

Hugo Rudebeck

Address: Folkborgsvägen 17, Norrköping

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Curriculum Vitae

Education

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|-------------------|--|
| 2023 -
Ongoing | PhD Student in Water Resource Engineering
Lund University |
| 2012 - 2018 | Master of Science in Water and Environmental Engineering
Uppsala University |
| 2015 - 2016 | Erasmus exchange within the Master Programme in Water and Environmental Engineering
Universidad Autónoma de Madrid. |

Work Experience

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|------------------------------------|---|
| April 2022 -
Ongoing | <i>Junior researcher and developer</i>
SMHI
-Research focus on hydrological extremes
-Officer on duty within the national hydrological warning service |
| June 2021 -
March 2022 | <i>Research assistant</i>
Uppsala University, Department of Ecology and Genetics
-Lake ice quality changes in a warmer world and consequences for ice safety |
| February
2020 -
May 2021 | <i>Hydraulic engineer</i>
Norconsult AB
-Flood modelling.
-Flow calculations.
-GIS. |
| September
2018 -
January | <i>Teaching/Project assistant</i>
Uppsala University, Department of Information Technology
-Course: Empirical Modelling. 2020
-Responsible for computer exercises and project supervision. |
| February
2008 -
January 2020 | <i>Research assistant</i>
Swedish University of Agricultural Sciences, Uppsala, Department of Aquatic Sciences and Assessment
Field and laboratory assistant in several different research and environmental monitoring projects.
-DNA measurements with qPCR.
-Data and statistical analysis.
-Preparation of aquatic samples for analysis.
-Inventory of macrophytes in wildfire affected area.
-Preparation of samples to determine biomass. |

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April – July *Research Assistant*

2019 Katholieke Universiteit Leuven (KU Leuven), Division of Soil and Water Management

-Microwave remote sensing of tropical peatlands.

-Land-use modeling.

Publications

Towards critical white ice conditions in lakes under global warming – Nature Communications

Hydrological Droughts in Sweden – Master thesis at Uppsala University, 30 ECTS

Languages

Swedish: native language.

English: fluent.

Spanish: can read and understand scientific and fictional texts as well as making myself understood in and understand oral conversations..

IT and Programming Languages

Proficient in: **MATLAB, Python, HEC-RAS, ArcMap, Excel**

Competent in: **MODFLOW, MIKE**

Basic knowledge in: **R, jmp, C++, AQTESOLV**

Additional Information

July-August 2016 Minor Field Study in Kenya (sponsored by the Swedish International Development Cooperation Agency, SIDA), nine-week project investigating the properties of gasifier stove biochar from small-holder farms on the Kenyan countryside. Swedish University of Agricultural Sciences and International Institute of Tropical Agriculture (IITA).