



CURRICULUM VITAE

Karen Ullrich

CONTACT

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Year of Birth: 1990

EDUCATION

PhD Machine Learning, supervised by Max Welling Nov 2015 - present
University of Amsterdam, Faculty of Science, Amsterdam (Netherlands)

Master of Science, Computational Science Sep 2012 - Sep 2014
University of Amsterdam, Faculty of Science, Amsterdam (Netherlands)

Bachelor of Science, Physik (Physics) Oct 2009 - Jun 2012
Universität Leipzig, Fakultät für Physik und Geowissenschaften, Leipzig (Germany)

WORK EXPERIENCE

Researcher, Sep 2014 - Oct 2015
Austrian Research Institute for Artificial Intelligence (OFAI), Freyung 6/6, Vienna
(Austria)
Topological aspects of deep learning in particular with respect to the curse of
dimensionality.

Master intern, Nov 2013 - Sep 2014
Austrian Research Institute for Artificial Intelligence (OFAI), Freyung 6/6, Vienna
(Austria)
First steps in deep learning with an application in music segmentation (publica-
tions available).

Research assistant, Jul 2013 - Sep 2013
Uniklinikum Leipzig in collab. with the Max Planck Institute for Human,
Cognitive and Brain Sciences, Leipzig (Germany)
Analysis of high-Tesla diffusion MRI data, location and evaluation of clusters.

Research intern, Mar 2012 - Sep 2012
Biophysics Group, Universität Leipzig, Augustusplatz 10, Leipzig (Germany)
Development (hardware and software) of a spatial tissue stretcher.

Bachelor intern, Jul 2011 - Jul 2012
Helmholtz Center for Environmental Research, Brückstraße 3a, 39114 Magdeburg
(Germany)
Development of a novel carbon dioxide measurement method.

Student assistant, Apr 2011 - Jun 2012

Theoretical Physics, Universität Leipzig, Augustusplatz 10, Leipzig (Germany)
Teaching support.

Research intern,

Feb 2011 - Apr 2011

Solarion AG, Ostende 5, 04288 Leipzig (Germany)

Development of an analysis software for thin-film photo-voltaic wavers.

SKILLS

Programming languages:

> 5000 lines:

- Python (Thenao, tensorflow, pyTorch, scikit-learn)

< 5000 lines:

- lua (Torch), Matlab, Mathematica, R,
- C (Open MPI), Pascal, Fortran,
- Java, Unix

Mathematics and sciences:

- Calculus for physicists I - VI, Algebra, Numerical Algorithms, Information Theory, Graph Theory, Group Theory
- Experimental Physics I - IV, Theoretical Physics I - VI, Lab Sessions
- Molecular Simulations, Stochastic Simulations, Machine Learning
- General and Organic Chemistry, Environmental Physics

Prototyping:

- Raspberry-Pi, Arduino, Google SketchUp, 3D-printing
- Sewing, soldering, woodworking

Languages:

- German (mother tongue)
- English (C2)
- Dutch (B2), French (A2)