

# Marc Girons Lopez

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		<b>Citizenship</b>	Spain

I am a hydrologist with an interdisciplinary background who aims at making society more resilient and sustainable through addressing water-related issues. I am continuously learning about hydrology and water resources management but also about societal behaviour and data analysis. Everything is connected!

## Professional Experience

- aug 2018* — **Hydrologist** • Swedish Meteorological and Hydrological Institute, SMHI (Sweden)  
Officer on duty for the Swedish and European flood warning services and researcher on seasonal streamflow forecasting.
- feb 2017* — *aug 2018* **Postdoctoral Researcher** • University of Zurich (Switzerland)  
My research focuses on improving the realism of the snow routine of the HBV rainfall-runoff model while maintaining a low model uncertainty. Also, I contributed to glacio-hydrological modelling of future peak flows in remote valleys of Tajikistan.
- aug 2011* — *oct 2016* **Graduate Teaching Assistant** • Uppsala University (Sweden)  
Lecturing, leading seminars, and leading and assisting in laboratory and field activities for both undergraduate and graduate courses.
- aug 2011* — *oct 2016* **Graduate Research Assistant** • Uppsala University (Sweden)  
Design and implementation of research projects within hydrology and natural disaster science, including defining research questions, modelling, data analysis, and reporting scientific results.
- jun 2009* — *aug 2009* **Quality Control Intern** • Laboratori Català de Control (Spain)  
Quality control tests of cement, concrete and anchorages. Tests of soil properties, water sampling and analysis. Defining procedures for adopting ISO rules.
- jul 2008* — *sep 2008* **Environmental Consultant Intern** • URS Corporation (Spain)  
Environmental control tests of petrol stations, soil decontamination, and hydrogeological data processing. Fauna and sediment sampling for water quality control of rivers and dams.

## Education

- aug 2011* — *oct 2016* **Doctor of Philosophy (PhD)** • Uppsala University (Sweden)  
*Hydrology and Water Resources Science*  
Thesis: Information Needs for Water Resource and Risk Management: Hydro-Meteorological Data Value and Non-Traditional Information.
- aug 2009* — *jun 2011* **Master of Science (MSc)** • Uppsala University (Sweden)  
*Earth Sciences (Hydrology/Hydrogeology)*  
Thesis: Modelling Climatic and Hydrological Variability in Lake Babati, Northern Tanzania.
- sep 2004* — *jun 2009* **Bachelor of Science (BSc)** • Universitat Autònoma de Barcelona (Spain)  
*Geology*
- aug 2007* — *jun 2008* **Exchange student** • Université Joseph Fourier — Grenoble I (France)  
*Geology and Earth Sciences*

## Selected Publications

(A comprehensive list of publications can be found at [gironslopez.me/publications](http://gironslopez.me/publications).)

Girons Lopez, M., Di Baldassarre, G., and Seibert, J. (2017). "Impact of social preparedness on flood early warning systems". In: *Water Resources Research* 53.1, pp. 522–534. ISSN: 1944-7973. DOI: [10.1002/2016WR019387](https://doi.org/10.1002/2016WR019387).

Girons Lopez, M. and Seibert, J. (2016). "Influence of hydro-meteorological data spatial aggregation on streamflow modelling". In: *Journal of Hydrology* 541, pp. 1212–1220. ISSN: 0022-1694. DOI: [10.1016/j.jhydrol.2016.08.026](https://doi.org/10.1016/j.jhydrol.2016.08.026).

Girons Lopez, M., Wennerström, H., Nordén, L.-Å., and Seibert, J. (2015). "Location and Density of Rain Gauges for the Estimation of Spatial Varying Precipitation". In: *Geografiska Annaler: Series A, Physical Geography* 97.1, pp. 167–179. ISSN: 1468-0459. DOI: [10.1111/geoa.12094](https://doi.org/10.1111/geoa.12094).

## Skills

<b>Programming</b>	Python • Matlab • $\LaTeX$ • R • Fortran • Markdown • Bash
<b>Software</b>	ArcGIS • QGIS • HBV • HYPE • Git • Inkscape • Linux
<b>Instrumentation</b>	Campbell data loggers • hydro-meteorological sensors
<b>Languages</b>	<b>Native</b> Catalan • Spanish <b>Full professional proficiency</b> English <b>Professional working proficiency</b> Swedish • French <b>Elementary proficiency</b> German
<b>Other</b>	Swedish driving license (B)

## Grants, Awards, & Honours

2017	<b>Travel grant</b> • Swiss Association of Geography To participate in the first snow hydrology workshop in Finse (Norway).
2016	<b>EGU's Photo contest</b> • EGU Winner of the 2016 EGU's Photo Contest with the photo <a href="#">Living Flows</a> .
2015	<b>Research Fellowship</b> • CUAHSI To participate in the US National Water Center Innovators Program (NFIE).
2014	<b>Travel grant</b> • Liljewalchs Foundation To participate in th 2016 EGU General Assembly in Vienna (Austria).
2009	<b>Scholarship</b> • Swedish-Spanish Foundation As support during my master studies.
2007	<b>Scholarship</b> • Erasmus Programme To study in Grenoble (France) as an exchange student for a full year.

## Other Activities

2016 —	<b>Translator</b> • Planet Press I translate short scientific articles for kids from the European Geosciences Union (EGU) Planet Press initiative from English to Spanish.
2013	<b>Volunteer</b> • IAHS I volunteered supporting the organisation of the 2013 IAHS, IAPSO, IAPSEI Joint Assembly in Gothenburg (Sweden).

*References available on request.*