

Curriculum Vitae of Sonia Herrero

Personal information

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Education

Since 09/2015 **Doctoral student**

Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) and Berlin Institute of technology (TU Berlin), Germany.

Topic: GHG emissions and fluxes across boundaries in urban waters. DFG granted graduate program "Urban Water Interfaces".

Skills: Biogeochemistry (Aquatic ecology sampling methods, basic aquatic chemistry analytical methods, DOM and CO₂ / CH₄ Spectrophotometry, gas chromatography, water and sediment sensors and probes knowledge), microbiology knowledge, basic molecular biology methods, R language, Geographic information systems (QGIS, ArcGIS). Supervision of undergraduates (5 students during 2016); Department seminars organizer.

Supervisors: Mark. O. Gessner, Peter Casper, Gabriel Singer and Birgit Kleinschmit.

2013-2015 **M.Sc. in aquatic ecology**, Uppsala University, Sweden.

Degree project: Effect of beaver ponds in the methyl-mercury levels and correlation with organic carbon quality and effect on community composition. June, 2015.

Supervisors: Andrea Garcia Bravo, Stefan Bertilsson.

2008-2013 **Bachelor in Biology**, Complutense University of Madrid, Spain.

Degree project: Study of the seed bank of a saline temporary lagoon.
Supervisor: Dr. Santos Cirujano, Real jardín botánico- CSIC. Madrid.

Relevant work history

- Aug- Sept / 2014 Research assistant, August- September / 2014, plant ecology department, Uppsala University.
- Jun- Aug / 2014. Research internship, June- August / 2014. Department of genetics and ecology under supervision of Eva Lindström, Uppsala University, Sweden.
- Sep 2012-
Jan / 2013 Research internship, September 2012- January / 2013, Ecology Department under supervision of José Manuel de Miguel, Complutense University of Madrid, Spain.

Project collaboration

- Urban water interfaces (UWI)*. DFG funded graduate school. Join project between Berlin Institute of technology (TU Berlin) and Leibniz- Institute of Freshwater Ecology and Inland Fisheries (IGB).2015-2019. *PhD student in the project.*
- Eurorun- Assessing CO₂ fluxes from European running water*. European Federation of Freshwater Sciences (EFFS) funded project 2016-2017. Led by Pascal Bodmer and Katrin Attermeyer. *Member of the German team.*
- AGRHYDROM*. Iberian association of limnology funded young collaborative project 2016-2018. Led by Eurne Estevez and Ruben del campo. *Member of the German team.*

Publications in peer-reviewed journals

- Herrero Ortega, S.,** Catalán, N., Björn, E. et al. (2017). High methylmercury formation in ponds fueled by fresh humic and algal derived organic matter. *Limnology and oceanography*. doi:10.1002/lno.10722
- Catalán, N., **Herrero Ortega, S.,** Gröntoft, H. et al. (2017). Effects of beaver impoundments on dissolved organic matter quality and biodegradability in boreal riverine systems. *Hydrobiologia*, 793:135. doi.org/10.1007/s10750-016-2766-y

Conference and symposia

- 07/2017 **10th Symposium for European Freshwater Sciences, Olomouc, Czech Republic**
Talk: "Spatio-temporal patterns in methane emissions from temperate urban fresh waters"
- 04/2017 **5th Meeting of Fresh Blood for Fresh Water, České Budějovice, Czech Republic**
Talk: "Aquatic methane emissions in urban areas"
- 07/2016 **18th Iberian Association of Limnology meeting, Tortosa, Spain**
Talk: "Effects of beaver damming on the formation of the toxic methylmercury"

04/2015 **4th Meeting of Fresh Blood for Fresh Water, Mondsee, Austria.**
Talk: “Do beaver ponds affect mercury methylation by changes in DOM and nutrient status?”

Memberships:

Iberian association of limnology (AIL)

Association for the Sciences of Limnology and Oceanography (ASLO)