought in Cache County, Utah"
- 2015-16 **Irene Brox-Nilsen** *Doctoral dissertation*
"Can synoptic types explain warming in Europe?"
- 2015 **Veit Blauhut** *Doctoral dissertation*
"Estimating drought risk across Europe from hazard indicators, reported drought impacts, and vulnerability factors."
- 2014 **Anastasios Moukos** *Master's research project*
"Future projections of meteorological drought in Greece: 2000-2100."
- 2014 **Daniel Guenther** *Undergraduate research project*
"Low flow evaluation of nine large-scale hydrological models for Europe and the representative nature of the European Water Archive (EWA) near-natural catchments."
- 2013 **Anne Kristina Tvedalen** *Undergraduate research project*
"Drought in Scandinavia: An investigation of the links between the climatological index SPI and drought impacts."

WORK EXPERIENCE AND LICENSURE

- 2010- **Licensed Professional Engineer (PE)**, Civil Engineering: Maryland (#30460)
- 2008-2009 **Roux Associates, Inc.** *Staff Engineer, Engineered Natural Systems.*
- 2006-2008 **Bioengineering Group, Inc.** *Hydraulic Engineer.*
- 2003-2004 **USDA Agricultural Research Center** *Environmental Lab Assistant.*
- 2001 **Johnson, Mirmiran and Thompson Engineering, Inc.** *Surveyor.*

AWARDS AND PROFESSIONAL SERVICE

Awards and Honors

- 2011 2nd Prize - Oral Presentation, 27th Annual GSA Research Symposium, Virginia Tech
- 2004 Robert Morris Award for Environmental Leadership
- 2004 Undergraduate Honors Research Project, Honorable Mention
- 2000 Maryland Distinguished Scholar

Professional Service

- Judge, Student Poster Competition, 2016 Utah Spring Runoff Conference, 4/5/2016
- Chairperson, Session 6B: Drought Impacts, 6th EGU Leonardo Conference 2014: HYPER Droughts, 11/14/2014
- Euro-FRIEND: Low Flow and Large Scale Hydrology groups, Member
- European Geosciences Union (EGU), Member
- American Geophysical Union (AGU), Member
- Reviewer: Nature Climate Change, Water Resources Research (WRR), Hydrology and Earth System Sciences (HESS), Hydrology Research, Journal of American Water Resources Association (JAWRA), Stochastic Environmental Research and Risk Assessment (SERR), International Journal of Climatology, Water SA, Bragantia, Hydrogeology Journal

