CURRICULUM VITAE

Karen Ullrich

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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 Artif cial 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 Artif cial Intelligence (OFAI), Freyung 6/6, Vienna (Austria)
First steps in deep learning with an application in music segmentation (publications 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 dif usion 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:*
- **Python** (Thenao, tensorflow, scikit-learn), lua (Torch), Matlab, Mathematica, R
- **C/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)