

## Personal data

Name: Karsten Arnbjerg-Nielsen  
Civil status: Born 02 November 1965, Danish citizen, Married, Two children (1995, 1998)  
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## Employment

2013-date Professor, Department of Environmental Engineering, Technical University of Denmark  
2008-13 Associate professor, Department of Environmental Engineering, Technical University of Denmark  
2008-08 Market Manager, Urban water, Ramboll Denmark A/S (Part-time)  
2001-07 Project Manager/Specialist, Urban Water, COWI A/S  
1996-01 Consulting engineer, PH-Consult ApS  
1997-99 Assistant / Associate Research Professor at DTU (Part-time)

## Education

2013 DTU Leadership programme  
2004 NLP Master Practitioner  
2001 NLP Business Practitioner  
1996 Ph.D., Environmental Engineering, Technical University of Denmark (DTU)  
1993 M.Sc., Civil Engineering, Technical University of Denmark.

## Recent academic achievements

- Leader of Research Group Climate Change Impact and Adaptation at DTU Environment.
- Editor of the ISI journal Water Science and Technology, 2008-
- Board member of the IWA/IAHR Joint Committee on Urban Drainage, 2012-date
- Member of IGUR, International Group on Urban Rainfall (specialist group under the IWA/IAHR Joint Committee on Urban Drainage), 1996-date.
- Editors select paper in Urban Water Journal as outstanding in celebration of a decade of publication (Arnbjerg-Nielsen, 2012, see publication list for details).
- Reviewer for following research councils: FORMAS, Sweden (2009, 2010, 2011, 2013), Norwegian Research Council (2009, 2010), NERC, Great Britain (2010), QNRF, Qatar (2012), and Czech Science Foundation, Czech Republic (2012), Fornyelsesfonden, Denmark (2012), Markedsmodningsfonden, Denmark (2014).
- Key-note/invited speaker: Brace Centre 9th Annual Symposium, McGill University, Montreal (2010), EAWAG/ETH seminar on urban water systems (2012), Singapore International Water Week (2014), 10<sup>th</sup> International Urban Drainage Modelling Conference (2015).
- Member of assessment committee for professorial appointments (Chair, Unesco-IHE Delft, 2014, Chair A/Prof, DTU, 2013)
- Opponent at six PhD-defenses (Chair DTU 2011, Chair DTU 2012, Main Opponent LTU 2013, Chair DTU 2014, Main Opponent University of Innsbruck 2014, TU Delft 2015)
- Member of several Programme or Organizing Committees for national and international conferences
- Head of Innovation for the Environmental Division (COWI, 2006-2007, 400 employees)

### **Student Achievements**

- S Brudler: Best Poster award within Water theme. DTU Sustain Conference 2015
- A Olsen: Paper and presentation nominated as best young scientist at International Conference of Flood Resilience, Exeter, September 2013 (10 candidates nominated)
- Q Zhou: Best Poster Award at IWA conference on Cities of the Future, 22-25 May 2011, Stockholm
- I B Gregersen: Paper nominated for the Paul Harremoës Award for Young Scientists at the 12<sup>th</sup> International Conference on Urban Drainage, 11-16 September 2011. (3 candidates out of 119 eligible papers).

### **Key research topics**

- Effect estimation and adaptation to climate change in urban areas
- Risk assessment and risk management with focus on urban flooding
- Modelling of rainfall with focus on extreme statistics

### **Summary of project management**

#### *Current main projects:*

2016-2020: Water Smart Cities. PI, Budget 28.3 MDKK. Innovation Fund Denmark

2014 – 2018: Innovation Network for Water in Urban Areas. PI, Budget line 1.6 MDKK. Danish Agency for Science, Technology, and Innovation

2014 – 2017: Global Decision Support Initiative at DTU. Internal virtual Centre at DTU. PI, budget line 1.0 MDKK

2012 – 2017: CRC for Water Sensitive Cities. Australian Cooperative Research Government Programme. PI for a subproject, Managing 3.2 of 183 MDKK