CONFERENCES AND ACADEMIC PRESENTATIONS

* Invited presentation

- [1] *Stagge, J.H. (2017). "**Centuries of reconstructed flows for quantifying drought vulnerability.**" *Water, Environmental, and Irrigation Seminar*, Logan, UT, 11 Oct 2017.
- [2] *Stagge, J.H. (2017). "**Climate change in the context of paleo-climate reconstruction.**" *Climate Adaptation Interdisciplinary Research Forum*, Logan, UT, 4 Oct 2017.
- [3] Stagge, J.H., Rosenberg, D.E. (2017). "**Classification scheme for reconstructed streamflow droughts in northern Utah (1430-present).**" *iUTAH Annual Symposium & Summer All-Hands Meeting*, Logan, UT, 13 July 2017.
- [4] *Stagge, J.H., Rosenberg, D.E. (2017). "**Reconstructing monthly flows for drought vulnerability.**" *Utah Climate Action Network: Utah Water and Climate Forum*, Salt Lake City, UT, 25 April 2017.
- [5] Stagge, J.H., Rosenberg, D.E., DeRose, R.J., and Rittenour, T.M. (2017). "**Monthly paleostreamflow reconstruction from annual tree-ring chronologies.**" *2017 Utah Spring Runoff Conference, Poster*, Logan, UT, 29 Mar 2017.
- [6] Stagge, J.H., Rosenberg, D.E., DeRose, R.J., and Rittenour, T.M. (2016). "**Monthly paleostreamflow reconstruction from annual dendrochronologies for water systems analysis.**" *American Geophysical Union (AGU) Fall Meeting, Poster GC13E-1231*, San Francisco, CA, 12 Dec 2016.
- [7] *Hannah, D.M., Kingston, D.G., Lavers, D., Stagge, J.H., Tallaksen, L.M. (2016). "**Unravelling connections between river flow and large-scale climate: experiences from Europe.**" *American Geophysical Union (AGU) Fall Meeting, Session H41I*, San Francisco, CA, 15 Dec 2016.
- [8] Ionita, M., Tallaksen, L.M., Kingston, D. and Stagge, J.H. (2016). "**The European 2015 drought from a climatological perspective.**" *European Geosciences Union (EGU) General Assembly, Session HS4.4*, Vienna, Austria, 19 April 2016.
- [9] Stagge, J.H., Kingston, D., Tallaksen, L.M. and Hannah, D. (2016). "**Diverging trends between meteorological drought indices (SPI and SPEI) in Europe.**" *European Geosciences Union (EGU) General Assembly, Session HS2.1.5*, Vienna, Austria, 19 April 2016.
- [10] Rizzi, J., Brox-Nilsen, I., Stagge, J.H., Gislås, K. and Tallaksen, L.M. (2016). "**Interaction between temperature, precipitation and snow cover trends in Norway.**" *European Geosciences Union (EGU) General Assembly, Session HS2.2.1*, Vienna, Austria, 20 April 2016.
- [11] Brox-Nilsen, I., Stagge, J.H. and Tallaksen, L.M. (2016). "**A probabilistic approach to attribute warming to changes in atmospheric circulation.**" *European Geosciences Union (EGU) General Assembly, Session HS2.10*, Vienna, Austria, 22 April 2016.

- [12] Kingston, D., Stagge, J.H., Tallaksen, L.M. and Hannah, D (2015). "**Trends and Drivers of European-Scale Drought**: Poster 1690 " *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA, 14 Dec 2015.
- [13] *Stagge, J.H. (2015). "**Projections of future droughts in Europe.**" *Open seminar on Drivers of Hydrometeorological Extremes in Europe*, University of Oslo, Norway, 16 Sep 2015.
- [14] Stagge, J.H., Tallaksen, L.M. and Rizzi, J (2015). "**Future meteorological drought: projections of regional climate models for Europe.**" *European Geosciences Union (EGU) General Assembly, Session HS2.4.3*, Vienna, Austria, 15 April 2015.
- [15] Rizzi, J., Brox Nilsen, I., Stagge, J.H., and Tallaksen, L.M. (2015). "**Concurrent trends in snow cover and air temperature in Norway**: Poster 11598" *European Geosciences Union (EGU) General Assembly, Session CR3.2*, Vienna, Austria, 14 April 2015.
- [16] Brox Nilsen, I., Stagge, J.H., and Tallaksen, L.M. (2015). "**A probabilistic method of calculating circulation-induced trends**: Poster 9829" *European Geosciences Union (EGU) General Assembly, Session HS2.4.2*, Vienna, Austria, 15 April 2015.
- [17] Bartholomeus, R., Stagge, J.H., Tallaksen, L.M., and Witte, J-P. (2015). "**Sensitivity of potential evaporation estimates to 100 years of climate variability**: Poster 5597" *European Geosciences Union (EGU) General Assembly, Session HS2.3.12*, Vienna, Austria, 16 April 2015.
- [18] Stagge, J.H., Kingston, D.G., Tallaksen, L.M., and Hannah, D.M. (2014). "**Climate drivers of regional drought in Europe.**" *6th Leonardo Conference 2014: HYPER Droughts*, Prague, Czech Republic, 13 Nov 2014.
- [19] Stagge, J.H., Tallaksen, L.M., Xu, C-Y., van Lanen, H.A.J. (2014). "**Standardized precipitation-evapotranspiration index (SPEI): Sensitivity to potential evapotranspiration model and parameters.**" *FRIEND-Water2014: 7th Global FRIEND-Water Conference*, Montpellier, France, 10 Oct 2014.
- [20] Hannah, D., Fleig, A.K., Kingston, D.G., Stagge, J.H., and Wilson, D. (2014). "**Connecting stream-flow and atmospheric conditions in Europe: state-of-the-art review and future direction.**" *FRIEND-Water2014: 7th Global FRIEND-Water Conference*, Montpellier, France, 10 Oct 2014.
- [21] Stagge, J.H., Kohn, I., Tallaksen, L.M. and Stahl, K (2014). "**Modeling drought impact occurrence based on climatological drought indices for Europe**: Poster 3277" *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA, 15 Dec 2014.
- [22] Kohn, I., Stagge, J.H., Blauhut, V., Bachmair, S., Stahl, K., and Tallaksen, L.M. (2014). "**Impacts of European drought events: insights from an international impact report inventory**: Poster 14336" *European Geosciences Union (EGU) General Assembly, Session HS4.4*, Vienna, Austria, 30 April 2014.
- [23] Stagge, J.H., Dias, S., Rego, F., and Tallaksen, L.M. (2014). "**Modeling the effect of climatological drought on European wildfire extent**: Poster 15745" *European Geosciences Union (EGU) General Assembly, Session NH7.1*, Vienna, Austria, 28 April 2014.
- [24] Stagge, J.H., Kohn, I., Tallaksen, L.M. and Stahl, K (2014). "**Modeling drought impact occurrence based on climatological drought indices for four European countries.**" *European Geosciences Union (EGU) General Assembly, Session HS4.4*, Vienna, Austria, 30 April 2014.
- [25] Stagge, J.H. (2014). "**European-scale drought: Understanding spatial and temporal characteristics of drought and links with atmospheric circulation.**" *Stats + Climate Workshop*, Oslo, Norway, 11 November 2013.
- [26] Stagge, J.H., Tallaksen, L., Stahl, K., Gudmundsson, L. and A. van Loon (2013). "**Pan-European comparison of climatological drought indices, SPI and SPEI.**" *European Geosciences Union (EGU) General Assembly, Session HS4.4*, Vienna, Austria, 11 April 2013.
- [27] Kingston, D.G., Stagge, J.H., Tallaksen, L.M. and D.M. Hannah (2013). "**European-scale drought: Understanding links between atmospheric circulation and climatological drought indices.**" *European Geosciences Union (EGU) General Assembly, Session HS2.5*, Vienna, Austria, 10 April 2013.

