

# Curriculum Vitae

**Laura Orschler**



## EDUCATION:

08/2008 - 06/2011: Alfred-Delp-Schule, Dieburg  
major field of study: English and mathematics  
June 2011: university entrance diploma

## STUDY:

10/2014 - today study course water science (M.Sc.) at the university of  
Duisburg-Essen;  
expected graduation: 10/2016

### **focus of studies:**

basics in organic and inorganic chemistry, analytical  
chemistry with focus: water chemistry, microbiology,  
hygiene, statistics

### **relevant practical courses:**

microbiology: basic techniques like handling of a  
microscope, production of culture medium, isolation of  
microorganisms and detection of coliform bacteria  
biochemistry and molecular biology: basic techniques like  
isolation of antibiotic producing bacteria, induction of  
enzymes, reproduction of phages and recombinant  
expression of proteins

10/2011 - 09/2014: study course: water science (B.Sc.) at the university of Duisburg-Essen  
Bachelor thesis: "Comparison of two methods to determine the assimilable organic carbon (AOC) in drinking water" (grade: 1,7)

#### IT-SKILLS:

Operating systems: OS X Yosemite – very good knowledge  
Windows 7 – good knowledge  
Computer skills: MS Word – very good knowledge  
MS Excel – good knowledge  
MS Powerpoint – very good knowledge  
Software: software for statistics R – good knowledge

#### LANGUAGES:

German: native language  
English: fluent

#### PROFESSIONAL EXPERIENCE:

- 04/2016 - today internship at the University of Washington, Department of civil and environmental engineering, working on the topic "combining ammonium-oxidizing archaea with anammox granular sludge for mainstream nitrogen removal" as part of the master thesis
- 01/2016 - 03/2016 internship at the University of Duisburg-Essen, Department of analytical chemistry, collaborating on the topic "formation and effect of transformation products by using advanced oxidation processes in wastewater treatment"
- analytic sample preparation
  - working and handling of ozone
  - determination of transformation products with HPLC
- 08/2015 - 09/2015 internship at the Helmholtz-Research Centre for Groundwater Ecology (Munich) collaborating on the topic "anaerobic degradation of naphthalene in groundwater"
- anaerobic laboratory work, e.g. anaerobic media preparation
  - aerobic and anaerobic enzyme assays

- determination of degradation intermediates with HPLC and GC

05/2014 - 08/2014

internship at the DVGW-research centre Hamburg-Harburg as part of the bachelor thesis

- determination of the assimilable organic carbon by van der Kooij
- determination of the assimilable organic carbon by Hammes & Egli
- handling of a flow cytometer
- sampling of groundwater samples for different steps of a treatment plant

#### FURTHER EDUCATION:

03/2015:

DVGW-conference of experts: microbial load of water meter: progress review – current technical challenges – new calibration law – water meter management

12/2013:

sampling of drinking water samples for the official monitoring analysis

#### SCHOLARSHIPS:

Recipient of PROMOS Scholarship 2016 from DAAD

#### VOLUNTEER WORK:

02/2015 - today:

volunteer work for the water initiative „Viva con Agua de St. Pauli e.V.“

08/2008 - 06/2010

childrens' trainer at the rowing club Aschaffenburg

08/2006 - 06/2008

organization of youth leisure time at the rowing club Aschaffenburg

#### INTERESTS:

rowing, running, swimming, reading

#### SPARE-TIME WORK:

08/2014 - today

service employee at the football club Borussia Dortmund

01/08 - 01/11:

service employee at the cinema Kinopolis Aschaffenburg