#### *Past main projects*

2009 – 2015: CRES (Centre for Regional Changes in the Earth System), Danish Research Council. WB Lead. Managing 2.8 of 29 MDKK

2010 – 2014: RiskChange, Danish Research Council. WP Lead. Managing 4.6 of 17 MDKK

2010 – 2014: Innovation Partnership Water in Urban Areas. PI/Project Manager. Managing 25 MDKK, of which 7.3 MDKK is allocated for own institution

2003 – 2007: EU-Life project: Local treatment of combined sewer overflows enabling the implementation of the Water Framework Directive (LOTWATER). PI/Project Manager, 63.0 MDKK

### **Summary of supervision since 2008**

Graduated MSc students: 27 (four on-going)

Graduated PhD-students: 7 (4 as main supervisor)

Current PhD-students: 4 (1 as main supervisor)

Current Post-Docs: 1

Previous Post-docs: 2

### **Summary of publications**

Articles in international, refereed scientific journals: 59, H-index (ISI): 14

Books and reports published by authorities or scientific bodies: 28

Contributions to peer reviewed conference proceedings: 100+

Contributions to Danish technical journals and magazines: 50+

**Selected publications***Articles in international, refereed scientific journals:*

1. Sørup HJD, Lerer SM, Arnbjerg-Nielsen K, Mikkelsen PS, and Rygaard R. Efficiency of stormwater control measures: How the Three Points Approach (3PA) can guide the interpretation of strategic management approaches for rainwater harvesting, stormwater drainage and flood risk management. *Environmental Science and Policy*. In Review.
2. Sharma AK, Vezzaro L, Birch H, Arnbjerg-Nielsen K, Mikkelsen PS. Effect of climate change on stormwater runoff characteristics and treatment efficiencies of stormwater retention ponds: a case study from Denmark using TSS and Cu as indicator pollutants. *SpringerPlus*. In Review.
3. Sunyer MA, Luchner J, Onof C, Madsen H, Arnbjerg-Nielsen K. *Assessing importance of spatio-temporal RCM resolution when estimating sub-daily extreme precipitation under current and future climate conditions*. *International Journal of Climatology*. Accepted.
4. Pereira-Cardenal SJ, Mo B, Gjelsvik A, Riegels ND, Arnbjerg-Nielsen K, Bauer-Gottwein P. *Joint optimization of regional water-power systems*. *Advances in Water Resources*. Accepted. DOI: 10.1016/j.advwatres.2016.04.004
5. Åstrøm H, Sunyer MA, Madsen H, Rosbjerg D, Arnbjerg-Nielsen K. *Explanatory analysis of the relationship between atmospheric circulation and flood generating events in a coastal city*. *Hydrological Processes*. Accepted. DOI: 10.1002/hyp.10767.
6. Sørup HJD, Christensen OB, Arnbjerg-Nielsen K, and Mikkelsen PS. 2016. *Downscaling future precipitation extremes to urban hydrology scales using a spatio-temporal Neyman–Scott weather generator*. *Hydrology and Earth System Sciences*, 20, 1387-1403, 2016. doi:10.5194/hess-20-1387-2016.
7. Kaspersen PS, Ravn NH, Arnbjerg-Nielsen K, Madsen H, Drews M. 2015. *Influence of urban land cover changes and climate change for the exposure of European cities to flooding during high-intensity precipitation*. *Proc. IAHS*, 370, 21–27, 2015. DOI:10.5194/piahs-370-21-2015
8. Locatelli L, Mark O, Mikkelsen PS, Arnbjerg-Nielsen K, Wong T, Binning PJ. 2015. *Determining the extent of groundwater interference on the performance of infiltration trenches*. *Journal of Hydrology*, 529, 3, 1360-1372. DOI: 10.1016/j.jhydrol.2015.08.047
9. Pereira-Cardenal SJ, Mo B, Riegels ND, Arnbjerg-Nielsen K, Bauer-Gottwein P. 2015. *Optimization of Multipurpose Reservoir Systems Using Power Market Models*. *Journal of Water Resources Planning and Management*, 141, 8, 04014100. DOI: 10.1061/(ASCE)WR.1943-5452.0000500
10. Sunyer MA, Gregersen IB, Madsen H, Luchner J, Rosbjerg D, Arnbjerg-Nielsen K. 2015. *Comparison of different statistical downscaling methods to estimate changes in hourly extreme precipitation using RCM projections from ENSEMBLES*. *International Journal of Climatology*, 35, 9, 2528-2539. DOI: 10.1002/joc.4138
11. Arnbjerg-Nielsen K, Leonardsen L, and Madsen H. 2015. *Evaluating climate change adaptation options for urban flooding based on new high-end emission scenario Regional Climate Model simulations*. *Climate Research*, 64, 1, 73-84. DOI: 10.3354/cr01299.
12. Gregersen IB, Madsen M, Rosbjerg D, Arnbjerg-Nielsen K. 2015. *Long term variations of extreme rainfall in Denmark and Southern Sweden*. *Climate Dynamics*, 44, 11-12, 3155-3169. DOI: 10.1007/s00382-014-2276-4
13. Locatelli L, Gabriel S, Mark O, Mikkelsen PS, Arnbjerg-Nielsen K, Taylor H, Bockhorn B, Larsen H, Kjølby MJ, Blicher AS, Binning PJ. 2015. *Modelling the impact of retention-detention units on sewer surcharge and peak and annual runoff reduction*. *Water Science and Technology*, 71, 6, 898-903. DOI:10.2166/wst.2015.044
14. Lerer SM, Arnbjerg-Nielsen K, and Mikkelsen PS. 2015. *A mapping of tools for informing Water Sensitive Urban Design planning decisions – questions, aspects and context sensitivity*. *Water*, 7, 993-1012; doi:10.3390/w7030993.
15. Arnbjerg-Nielsen K, Funder SG, Madsen H. 2015. *Identifying climate analogues for precipitation extremes for Denmark based on RCM simulations from the ENSEMBLES database*. *Water Science and Technology*, 71, 3, 418-425. DOI: 10.2166/wst.2015.001

