

Marc Girons Lopez

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Birth	5 September 1986, Barcelona (Spain)	Github://	GironsLopez
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EDUCATION

2016	PhD, Hydrology Uppsala University, Uppsala (Sweden)
2011	MSc, Earth Sciences (Hydrology/Hydrogeology) Uppsala University, Uppsala (Sweden)
2009	BSc, Geology Universitat Autònoma de Barcelona (UAB), Barcelona (Spain)
2008	ERASMUS Program Université Joseph Fourier (Grenoble 1), Grenoble (France)

PUBLICATIONS

PEER-REVIEWED PUBLICATIONS

Girons Lopez, M., Seibert, J. (2016). Influence of Hydro-Meteorological Data Spatial Aggregation on Streamflow Modelling. *Journal of Hydrology*, 541, 1212-1220. doi:10.1016/j.jhydrol.2016.08.026

Girons Lopez, M., Wennerström, H., Nordén, L.-Å., Seibert, J. (2015) Location and density of Rain Gauges for the Estimation of Spatial Varying Precipitation. *Geografiska Annaler. Series A, Physical Geography*, 97, 167-179. doi:10.1111/geoa.12094

MANUSCRIPTS UNDER REVIEW

Girons Lopez, M., Di Baldassarre, G., Seibert, J. (2016). Assessing the Impact of Social Memory on Flood Early Warning Systems. *Manuscript under review*.

Mbanguka, R. P., Lyon, S. W., Holmgren, K., **Girons Lopez, M.**, Jarsjö, J. (2016). Water Balance and Level Change of Lake Babati, Tanzania: Sensitivity to Hydroclimatic Forcings. *Manuscript under review*.

MANUSCRIPTS IN PREPARATION

Rivera, S., **Girons Lopez, M.**, Seibert, J., Minsker, B. (2016). Probabilistic Flood Mapping Using Volunteered Geographical Information. *Manuscript in preparation*.

THESES

Girons Lopez, M. (2016) Information Needs for Water Resource and Risk Management:

Hydro-Meteorological Data Value and Non-Traditional Information *PhD Thesis, Uppsala University, Sweden*. ISBN:978-91-554-9679-1

Girons Lopez, M. (2011) Modelling Climatic and Hydrological Variability in Lake Babati, Northern Tanzania. *Master Thesis, Stockholm University, Sweden*. OAI:DiVA.org:su-114009

CONFERENCE CONTRIBUTIONS

Girons Lopez, M., Di Baldassarre, G., Seibert, J. (2016) Impact of Social Memory on the Efficiency of Flood Early Warning Systems (FEWS). *13th Congress INTERPRAEVENT 2016, Lucerne, Switzerland*.

Girons Lopez, M., Di Baldassarre, G., Grabs, T., Halldin, S., Seibert, J. (2016) Exploring the Role of Social Memory of Floods for Designing Flood Early Warning Operations. *EGU General Assembly, Vienna, Austria*.

Rivera, S., **Girons Lopez, M.**, Minsker, B., Seibert, J. (2015) Probabilistic Flood Mapping using Volunteered Geographical Information. *3rd CUAHSI Conference on Hydroinformatics, Tuscaloosa, Alabama*.

Girons Lopez, M., Seibert, J., Halldin, S., Wennerström, H. (2013) Value of distributed precipitation for flood early warning: A case study for a pre-alpine catchment in Switzerland. *Knowledge for the Future - Joint IAHS-IAPSO-IASPEI Assembly, Gothenburg, Sweden*.

Mbanguka, R. P., **Girons Lopez, M.**, Jarsjö, J. (2013) A Water Balance Model for Assessing Hydro Climatic Variability in Tropical Lake Systems: Application to Lake Babati and Lake Emakat, Northern Tanzania. *EGU General Assembly, Vienna, Austria*.