- [28] Stagge, J.H. and G.E. Moglen (2013). "**A nonparametric stochastic method for generating daily climate-adjusted streamflows.**" *FRIEND Splinter Group, European Geosciences Union (EGU) General Assembly*, Vienna, Austria, 9 April 2013.
- [29] Stagge, J.H., Tallaksen, L., Gudmundsson, L., Stahl, K., and A. van Loon (2013). "**Pan-European comparison of climatological drought indices, SPI and SPEI.**" *DROUGHT-R&SPI second General Assembly*, Milan, Italy, 22 February 2013.
- [30] Stagge, J.H. and L. Tallaksen (2012). "**A spatial and temporal comparison of drought indices (SPI/SPEI) in Europe.**" *FRIEND Water Low Flow and Drought Group Mid-Term Meeting*, Payerbach-Reichenau, Austria, 3-5 October 2012.
- [31] Stagge, J.H. (2012). "**Markov chain model for generation of daily climate-adjusted streamflows.**" *World Environmental & Water Resources Congress, ASCE/EWRI*, Albuquerque, NM
- [32] Stagge, J.H. (2011). "**Optimization of multi-reservoir operating rules using genetic algorithms.**" *27th Annual Graduate Student Association Research Symposium*, Blacksburg, VA, Virginia Tech
- [33] Stagge, J.H. (2009). "**Concepts in stormwater management and Low Impact Development.**" *Stormwater Pollution and Low Impact Development Conference*, Hartford, CT, University of Connecticut Environmental Law Society
- [34] Stagge, J.H. and Davis, A.P. (2006). "**Water quality benefits of grass swales in managing highway runoff.**" *Water Environment Federation, WEFTEC*, Dallas, TX