16. Mayer S, Maule CM, Sobolowski S, Christensen OB, Sørup HJD, Sunyer MA, Arnbjerg-Nielsen K, Barstad I. 2015. *Identifying added value in high-resolution climate simulations over Scandinavia*. *Tellus A* 2015, 67, 24941. DOI: 10.3402/tellusa.v67.24941
17. Olsen AS, Zhou Q, Linde JL, Arnbjerg-Nielsen K. 2015. *Comparing Methods of Calculating Expected Annual Damage in Urban Pluvial Flood Risk Assessments*. *Water* 2015, 7, 255-270; doi:10.3390/w7010255
18. Locatelli L, Mark, O, Mikkelsen PS, Arnbjerg-Nielsen K, Jensen MB, Binning PJ. 2014. *Modelling of green roof hydrological performance for urban drainage applications*. *Journal of Hydrology*, 519, Part D, 3237-3248. DOI: 10.1016/j.jhydrol.2014.10.030
19. Sunyer MA, Madsen H, Rosbjerg D, Arnbjerg-Nielsen K. 2014. *A Bayesian approach for uncertainty quantification of extreme precipitation projections including climate model interdependency and non-stationary bias*. *Journal of Climate*, 27, 18, 7113-7132. DOI: 10.1175/JCLI-D-13-00589.1
20. Pereira-Cardenal SJ, Madsen H, Arnbjerg-Nielsen K, Riegels N, Jensen R, Mo B, Wangensteen I, and Bauer-Gottwein P. 2014. *Assessing climate change impacts on the Iberian power system using a coupled waterpower model*. *Climatic Change*, 126, 3-4, 351-364. DOI 10.1007/s10584-014-1221-1.
21. Åström H, Friis-Hansen P, Garré L, Arnbjerg-Nielsen K. 2014. *An influence diagram for urban flood risk assessment through pluvial flood hazards under non-stationary conditions*. *Journal of Water and Climate Change*, 5, 3, 276-286. DOI: 10.2166/wcc.2014.103
22. Merz B, Aerts J, Arnbjerg-Nielsen K, Baldi M, Becker A, Bichet A, Blöschl G, Bouwer LM, Brauer A, Cioffi F, Delgado JM, Gocht M, Guzzetti F, Harrigan S, Hirschboeck K, Kilsby C, Kron W, Kwon H-H, Lall U, Merz R, Nissen K, Salvatti P, Swierczynski T, Ulbrich U, Viglione A, Ward PJ, Weiler M, Wilhelm B, Nied M. 2014. *Floods and climate: emerging perspectives for flood risk assessment and management*. *Natural Hazards and Earth System Sciences*, 14, 1921-1942. doi:10.5194/nhess-14-1921-2014.
23. Refsgaard JC, Madsen H, Andréassian V, Arnbjerg-Nielsen K, Davidson TA, Drews M, Hamilton DP, Jeppesen E, Kjellström E, Olesen JE, Sonnenborg TO, Trolle D, Willems P, and Christensen JH. 2014. *A framework for testing the ability of models to project climate change and its impacts*. *Climatic Change*, 122, 1-2, 271-284. DOI: 10.1007/s10584-013-0990-2
24. Sunyer MA, Sørup HJD, Christensen OB, Madsen H, Rosbjerg D, Mikkelsen PS, and Arnbjerg-Nielsen K. 2013. *On the importance of observational data properties when assessing regional climate model performance of extreme precipitation*. *Hydrology and Earth System Sciences*, 10, 6, p. 7003-7043. doi:10.5194/hess-17-4323-2013
25. Sunyer MA, Madsen H, Rosbjerg D, and Arnbjerg-Nielsen K. 2013. *Regional Interdependency of Precipitation Indices across Denmark in Two Ensembles of High-Resolution RCMs*. *Journal of Climate*, 26, 20, 7912-7928. DOI: 10.1175/JCLI-D-12-00707.1
26. Zhou Q, Panduro TE, Thorsen TJ, and Arnbjerg-Nielsen K. 2013. *Verification of flood damage modelling using insurance data*. *Water Science and Technology*, 68, 2, 425-432. doi: 10.2166/wst.2013.268
27. Arnbjerg-Nielsen K, Willems P, Olsson J, Beecham S, Pathirana A, Gregersen IB, Madsen H, Nguyen V-T-V. 2013. *Impacts of climate change on rainfall extremes and urban drainage systems: a review*. *Water Science and Technology*, 68, 1, 16-28. doi: 10.2166/wst.2013.251
28. Gregersen IB, Sørup HJD, Madsen H, Rosbjerg D, Mikkelsen PS, and Arnbjerg-Nielsen K. 2013. *Assessing future climatic changes of rainfall extremes at small spatio-temporal scales*. *Climatic Change*, 118, 3-4, 783-797. DOI 10.1007/s10584-012-0669-0
29. Zhou Q, Quitzau M-B, Hoffmann B, Arnbjerg-Nielsen K. 2013. *Towards adaptive urban water management: up-scaling local projects*. *The International Journal of Architecture, Engineering and Construction*, 2, 1, 63-72. DOI: 10.7492/IJAEC.2013.007. *Journal started 2012, not ISI-indexed*.
30. Gregersen IB, Madsen H, Rosbjerg D, and Arnbjerg-Nielsen K. 2013. *A spatial and non-stationary model for the frequency of extreme rainfall events*. *Water Resources Research*, 49, 127-136. doi:10.1029/2012WR012570.

