


# Thies Gehrman M.Sc Curriculum Vitæ

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## Personal profile

Currently, I am a PhD in Bioinformatics student at the Delft University of Technology. Having been raised in Norway, among people from all over the world, I am accustomed to an international, multicultural environment. Academically, machine learning techniques are interesting to me, and bioinformatics presents a splendid opportunity to develop and apply them. I am looking for a position where challenging problems, involving many different skills and team work, allow me to contribute positively to society, and further develop my skills.

## Education

### 2012-Present

Pattern Recognition and Bioinformatics group, TU Delft, The Netherlands  
*PhD in Bioinformatics.*  
*Gene regulation in mushroom formation.*

### 2010-2012

Leiden University, Leiden, The Netherlands (In cooperation with TU Delft)  
*MSc Computer Science Track Bioinformatics.*  
*Thesis on protein function prediction using Conditional Random Fields.*

### 2008-2010

Heriot Watt University, Edinburgh, Scotland  
*BSc (Ord) Computer Science*  
*Graduated with distinction.*

## Employment

### November 2012 - Present

PhD Researcher  
*In my current position, I conduct research and perform teaching duties, including Bachelor and Master's level courses, and student supervision.*

## Skills

### Technical Skills

Python, Scala, C/C++, Java, Shell, Matlab, R  
Experience with schedulers (SLURM, PDB) and version control software, (SVN, Git).  
SQL, XML (and related technologies),  $\LaTeX$ .  
Experienced with Unix environments (primarily Linux).  
Machine learning, comparative genomics, RNA-Seq analysis and algorithm development.

### Languages

Fluent in Norwegian, German and English.  
High level Dutch. Beginners Spanish and French.

## Awards

### 2013

TU Delft Graduate school event 2013 'Best poster presentation award'.

### 2010

Scott Logic Computer Science Prize 2010.

## Publications

### Journal publications

- [1] (In press) Jordi F. Pelkmans, Aurin M. Vos, Karin Scholtmeijer, Johan J.P. Baars, Thies Gehrmann, Marcel J.T. Reinders, Luis G. Lugones, and Han Wösten. The transcriptional regulator *c2h2* accelerates mushroom formation in *Agaricus bisporus*. *Applied Microbiology and Biotechnology*, 2016

### Conference publications

- [2] Thies Gehrmann and Marcel J.T. Reinders. Proteny: discovering and visualizing statistically significant syntenic clusters at the proteome level. *Bioinformatics*, 2015

- [3] Thies Gehrmann, Marco Loog, Marcel JT Reinders, and Dick de Ridder. Conditional random fields for protein function prediction. In *Pattern Recognition in Bioinformatics*, pages 184–195. Springer, 2013

### In the works

- [4] *Schizophyllum commune* has an extensive and functional alternative splicing repertoire
- [5] Homokaryon specific expression in *Agaricus bisporus* affects core functionality
- [6] Understanding the evolution of antibiotic resistance in *Mycobacterium tuberculosis* strains from Southern-India from Whole Genome Sequencing

## Teaching

### MSc Courses

*Functional Genomics and Systems Biology*: Lecturer and teaching assistant. Fall 2014, 2015, 2016 at TU Delft

### BSc Courses

*Life Science and Technology Bioinformatics*: Teaching assistant and course content creator. Spring 2016 at TU Delft.

*Genome Scale Data Analysis*: Lecturer and teaching assistant. Fall 2014 at TU Delft

### External Courses

*Quantitative biology summer school*: Lectured on computational aspects of synteny and alternative splicing in fungi. Summer 2015 at Utrecht University.

## Supervision

### Arlin Keo

Msc Student 2014-2016

*Detecting mixed Mycobacterium tuberculosis infections and differences in drug susceptibility with WGS data.*

### André Vollering

MSc Student 2014-2015

*Heterosis: Finding Associated Genomic Regions.*

### Valerie Pourquoi

BSc Student 2015

*Conservation of polarization proteins in yeast and fungi.*

### Dimitris Palachanis

MSc Student 2013-2014

*Using the Multiple Instance Learning framework to address differential regulation.*

## Other activities/skills/information

### Reviewing

Nucleic Acid Research (2016)

### Volunteering

International Student Network (Leiden) 2013-2016. Theatre set construction and management.

Dutch Red Cross (Den Haag) 2014-2015. First Aid worker for events and refugee camps.

### Special Interests

Theatre acting, Sailing, Cycling, Climbing/Bouldering, Swimming, Skiing and Hiking.