Maximilian Kohl - PhD Application - molecularbiophysics

September 13, 2016

1 PhD Application

This is a proposal to join the Jan Lipfert group as PhD student to develop Deep Learning techniques to ...

elaborate on how you have developed the relevant skills required for the job, and any relevant experiences or education you have acquired. Providing an example can help you emphasize your point. Of equal importance is your argument for how your interest in both the job and the organization developed. You will want to ensure that you include your interest why it would be a logical decision on their part to hire you.

I am highly motivated to build on and extend my knowledge in information sharing and data analysis working as a PhD Student. Parallel computation, algorithms development in R/Python/Scala and the communication of results (e.g. online with Jupyter Notebooks, JavaScripts) are my special interest.

[?] [?] [?]

I am a Data Scientist at Cognizant GmbH. My current area of focus is distributed cloud computing in R and Spark. I work on the Microsoft Azure platform where I employ Machine Learning Algorithms on web servers and make use of web APIs to access these prediction and classification services in other web applications.

References Müller, Jochen P., Salomé Mielke, Achim Löf, Tobias Obser, Christof Beer, Linda K. Bruetzel, Diana A. Pippig, et al. 2016. "Force Sensing by the Vascular Protein von Willebrand Factor Is Tuned by a Strong Intermonomer Interaction." Proceedings of the National Academy of Sciences of the United States of America 113 (5): 1208–13. doi:10.1073/pnas.1516214113.

Vanderlinden, Willem, and Steven De Feyter. 2013. "Chain Relaxation Dynamics of DNA Adsorbing at a Solid–liquid Interface." Nanoscale 5 (6): 2264–68. doi:10.1039/C3NR34231J.

Wiggins, Paul A., Thijn van der Heijden, Fernando Moreno-Herrero, Andrew Spakowitz, Rob Phillips, Jonathan Widom, Cees Dekker, and Philip C. Nelson. 2006. "High Flexibility of DNA on Short Length Scales Probed by Atomic Force Microscopy." Nature Nanotechnology 1 (2): 137–41. doi:10.1038/nnano.2006.63.

2 CV

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<td style="border: 1px solid white; background-color: #dedede">Since 2016</td>
<td style="border: 1px solid white; background-color: #dedede"><b>Data Scientist</b

<td  style="border: 1px solid white; background-color: #dedede">2014 - 2015</td>
<td style="border: 1px solid white; background-color: #dedede"><b>Knowledge Manager
```

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<td style="border: 1px solid white; background-color: #dedede">2014 - 2015</td>
<td style="border: 1px solid white; background-color: #dedede"><b>Data Analyst</b>,

<td style="border: 1px solid white; background-color: #dedede">2011 - 2013</td>
<td style="border: 1px solid white; background-color: #dedede"><b>M.Sc. Physics</b>

<td style="border: 1px solid white; background-color: #dedede">2009 - 2010</td>
<td style="border: 1px solid white; background-color: #dedede"><b>B.Sc. Physics - S

<td style="border: 1px solid white; background-color: #dedede">2008 - 2011</td>
<td style="border: 1px solid white; background-color: #dedede"><b>B.Sc. Physics</b>
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Full CV - PDF

3 Publications

Kohl, M., D. Iribarren, F. Petrakopoulou, and J. Dufour. 2013. "Life Cycle Assessment of Bioethanol from Microalgae." 21st European Biomass Conference. doi:10.5071/21stEUBCE2013-5DO.12.5.

4 Study Transcript

B.Sc. Physics

M.Sc. Applied Physics

5 Project Transcript

Below is a graphical overview of a selection of my coding skills and past projects. The circles are projects, grouped by employer (thinkstep/cognizant/on my own). The size of the circle is a (subjective) measure of experience gain.

–> Please click on the graphic to get to the full interactive version! <font color="#c5c5c5"><–

6 Let's go

Let's get in touch!

Created with Jupyter Notebook and Vorfreude.

```
In [18]: #HTML style code
         from IPython.core.display import display, HTML
         display(HTML("<style> .container { width:50% !important; } div.text_cell_r
```

```
<IPython.core.display.HTML object>
```

```
In [2]: import os
        os.environ['PATH']
```

```
Out[2]: '/Users/maximiliankohl/anaconda/bin:/Library/Frameworks/Python.framework/Ve
```

```
In [ ]:
```