31. Zhou Q, Panduro TE, Thorsen BJ, Arnbjerg-Nielsen K. 2013. *Adaption to extreme rainfall with open urban drainage system - An integrated hydrological cost benefit analysis*. Environmental Management, 51, 3, 586-601. Open Access. DOI 10.1007/s00267-012-0010-8
32. Refsgaard JC, Arnbjerg-Nielsen K, Drews M, Halsnæs K, Jeppesen E, Madsen H, Markandya A, Olesen JE, Porter JR, Christensen JH. 2013. *The role of uncertainty in climate change adaptation strategies—A Danish water management example*. Mitigation and Adaptation Strategies for Global Change, 18, 3, 337-359. Open Access. DOI 10.1007/s11027-012-9366-6.
33. Sørup HJD, Madsen H, Arnbjerg-Nielsen K. 2012. *Descriptive and predictive evaluation of high resolution Markov chain precipitation models*. Environmetrics, 23, 7, 623-635. DOI: 10.1002/env.2173
34. Zhou Q, Halsnæs K, Arnbjerg-Nielsen K. 2012. *Economic assessment of climate adaptation options for urban drainage design in Odense, Denmark*. Water Science and Technology, 66, 8, 1812 - 1820. doi: 10.2166/wst.2012.386
35. Pedersen A, Mikkelsen PS, Arnbjerg-Nielsen K. 2012. *Climate change induced impacts on urban flood risk influenced by concurrent hazards*. Journal of Flood Risk Management, 5, 3, 203-214. DOI: 10.1111/j.1753-318X.2012.01139.x
36. Gregersen IB, Arnbjerg-Nielsen K. 2012. *Decision strategies for handling the uncertainty of future extreme rainfall under influence of climate change*. Water Science and Technology, 66, 2, 284-291. doi: 10.2166/wst.2012.173
37. Arnbjerg-Nielsen, K. 2012. *Quantification of climate change effects on extreme precipitation used for high resolution hydrologic design*. Urban Water Journal, 9, 2, 57-65. doi:10.1080/1573062X.2011.630091
38. Zhou Q, Mikkelsen PS, Halsnæs K, Arnbjerg-Nielsen K. 2012. *Framework for economic pluvial flood risk assessment considering climate change effects and adaptation benefits*. Journal of Hydrology, 414-415, 539-549. doi:10.1016/j.jhydrol.2011.11.031
39. Willems P, Molnar P, Einfalt T, Arnbjerg-Nielsen K, Onof C, Nguyen, V-T-V, Burlando P. 2012. *Rainfall in the urban context: forecasting, risk and climate change*. Atmospheric Research, 103, 1-3. doi:10.1016/j.atmosres.2011.11.004
40. Willems P, Arnbjerg-Nielsen K, Olsson J, and Nguyen V-T-V. 2012. *Climate change impact assessment on urban rainfall extremes and urban drainage: methods and shortcomings*. Atmospheric Research, 103, 106-118. doi:10.1016/j.atmosres.2011.04.003
41. Arnbjerg-Nielsen K. 2011. *Past, present, and future design of urban drainage systems with focus on Danish experiences*. Water Science and Technology, 63, 3, 527-535. doi: 10.2166/wst.2011.253
42. Arnbjerg-Nielsen K, and Fleischer HS. 2009. *Feasible adaptation strategies for increased risk of flooding in cities due to climate change*. Water Science and Technology, 60, 2, 273-281. doi: 10.2166/wst.2009.298
43. Onof C, and Arnbjerg-Nielsen K. 2009. *Quantification of Climate Change Impacts On High Resolution Design Rainfall For Urban Areas*. Atmospheric Research, 92, 3, 350-363. doi:10.1016/j.atmosres.2009.01.014
44. Madsen H, Arnbjerg-Nielsen K, and Mikkelsen PS. 2009. *Update of regional intensity-duration-frequency curves in Denmark: Tendency towards increased storm intensities*. Atmospheric Research, 92, 3, 343-349. doi:10.1016/j.atmosres.2009.01.013
45. Schönning C, Westrell T, Stenstrom TA, Arnbjerg-Nielsen K, Hasling AB, Høiby L, Carlsen A. 2007. *Microbial Risk Assessment of Local Handling and Reuse of Human Faeces*. Journal of Water and Health, 2007, 5, 1, 117-128.
46. Arnbjerg-Nielsen K. 2006. *Significant climate change of extreme rainfall in Denmark*. Water Science and Technology, 54, 6-7, 1-8
47. Mikkelsen PS, Madsen H, Arnbjerg-Nielsen K, Rosbjerg D, and Harremoës P. 2005. *Selection of regional historical time series as input to urban drainage simulations at ungauged sites*. Atmospheric Research, 77, 2005, 4-17.

