# CURRICULUM VITAE

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| Name | René Capell |
| Date of birth | 1981-04-22 |
| Adress | |
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## EDUCATION AND QUALIFICATIONS

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| PhD (05/2012) | University of Aberdeen, UK. PhD in Hydrology: *Modelling dominant runoff processes using tracers and landscape organisation in larger catchments.* |
| MSc (02/2007) | University of Freiburg, Germany. MSc equivalent (Diplom) in Hydrology with minors Soil science, Limnology. |
| BSc (07/2003) | University of Freiburg, Germany.<br>BSc equivalent (Vordiplom) in Hydrology |
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## PROFESSIONAL CAREER

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| Since 08/2012 | **Researcher,** Swedish Meteorological and Hydrological Institute, Hydrological Research Section, Norrköping, Sweden. |
| 11/2011 – 06/2012 | **Postdoctoral Research Fellow**, Northern Rivers Institute, School of Geosciences, University of Aberdeen, Scotland, UK. |
| 10/2008 – 11/2011 | **Research Postgraduate**, Northern Rivers Institute, School of Geosciences, University of Aberdeen, Scotland, UK. |
| 01/2008 – 08/2008 | **Research assistant**, Section of Engineering Hydrology, RWTH Aachen University, Germany. |
| 01/2007 - 11/2007 | **Research assistant** (parental leave stand-in), Institute of Soil Science and Forest Nutrition, Freiburg University, Germany |
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## ACADEMIC PUBLICATIONS

**Peer-reviewed journal papers**


Akselsson, C., Olsson, J., Belyazid, S. and Capell, R.: Can increased weathering rates due to future warming compensate for base cation losses following whole-tree harvesting in spruce forests?, Biogeochemistry, 128(1–2), 89–105, doi:10.1007/s10533-016-0196-6, 2016.

Nijzink, R., Hutton, C., Pechlivanidis, I., Capell, R., Arheimer, B., Freer, J., Han, D., Wagener, T., McGuire, K., Savenije, H. and Hrachowitz, M.: The evolution of root-zone moisture capacities after deforestation: a step towards hydrological predictions under change?, Hydrol. Earth Syst. Sci., 20(12), 4775–4799, doi:10.5194/hess-20-4775-2016, 2016.

Ceola, S., Arheimer, B., Baratti, E., Bloeschl, G., Capell, R., Castellarin, A., Freer, J., Han, D., Hrachowitz, M., Hundecha, Y., Hutton, C., Lindstrom, G., Montanari, A., Nijzink, R., Parajka, J., Toth, E., Viglione, A. and Wagener, T.: Virtual laboratories: new opportunities for collaborative water science, Hydrol. Earth Syst. Sci., 19(4), 2101–2117, doi:10.5194/hess-19-2101-2015, 2015.

van Vliet, M. T. H., Donnelly, C., Stromback, L., Capell, R. and Ludwig, F.: European scale climate

information services for water use sectors, J. Hydrol., 528, 503–513, doi:10.1016/j.jhydrol.2015.06.060, 2015.

Capell R, Tetzlaff D, Essery R, Soulsby C, Using tracer aided rainfall-runoff models to assess climate change projections on streamflow. *Hydrological Processes*

Capell R, Tetzlaff D, Essery R, Soulsby C, Projecting the effects of climate change on runoff dynamics along a hydroclimate transect using the Scottish North- Watch catchments . *Hydrological Processes*

Capell R, Tetzlaff D, Soulsby C, Can time domain and source area tracers reduce uncertainty in rainfall-runoff models in larger heterogeneous catchments? *Water Resources Research* (in press). doi:10.1029/2011WR011543

Capell R, Tetzlaff D, Hartley AJ, Soulsby C, Linking metrics of hydrological function and transit times to landscape controls in a heterogeneous mesoscale catchment. *Hydrological Processes* 26, 405-420. doi: 10.1002/hyp.8139

Capell R, Tetzlaff D, Malcolm IA, Hartley AJ, Soulsby C (2011), Using hydrochemical tracers to conceptualise hydrological function in a larger scale catchment draining contrasting geomorphic provinces. *Journal of Hydrology* 408, 164-177. doi:10.1016/j.jhydrol.2011.07.034

Tetzlaff D, Capell R, Soulsby C, Land use and hydroclimatic influences on Faecal Indicator Organisms in two large Scottish catchments with contrasting trophic status: towards land use-based models as screening tools. *Science of the Total Environment* (in press). doi:10.1016/j.scitotenv.2011.11.090

Ali G, Tetzlaff D, Soulsby C, McDonnell JJ, Capell R. Catchment classification, catchment similarity indices and catchment exemplars: a cross-regional approach. *Advances in Water Resources* (in press). doi:10.1016/j.advwatres.2012.01.008