

# Curriculum Vitae

Ulf Aslak Jensen

Telephone: 052-7410837  
E-mail: ulfaslak@gmail.com  
Website: ulfaslak.com  
Date of birth: 02/02-1990



## Summary

Master student at the Technical University of Denmark (DTU), pursuing a degree in Digital Media Engineering with focus on Data Science. Former data scientist at Trustpilot, and seasoned teaching assistant at DTU. Currently stationed in Israel as a visiting research student at the Weizmann Institute of Science writing a master thesis on archetypes in social data. Career minded person that finds tremendous joy in joining industrial and academic knowledge to create better solutions.

## Personal description

I am born in Denmark, half Icelandic, the youngest of three. I come from an upbringing of frequent traveling and have brought this habit into my adult life. I lead an active lifestyle with lots of cycling, yoga and skateboarding. I'm good at social situations, good at presenting, teaching and explaining my work, and most effective in projects with equal parts teamwork and alone-work. My level of ambition, my compassionate and contentious nature and the volume of experience I have gained from working together with companies, as an intern, a student assistant and a consultant has put me in the front row of candidates my age. I think openly and creatively when exploring new problems, and can apply state-of-the-art data analysis tools and signal processing theory to large datasets. I am an expert Python programmer, I have a keen artistic eye for data visualization design and, with a background in physics, I know my machine learning and statistics.

## Work Experience

|                |   |
|----------------|---|
| jun.–dec. 2015 | <b>Data Scientist (part time) Trustpilot A/S, Copenhagen</b><br>Data analysis and software development using Python, R and C#. Working with machine learning algorithms to detect fake reviews on Trustpilot. This job started as an internship.        |
| 2014–2015      | <b>Consultant Animation Artist Sterlitech Corporation, Seattle/Web</b><br>Producing 3D animation videos using Blender, Python and HPC technology, as substitutes for live product demos.  |
| jan. 2013–     | <b>Teaching Assistant DTU (Technical University of Denmark), Lyngby</b><br>Teaching assistant in 'Physics 1' (jan. 2013–jun. 2015) and 'Computational Tools for Big Data' (aug. 2015–). In-class problem solving assistance and correction of homework. |
| 2011–2013      | <b>Review Analyst Popular AB, Stockholm/Web</b><br>Picking out good quotes from movie and album reviews. Developing visual assistance tools using JavaScript and Python.  |

## Education

|           |  |
|-----------|--|
| 2014–     | <b>M.Sc Engineering, Digital Media Engineering.</b> DTU (Technical University of Denmark)<br>Average: 11.0 (GPA: 3.8)              |
| 2012      | <b>Student exchange, Physics and Nanotechnology.</b> NUS (National University of Singapore)  |
| 2010–2014 | <b>B.Sc Engineering, Physics and Nanotechnology.</b> DTU (Technical University of Denmark). Average: 8.1 (GPA: 3.0) Thesis: 12 (A) |
| 2007–2009 | <b>Upper secondary programme, Mathematics/Physics.</b> Gribskov Gymnasium<br>Average: 10.0 (GPA: 3.3)                              |
| 1995–2005 | <b>Grade school,</b> Tingbakkeskolen, Esrum/Esbønderup<br>Average: 11.0 (GPA: 3.8)   |

## Volunteer work

|              |   |
|--------------|---|
| apr. 2015    | <b>Member of the Board of Appeals</b> DTU (Technical University of Denmark), Lyngby<br>Partaking in re-evaluation of exam projects in the course '42490, TEMO'.   |
| dec. 2013/14 | <b>Pre-exam tutoring</b> DTU (Technical University of Denmark), Lyngby<br>Helping students understand key concepts in the course 'Physics 1'.   |
| 2010-2012    | <b>Handicap Dancing Instructor</b> Aftenskolen v/ Lis Cronberg, Hillerød<br>Weekly dancing lessons with mentally and/or physically handicapped people of all ages.  |
| 2010–        | <b>Writer/Editor</b> Wunderbaum Magazine, Copenhagen/Web<br>Sporadically committing articles/edits to this biannually published skateboard magazine.  |
| 2008-2010    | <b>Music Booker</b> Toldkammeret, Helsingør<br>Responsible for booking bands and arranging events for an indie music club. We hosted artists such as Fallulah, Analogik, Vinnie Who and When Saints Go Machine. |