48. Einfalt T, Arnbjerg-Nielsen K, Faure D, Jensen NE, Quirnbach M, Vaes G, Vieux B, Golz C. 2004. *Towards a Roadmap for use of radar rainfall data in urban drainage*. Journal of Hydrology, 299, 2004, 186-202
49. Arnbjerg-Nielsen K, Harremoës P, and Mikkelsen PS. 2002. *Disemination of regional rainfall analysis in design and analysis of urban drainage at un-gauged locations*. Water Science and Technology, 45, 2, 69-74
50. Einfalt T, Arnbjerg-Nielsen K, Spies S. 2002. *An enquiry into rainfall data measurement and processing for model use in urban hydrology*. Water Science and Technology, 45, 2, 147 - 152
51. Thyregod P, Madsen H, Carstensen J, and Arnbjerg-Nielsen K. 1999. *Integer valued autoregressive models for tipping bucket rainfall measurements*. Environmetrics, 10, 395-411.
52. Arnbjerg-Nielsen K, Madsen H, Harremoës P. 1998. *Formulating and testing a rain series generator based on tipping bucket gauges*. Water Science and Technology, 37, 11, 47-55.
53. Einfalt T, Arnbjerg-Nielsen K, Fankhauser F, Rauch W, Schilling W, Nguyen V-T-V, Despotovic J. 1998. *Use of historical rainfall series for hydrological modelling - workshop summary*. Water Science and Technology, 37, 11, 1-6.
54. Mikkelsen PS, Madsen H, Arnbjerg-Nielsen K, Jørgensen HK, Rosbjerg D, and Harremoës P. 1998. *A rationale for using local and regional point rainfall data for design and analysis of urban storm drainage systems*. Water Science and Technology, 37, 11, 7-14.
55. Overgaard S, El-Shaarawi AH, and Arnbjerg-Nielsen K. 1998. *Calibration of tipping bucket rain gauges*. Water Science and Technology, 37, 11, 139-145.
56. Thyregod P, Arnbjerg-Nielsen K, Madsen H, Carstensen J. 1998. *Modelling the embedded rainfall process using tipping bucket data*. Water Science and Technology, 37, 11, 57-64.
57. Mikkelsen PS, Arnbjerg-Nielsen K, and Harremoës P. 1998. *Consequences for established design practice from geographical variation of historical rainfall data*. Water, Science and Technology, 36, (8-9), 1-6.
58. Arnbjerg-Nielsen K, Harremoës P, and Spliid H. 1996. *Interpretation of regional variation of extreme values of point precipitation in Denmark*. Atmospheric Research, 42, (1-4), 99-111.
59. Arnbjerg-Nielsen K, and Harremoës P. 1996. *Prediction of hydrological reduction factor and initial loss in urban surface runoff from small ungauged catchments*. Atmospheric Research, 42, (1-4), 137-147.
60. Arnbjerg-Nielsen K, and Harremoës P. 1996. *The importance of inherent uncertainties in state-of-the-art urban storm drainage modelling from ungauged small catchments*. Journal of Hydrology, 179, (1-4), 305-319.
61. Arnbjerg-Nielsen K, Spliid H, and Harremoës P. 1994. *Non-parametric statistics on extreme rainfall*. Nordic Hydrology, 25, 267-278.

