

# Marc Girons Lopez

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**Citizenship** 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

- 2018 — **Hydrologist** • Swedish Meteorological and Hydrological Institute, SMHI (Sweden)  
Seasonal forecasting • Ice break-up forecasting • Officer on duty for the Swedish, European (EFAS) and global (Aristotle) hydrological warning services • Large-scale flood forecasting  
• Large datasets • Model development • Research
- 2017 — 2018 **Researcher** • University of Zurich (Switzerland)  
Snow hydrology • Model development • Large datasets • Data scarcity • Model uncertainty
- 2011 — 2016 **Graduate research assistant** • Uppsala University (Sweden)  
Data needs for hydro-meteorological modelling • Socio-hydrology • Social media data
- 2011 — 2016 **Graduate teaching assistant** • Uppsala University (Sweden)  
Lectures • Seminars • Laboratory and field work
- 2009 **Quality control intern** • Laboratori Català de Control (Spain)  
Quality control of cement, concrete and anchorages • Testing of soil properties • Water sampling and analysis
- 2008 **Environmental consultant intern** • URS Corporation (Spain)  
Environmental control tests of petrol stations • Soil decontamination • Hydrogeological data processing • Fauna and sediment sampling

## Education

- 2011 — 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.
- 2009 — 2011 **Master of Science (MSc)** • Uppsala University (Sweden)  
*Earth Sciences (Hydrology/Hydrogeology)*  
Thesis: Modelling Climatic and Hydrological Variability in Lake Babati, Northern Tanzania.
- 2004 — 2009 **Bachelor of Science (BSc)** • Universitat Autònoma de Barcelona (Spain)  
*Geology*
- 2007 — 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., Crochemore, L., and Pechlivanidis, I. G. (2021). "Benchmarking an operational hydrological model for providing seasonal forecasts in Sweden". In: *Hydrology and Earth System Sciences* 25:3, pp. 1189–1209. DOI: [10.5194/hess-25-1189-2021](https://doi.org/10.5194/hess-25-1189-2021).

Girons Lopez, M., Vis, M. J. P., Jenicek, M., Griessinger, N., and Seibert, J. (2020). "Assessing the degree of detail of temperature-based snow routines for runoff modelling in mountainous areas in central Europe". In: *Hydrology and Earth System Sciences* 24, pp. 4441–4461. DOI: [10.5194/hess-24-4441-2020](https://doi.org/10.5194/hess-24-4441-2020).

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., 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 • L <sup>A</sup> T <sub>E</sub> X • R • Fortran • Markdown • Bash
<b>Software</b>	ArcGIS • QGIS • GRASS GIS • LISFLOOD-FP • 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> • Association Suisse de Géographie
2016	<b>Scientific photo contest winner</b> • EGU
2015	<b>Research fellowship</b> • CUAHSI
2014	<b>Travel grant</b> • Liljewalchs Foundation
2009	<b>Scholarship</b> • Swedish-Spanish Foundation
2007	<b>Scholarship</b> • ERASMUS

## Other activities

2016 —	<b>Translator</b> • Planet Press
2013	<b>Volunteer</b> • IAHS