GRANTS, AWARDS, & HONOURS

2016	EGU Photo contest 2016 winner
2015	CUAHSI Research Fellowship to participate in the National Flood Interoperability Experiment (NFIE) at the US National Water Center (Tuscaloosa, Alabama)
2014	Liljewalchs travel grant
2010	The Swedish-Spanish Foundation for the Promotion of Education and Studies Scholarship
2007	ERASMUS Scholarship

RESEARCH PROJECTS

- Involved in the Swedish Natural Disaster Mitigation Research School.
- Involved in the National Flood Interoperability Experiment

TEACHING

TRAINING

2015 Academic Teacher Training Course II
Uppsala University, Uppsala (Sweden)

INSTRUCTOR

Climate and Landscape

Uppsala University, Spring 2013

Taught the part of the course related with water in the landscape

Hydrology and Water Resource Management

Uppsala University, Autumn 2012 - 2016

Taught the part of the course related with atmospheric water, led field runoff measurements and a water balance estimation project, constructed and graded exams.

Field Methods in Earth Science

Uppsala University, Spring 2015 - 2016

Taught how to use data loggers for environmental modelling and led a project on evapotranspiration estimation based on field measurements.

Groundwater and Surface Water Modelling

Uppsala University, Spring 2015 - 2016

Taught the fundamentals of hydrological with HBV, led a project on hydrological modelling and held a seminar.

TEACHING ASSISTANT

Meteorology, hydrology and Environmental Measurement Techniques

Uppsala University, Autumn 2013 - 2016

Led numerical exercise solving sessions, field measurements of a number of hydrological processes and processing of field data.

Distribution and Treatment of Drinking Water

Uppsala University, Autumn 2011 - 2012

Assisted students during laboratory work, graded exercises and exams.

GIS for Water Resources

Uppsala University, Spring 2012 - 2016

Constructed laboratory instructions and assisted students during laboratory work.

Runoff

Uppsala University, Autumn 2012 - 2014

Assisted students during laboratory work.

Soil Mechanics and Engineering Geology

Uppsala University, Autumn 2012 - 2015

Reviewed concepts of classical mechanics at the beginning of the course and graded exercises.

Groundwater and Runoff modelling

Uppsala University, Autumn 2012 - 2014

Led a project on hydrological modelling using HBV and graded reports.

Statistical Methods in Hydrology

Uppsala University, Spring 2012

Graded exams.

Snow Physics and Hydrology

Uppsala University, Fall 2015

Assisted students during laboratory work.

Field Course in Earth Science II

Uppsala University, Spring 2013 - 2014

Led field measurements of a number of hydrological processes.

Global Hydrology

Uppsala University, Autumn 2011

Led topographic field measurements.

OTHER ACADEMIC ACTIVITIES

2016 Translator for EGU's Planet Press outreach initiative

- Picturing the Northern Lights (Spanish translation)
- Tiny Plankton could have a big impact on Earth's climate (Spanish translation)
- Half a degree makes a world of difference (Spanish translation)

OTHER EMPLOYMENT

2009 Lab technician intern

Laboratori Català de Control (Barcelona, Spain)

Quality control of soils and construction materials for civil engineering projects as well as water analyses and adoption of ISO rules.

2008 Consultant intern

URS (Barcelona, Spain)

Environmental control tests, soil decontamination and hydro-geological data processing as well as limnology field work for quality control of riverine systems.

REPRESENTATION DUTIES

2014 - 2016 PhD student representative at the Centre for Natural Disaster Science (CNDS) Program board

2013 PhD student representative at the Department of Earth Sciences Board, Uppsala University, Uppsala, Sweden

2007 Student representative at the Geology Section Board, Universitat Autònoma de Barcelona, Barcelona, Spain

SKILLS

FIELD WORK

Campbell loggers • Hydro-meteorological sensors

PROGRAMMING

Python • Matlab • \LaTeX • Markdown

SOFTWARE

ArcGIS • QGIS • HBV

LANGUAGES

Native: Catalan • Spanish

Fluent: English • French

Intermediate: Swedish