

# HÉLÈNE BARRAS

ASPIRING ATMOSPHERIC SCIENTIST

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## EDUCATION

July 2017 – now  
**PhD Climate Sciences – University of Bern and MeteoSwiss**  
Thesis (working) title: The prediction of hail in Switzerland  
Supervised by Prof Dr. Olivia Romppainen-Martius  
Co-Supervised by Dr. Urs Germann and Dr. Alessandro Hering

September 2014 – October 2016  
**M.Sc Climate Sciences - Focus on Atmospheric Sciences - University of Bern**  
Master's Thesis title: "Verification of strong wind gusts in COSMO-2"  
Supervised by Prof. Dr. Olivia Romppainen-Martius, advised by Dr. Simona Trefalt

August 2010 – January 2014  
**B.Sc. Geosciences - University of Basel**  
Major: Meteorology; Minor: Physical Geography  
Final-year dissertation: "Wind climatology in the region of Basel"  
Supervised by Prof. Dr. Eberhard Parlow, advised by Dr. Roland Vogt

## RELEVANT WORK EXPERIENCE

October 2016 – June 2017  
**Internship at MeteoSwiss**  
Main tasks: Calculation of cloud climate indices with satellite data, verify them with SYNOP data, conduct a user consultation for the development of new climate indices

March 2014 – January 2015  
**Internship II at meteoblue AG**  
Main tasks: Same as Internship I + Development of routines for validation of measurements, produce process manual for providing MOS simulations, translations from/to GE/FR/EN

November – December 2013  
**Internship I at meteoblue AG**  
Main tasks: Validation of measurements (programmed in IDL), produce reports on potential use of MOS forecasts for measurement locations

## TEACHING ASSISTANCE

fall 2017 Tutor for lecture Meteo3

## SKILLS

Computing High level of competency in using **R, IDL, NCL, CDO, Unix/Linux**  
Basic level in **Python**  
MS Word, Excel, PowerPoint, Latex

Languages **French:** native proficiency  
**(Swiss) German:** native proficiency  
**English:** professional working proficiency