*Books and reports published by authorities or scientific bodies*

1. Gregersen IB, Sunyer M, Madsen H, Funder S, Luchner J, Rosbjerg D and Arnbjerg-Nielsen K. 2014. Past, present, and future variations of extreme precipitation in Denmark. Technical report 1/2014. DTU Environment, Lyngby. ISBN 978-87-92654-94-6 (electronic version).
2. Gregersen IB, Madsen H, Linde JJ, Arnbjerg-Nielsen K. 2014. Opdaterede klimafaktorer og dimensiongivende regnintensiteter. Skrift 30, Spildevandskomiteen, København.  
[http://ida.dk/sites/prod.ida.dk/files/svk\\_skrift30\\_0.pdf](http://ida.dk/sites/prod.ida.dk/files/svk_skrift30_0.pdf)

3. Sørup HJD, Bøsning Christensen O, Arnbjerg-Nielsen K, and Mikkelsen PS. 2013. *Kalibrering af en regngenerator til brug for nedskalering af klimastudier; Drift af Spildevandskomitéens Regnmålersystem: Årsnotat 2012*. Sjølin Thomsen, R. (ed.). København: DMI. Klima- og Energiministeriet, Ch. 8, p. 33-35 (Teknisk rapport).
4. Willems P, Olsson J, Arnbjerg-Nielsen K, Beecham S, Pathirana A, Gregersen IB, Madsen H, Nguyen V-T-V. 2012. *Impact of Climate Change on Rainfall Extremes and Urban Drainage Systems*. IWA Publishing, London. ISBN: 9781780401256.
5. Sørup HJD, Arnbjerg-Nielsen K, Mikkelsen PS, Rygaard M. 2012. *Quantitative potential for rainwater use*. Technical University of Denmark in collaboration with Copenhagen Energy and Aarhus Water.  
[http://orbit.dtu.dk/en/publications/quantitative-potential-for-rainwater-use\(1564a6a5-966e-4cd0-ba7c-e69e753b7268\).html](http://orbit.dtu.dk/en/publications/quantitative-potential-for-rainwater-use(1564a6a5-966e-4cd0-ba7c-e69e753b7268).html)
6. Kjølholt J, Arnbjerg-Nielsen K, Olsen D, Jørgensen, K-R, 2012. *Nøgletal for miljøfarlige stoffer i spildevand fra renseanlæg – på baggrund af data fra det nationale overvågningsprogram for punktkilder 1998-2009. (Station Mean Concentrations for pollutants in sewage from Waste Water Treatment Plants – estimated based on data from the national surveillance program. In Danish)*. Danish Nature Agency, Western Jutland.  
[http://www.naturstyrelsen.dk/NR/rdonlyres/EBA393DC-AD63-4A96-9D8B-C04A30FEE2D0/135936/Noegletal\\_for\\_miljoefarlige\\_stoffer\\_Renseanlaeg\\_19.pdf](http://www.naturstyrelsen.dk/NR/rdonlyres/EBA393DC-AD63-4A96-9D8B-C04A30FEE2D0/135936/Noegletal_for_miljoefarlige_stoffer_Renseanlaeg_19.pdf)
