



Basile Rommes



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Education

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

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

Skills

Interests : Data Analysis, Image Analysis/Computer Vision, Epidemiology, Structural Bioinformatics

Programming : Python, R, Unix/Bash, C++, SQL

Other tools: Git, KNIME, Keras, Tensorflow, PLINK, SAMtools, Tableau/Python Bokeh, snakemake, L^AT_EX

Hobbies

Sport climbing

Running

Hiking

Wild Mushroom Hunting

Philosophy

Work

SEP '22 - now	Software Developer at Karolinska Institutet, Stockholm	
	Data harmonization and maintenance of the NEAR database	
SEP '20-Aug '22	Research and Development Specialist at Luxembourg Centre for Systems Biomedicine	24 months
	Data management, data curation and platform building within the european BIOMAP and the luxembourgish CON-VINCE projects	
JUN - AUG '20	Programmer at BioLib	2,5 months
	App creation for the BioLib Webplatform (https://biolib.com), compiling C-projects to WASM Front-End development of the Open-Protein Webpage	
JAN - MAY '19	Studentjob - Redaction of scientific paper	part-time, 5 month
	"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.	

Relevant projects

FEB-SEP '19	MSc. THESIS - Mean Field Networks for Retinal Blood Vessel Segmentation	6 months
	Investigated the suitability of Mean Field Networks (a Bayesian machine learning model) for pixel-level classification of retina images into vessel and background classes.	
April 2020	Bioinformatics Hackathon - Biolib	3 days
	Protein folding project	
MAR 2019	ValHacks 2019 - Hackathon	24 hours
	Hackathon where we teamed up to tackle a machine learning challenge on Kaggle (kaggle.com)	
DEC '18-JAN '19	GROUP PROJECT: VISUALIZATION OF HIV PROTEINS	2 months
	Design of website showcasing information of the HIV protein taken from the Protein Databank (PDB), https://chenbascara1.github.io/	
FEB - APR '18	BIOINFORMATICS PROJECT	2,5 months
	Implementation of a Bayesian inference model to tackle the protein superpositioning problem. (see section Publications)	
NOV 2017	LEOPHARMA HACKATHON	2 days
	Combining web-crawling and known drug-target associations to find new potential atopic eczema drugs	
APR-OCT '16	BSc. THESIS - GENOME-WIDE ASSOCIATION STUDIES ON SIMULATED BACTERIAL GENOMES	6 months
	Benchmarking of automated GWAS tool for identification of SNP-phenotype associations in bacterial genomes.	

Publications

2021	Which demographic and socio-economic factors are associated with vaccination willingness and beliefs towards vaccination? Rapid report with first results http://hdl.handle.net/10993/48567	
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 2 certification)