## Recommendations

|           |  |
|-----------|--|
| aug. 2015 | <i>"Ulf was a very active student contributing in lectures as well as in practicals and in the laboratory. In addition to his professional contributions I got a very good impression of Ulf as an engaged and well-liked student. (...)"</i><br>– <b>Carsten Knudsen</b> , Senior Executive Education Officer, DTU Physics  |
| jan. 2014 | <i>"He is a quick learner and very open to venture into new scientific disciplines. His interdisciplinary interest profile is highly beneficial for complex projects involving both academic and industrial partners. In addition he has an easy-going personality with a good flair for team-work which is essential in our type of project. (...)"</i><br>– <b>Claus Helix Nielsen</b> , Vice President, Aquaporin A/S |
| feb. 2012 | <i>"Aslak is a bright, inquisitive student, cheerful, always well prepared, and always extremely thorough with homework. He very quickly acquired a remarkable grasp of the central points and techniques in the not always trivial material, and proceeded to get top marks at the written exam. (...)"</i><br>– <b>Poul Hjorth</b> , Associate Professor, DTU Mathematics  |

## Miscellaneous

### Publication

jan. 2016 | “Open-source CFD model for optimization of forward osmosis and reverse osmosis membrane modules”, **Seperation and Purification Technology**

### Conference

nov. 2014 | Talk on CFD optimisation of membrane modules, **DRWIP2014** (Danish Water Research and Innovation Platform 2014), Copenhagen

### Competitions

may 2016 | Winner, **Data Stories**, Science Magazine Visualization Competition  
feb. 2015 | Finalist, **EBEC15**, European BEST Engineering Competition  
jun. 2014 | 4th place, **DTU Grøn Dyst**, Environmental Engineering Competition

### Projects

dec. 2015 | “Communities in temporal networks”, **Interactive visualization**  
Interactive visualisation, for exploring social patterns of university students. The visualisation models the dynamical structure of communities in a temporal network of human interactions. Developed with D3.js. <http://ulfaslak.com/Visualisation/>.  
aug. 2015 | “Membrane Testing System Tutorial”, **Animation video**  
Instructive animation video made in Blender, illustrating how to use the Sterlitech Sepa CF Membrane Testing System. Displayed at <https://youtu.be/C6vvIFSd464>.  
jun. 2015 | “Analysing bias patterns in the movie reviewing community”, **Visualisation**  
Visualisations showing rating bias patterns among movie critics across the world, based on review data scraped from [rottentomatoes.com](http://www.rottentomatoes.com). The project is exhibited on [http://cwii.frwaw.itu.dk/movie\\_critics/](http://cwii.frwaw.itu.dk/movie_critics/).  
dec. 2014 | “Predicting the Danish Parliament”, **Machine Learning**  
A web service that allows users to enter information about a law proposition, and get instant predictions on how different members of parliament are going to vote. Available at [http://ec2-54-68-181-171.us-west-2.compute.amazonaws.com:8000/query\\_folketinget/](http://ec2-54-68-181-171.us-west-2.compute.amazonaws.com:8000/query_folketinget/).  
dec. 2014 | “Why do people follow bots?”, **Machine Learning**  
An exploratory study in which we created a Twitter bot and attracted over 2000 followers, such as to study the mechanisms that drove them to follow us. Available at <http://ulfaslak.com/images/sigproc-sp.pdf>.

## Skills

### Computer related

**Coding:** Python, R, MATLAB, JavaScript, C#, Swift (iOS)

**Database systems:** SQL, NoSQL, Neo4j

**Tools and tech.:** D3, Hadoop MapReduce, Apache Spark, Amazon ML, Blender

**Other:** HTML, CSS, LaTeX, RegEx, Git, OpenFOAM, Unix Terminal

### General

**Languages:** Danish (native), English (excellent), German (intermediate), Icelandic (basic)

**Training:** Drivers license (B), First aid training, Cleanroom fabrication, voice training (acting)