



# Laura Hartgers

## Curriculum Vitae

### Education

- Apr 2016 - Sep 2019 **Bachelor of Science, Applied Computer Science**, HTW *University of Applied Sciences*, Berlin, *GPA: 1.6 German grading system*.  
Focus on Data Science incl. Machine Learning and Neural Networks
- Sep 2005 - Feb 2010 **Bachelor of Health, Nutrition and Dietetics**, HAN *University of Applied Sciences*, Nijmegen, NL, *GPA: 7.1 Dutch grading system*.  
Comparative grades: DE: Good USA: B+ UK: B upper 2nd
- Sep 1999 - Jul 2004 **HAVO, Culture and Society Profile**, EIGENWIJS *High School*, Nijmegen, NL, *GPA: 7.3 Dutch grading system*.  
Comparative grades: DE: Good USA: A UK: A- upper 2nd

### Bachelor's Thesis

- Jun 2019 - Sep 2019 *Finding related documents in knowledge bases*  
Supervisors Prof. Dr. Christin Schmidt & Torben Meyer zu Natrup  
Description This thesis explores ways to find semantically similar documents to a main document. We utilize an Elasticsearch/BM25 approach as a baseline which we compare to a nearest neighbor search in document embeddings build with language models ELMo and SpaCy.

### Experience

- Oct 2019–Present **Machine Learning Engineer**, NEOFONIE GMBH, Berlin.  
As part of the Research Team, I am focussed on enhancing search experiences and building text analytics software. I experiment and build both pragmatic and novel solutions.
- Apr 2019 - Sep 2019 **Intern Data Science & Bachelor's degree candidate**, SOPRA STERIA CONSULTING, *DigiLab's AI Team*, Germany.  
Research and development of ideas concerning data science techniques, so they can be used to further aid customers of Sopra Steria. Customers are both in the the industry (e.g. banking, insurance, telecommunications) as well as in public sector. I was tasked with semantic search on text data and knowledge bases.
- Sep 2018 - Sep 2019 **Student member of the examination board**, HTW *University of Applied Sciences*, Berlin.  
The examination board is appointed by the faculty committee for each study program and it decides on issues concerning the accreditation and assessments of modules and examinations, special hardship cases, and potential disadvantage compensation.

- Oct 2017 - Mar 2018 **Working Student Software Development**, 4FLOW, Berlin.  
Java, agile teamwork. Contribute to a large software system with two hundred colleagues worldwide.
- Feb 2015 - Apr 2016 **Sabbatical**.  
Spent some time to realign myself, gain new insights and a different outlook on the future. This was a necessary yet courageous endeavour that didn't have a job title. It was quite important to my overall development. Furthermore, it explains the switch from Nutrition to Computer Science.
- Nov 2014 - Feb 2015 **International Call Center Agent in Customer Service**, ZALANDO LOUNGE, Berlin.  
Customer service employee and translator for international clients.
- Mar 2013 - Dec 2015 **Writer and hobby journalist**, RAGHERRIE.COM.  
Redaction work, reviewing and writing about music albums and festivals. Allowed me to visit multiple festivals and to do interviews with internationally known musicians.
- Jan 2013 - May 2014 **Account manager data recovery Germany**, DATARECOVERY NEDERLAND & DATENRETTUNG DRN, Uden, NL.  
Translator, secretary, SEO writer and customer service employee.
- Sep 2011 - Dec 2013 **Employee in a restaurant**, GOSSIMIJNE, Uden, NL.  
Waitress, customer service employee.
- Sep 2010 - May 2012 **Practice as a self-employed licensed dietitian**, DIËTISTENPRAKTIJK LAURA HARTGERS, Uden, NL.  
Running my own practice as a licensed dietician for individual consultation and group therapy. Coaching people to make healthier nutritional and lifestyle choices.
- Sep 2008 - Feb 2009 **Intern Diet Consultation and Nutritional Optimization**, BRABANTZORG, Veghel, NL.  
Rated "very good" for analytical skills, communication, compassion and teamwork.
- Sep 2005 - Oct 2011 **Part-time contractor for equine care**, HENDRIKS, Uden, NL.  
Responsible for horses and stable management during holidays.

## Further development and training

- 2017 - Present **Meetups about data science, software development and engineering**: Tech Talks by GOOGLE RESEARCH, Software Craftsmanship by SOFTWERKSKAMMER, Berlin  
Machine Learning Group, PYLADIES & WOMEN WHO CODE, Berlin
- 2015 **Python Co-Learning**, OPENTECHSCHOOL, Berlin
- 2014 **Course: Assertiveness and Communication**, DE VUURVLINDER, M. van Duijl- van de Graaf, Boxtel, NL
- 2011 **Course: Starting your own Business**, TOEKOMST DOOR ONDERNEMERSCHAP, J. Janssen & M. Ton, Uden, NL

## Computer skills

### Programming and script languages

- Intermediate PYTHON, JAVA, L<sup>A</sup>T<sub>E</sub>X, SCALA, OCTAVE/MATLAB
- Basic C, BASH, XML, HTML, JAVASCRIPT

### Operating Systems

- Intermediate Linux, Microsoft Windows, MacOS

### Database Management Systems

- Intermediate PostgreSQL, MySQL & MongoDB

### Applications

- Intermediate Git, Gephi, Visual Paradigm, JetBrains products like IntelliJ & PyCharm

## Miscellaneous projects and project skills

Machine Learning & Neural Networks, for example my project BALO: Building a Band Logo Generator with Generative Adversarial Networks, including a basic GAN, a Deep Convolutional GAN and a Conditional GAN, utilizing Keras & TensorFlow

WIKIPLAG: comparison and development of algorithms to detect plagiarism from Wikipedia articles, using SCALA, Spark and NoSQL DB Cassandra

Word Embeddings like Word2Vec and GloVe, Language Models like spaCy and ELMo

Building a social graph from Twitter data, and visualize it with Gephi

Building a Web-crawler

Data preprocessing, both on text and image data

Building a data set for various purposes

Building a RESTful Webservice with Java EE, Jersey, Hibernate & Tomcat

Clean Code

Agile Methods: Scrum, Extreme Programming

Test Driven Development & Pair Programming

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## Languages

Dutch	<b>Advanced fluency</b>	<i>First language</i>
German	<b>Advanced fluency</b>	<i>Native speaker level</i>
English	<b>Intermediate fluency</b>	<i>Conversationally fluent</i>
French	<b>Basic fluency</b>	<i>Basic words and phrases only</i>