



Basile Rommes

29 August 1992

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Education

MSc. Bioinformatics | University of Copenhagen, Denmark | 2017-2019

BSc. Bioinformatics | Universität des Saarlandes, Germany | 2012-2016

Skills

Computational interests : Computer Vision, Structural Bioinformatics

Programming : Python, Unix/Bash, C++, Java

Others: Keras, Tensorflow, Latex, PLINK, SAMtools, Python Bokeh

Hobbies

Long Distance Running

CrossFit

Foodsharing Copenhagen (Volunteer organisation preventing food waste)

Hiking

Table Tennis

Music & Cinema

FEB-SEP '19	MSc. THESIS - Mean Field Networks for Retinal Blood Vessel Segmentation Investigated the suitability of Mean Field Networks (a Bayesian machine learning model) for pixel-level classification of retina images into vessel and background classes.	6 months
JAN - MAY 2019	Studentjob - Redaction of scientific paper "Deep learning and data augmentation using a coarse-grained force field reveal dark matter in the universe of protein structures" Redaction of writing to make this Master thesis publishable as a paper. Soon to be released on bioRxiv	part-time, 5 month
MAR 2019	ValHacks 2019 - Hackathon Hackathon where we teamed up to tackle a machine learning challenge on Kaggle (kaggle.com)	24 hours
DEC '18-JAN '19	GROUP PROJECT: VISUALIZATION OF HIV PROTEINS Design of website showcasing information of the HIV protein taken from the Protein Databank (PDB),	2 months
FEB - APR '18	BIOINFORMATICS PROJECT Implementation of a Bayesian inference model to tackle the protein superpositioning problem.	2,5 months
NOV 2017	LEOPHARMA HACKATHON Teamed up with like-minded peers to compete in Leopharma's challenge to find new approaches to treating atopic eczema using artificial intelligence.	2 days
JAN-MAR '17	INTERNSHIP, LUXEMBOURG CENTRE FOR SYSTEMS BIOMEDICINE (LCSB) Worked on a Next Generation Sequencing pipeline in the context of the LCSB Genome Analysis group within the Bioinformatics Core. Extended the workflow by adjusting ncRNA annotation tools to be applied on integrated multi-omics analysis data.	3 months
APR-OCT '16	BSc. THESIS - GENOME-WIDE ASSOCIATION STUDIES ON SIMULATED BACTERIAL GENOMES Benchmarking of automated GWAS tool for identification of SNP-phenotype associations in bacterial genomes.	6 months
MARCH 2015	WETLAB INTERNSHIP - Universität des Saarlandes Conducting experiments in various wetlabs, including next generation sequencing and protein identification via liquid chromatography-mass spectrometry	2 weeks
SUMMER '14	PROTEIN-PROTEIN DOCKING IN C++ Protein structure analysis and design of a triangulation mapping algorithm for the purpose of docking in a team of 2	6 weeks
SUMMER '13	SOFTWARE DESIGN INTERNSHIP, Universität des Saarlandes Development of an AI-controlled resource gathering game in a team. UML-architecture planning, test - writing, implementation and AI design in Java	6 weeks
2019	A Probabilistic Programming Approach to Protein Structure Superposition Journal: Institute of Electrical and Electronic Engineers IEEE https://ieeexplore.ieee.org/document/8791469	

- English - Full professional proficiency
- German - Native or bilingual proficiency
- French - Professional working proficiency
- Luxembourgish - Native proficiency
- Danish - Very elementary proficiency (Module 1 certification)