Thies Gehrmann 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

[2] (In press)

Conference publications

[3]

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 Pourquie

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.