7. Sharma AK, Eriksson E, Albrechtsen H-J, Henze M, Arnbjerg-Nielsen K. 2010. *Fremtidige klimatilpasningsteknologier. (Future climate change adaptation technologies. In Danish)*. Report to the Danish Energy Agency. ISBN 978-87-7844-867-5.  
[http://www.ens.dk/Documents/Netboghandel%20-%20publikationer/2010/Fremtidige\\_klimatilpasningsteknologier.pdf](http://www.ens.dk/Documents/Netboghandel%20-%20publikationer/2010/Fremtidige_klimatilpasningsteknologier.pdf)
8. Arnbjerg-Nielsen K, Olsen DB, Jørgensen K-R, Christop E, Hasling AB. 2008. *Implementering af det nye badevandsdirektiv til det danske badevandsystem. (Implementation of the new Bathing Water Directive into the Danish control procedures. In Danish)*. Danish Agency for Spatial and Environmental Planning, Copenhagen.  
<http://www.blst.dk/NR/rdonlyres/3799E359-27CB-468F-9721-3A71B215F628/0/badevand.pdf>
9. Arnbjerg-Nielsen K, Olsen DB. 2008. *Vurdering af risiko for smitte med virus ved badning i svømmebade og badevand. (Risk assessment of virus infections when bathing in swimming pools and bathing water. In Danish)*. Danish Agency for Spatial and Environmental Planning, Copenhagen. <http://www2.blst.dk/udgiv/Publikationer/2008/978-87-92256-67-6/pdf/978-87-92256-68-3.pdf>
10. Arnbjerg-Nielsen K. 2008. *Forventede ændringer i ekstremregn som følge af klimaændringer (Anticipated changes in extreme rainfall due to climate change. In Danish)*. Recommendation no. 29. The Water Pollution Committee of The Society of Danish Engineers, Copenhagen.  
[http://ida.dk/netvaerk/fagtekniskenetvaerk/spildevandskomiteen/Documents/SVK\\_Skrift29\\_final.pdf](http://ida.dk/netvaerk/fagtekniskenetvaerk/spildevandskomiteen/Documents/SVK_Skrift29_final.pdf)
11. Cicero and COWI. 2007. *Betydningen for Norden av 2 grader global oppvarming. Vurdering av sårbarhet og effekter av klimaendringer*. TemaNord 2008:507, Nordisk Ministerråd. ISBN 978-92-893-1642-2. <http://www.cicero.uio.no/media/6168.pdf>
12. Arnbjerg-Nielsen K, Fleischer HS, Hansen JH, Olsen DB, Seidelin C, Nielsen T, Kunnerup T. 2007. *Klimatilpasning af afløbssystemer og metodeafprøvning. Økonomisk analyse (Adaptation of urban drainage to climate change. Economic assessment. In Danish)*. Environmental Project 1187. Danish EPA, Copenhagen.  
<http://www2.mst.dk/Udgiv/publikationer/2007/978-87-7052-584-8/pdf/978-87-7052-585-5.pdf>
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*Selected other scientific publications with peer review*

