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, PHP

Other tools: AWS, Git, PyTorch, Tensorflow, Keras, PLINK, SAMtools, Tableau/Python Bokeh, snakemake, KNIME, LaTeX

Hobbies

Sport climbing
Running
Hiking
Wild Mushroom Hunting
Philosophy

Work

2022 - 2024 **Software Developer at Karolinska Institutet, Stockholm** 2 years
Data harmonization for Epidemiological Research and maintenance of the NEAR database and Website. Building pipelines in R and python, WebDev in PHP and Wordpress

2020 - 2022 **Research and Development Specialist at Luxembourg Centre for Systems Biomedicine** 2 years
Data management, data curation and platform building within the european BIOMAP and the luxembourgish CON-VINCE projects

2020 **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 OpenProtein Webpage

2019 **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.

FEB - APR '18 **Protein Superpositioning using Bayesian Inference** 2,5 months
Implementation of a Bayesian inference model to tackle the protein superpositioning problem. Ended up in a collaborative paper published with IEEE (see section Publications)

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)