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**Selected projects**

1. Principle Investigator. Water Smart Cities. Innovation Fund Denmark. 2016-2020. Budget 28.3 MDKK.
2. Steering group member, PI. Innovation Network for Water in Urban Areas. Budget line 1.6 MDKK. 2014 – 2018:
3. Principle Investigator. Global Decision Support Initiative at DTU. Internal virtual Centre at DTU. Budget line 1.0 MDKK 2014-2017.

4. Principle investigator. Cooperative Research Center for Water Sensitive Cities. Australian Government Programme. 2012 – 2019.
5. Principle investigator. Future rainfall for urban drainage design, The Foundation for Development of Technology in the Danish Water Sector. 2012 – 2014. Budget line 1.6 MDKK
6. Principle Investigator/Steering Committee Member. RiskChange – Risk-based design in a changing climate (RiskChange). Danish Strategic Research Council. 2011 - 2014.
7. Work Block Lead. Centre for Regional Change in the Earth System. Danish Strategic Research Council. 2009 – 2014.
8. Project Manager. Water in urban areas – strategic partnership for adaptation to climate change and innovation. Council for Technology and Innovation. 2009 – 2014.
9. Project Manager. Future climate change adaptation technologies for water. Danish Ministry of Energy and Climate. 2009 - 2010
10. Task Manager. Urban Runoff Design under influence of Climate Change. DTU Center for Climate Change, 2008 -
11. Project Manager and Specialist. Description of water to the national home page on climate change adaptation. Energistyrelsen, 2008-2008.
12. Task Manager. State-of-the-Nation. Evaluation of Danish infrastructure. Responsible for urban water evaluation. Danish Association of Consulting Engineers. 2008 - 2008
13. Project Manager. Guideline for incorporating anticipated climate change impacts into urban drainage design practice. Danish Water Pollution Committee, Danish Society of Engineers. 2008 – 2008
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