Didrik Olofsson, Bioinformatics Scientist

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LINKS

Website, GitHub, LinkedIn

PROFILE

Bioinformatics scientist with 6+ years experience of analyzing omics datasets using state-of-the-art bioinformatic methods. Proven ability to address complex biological questions by planning and developing custom-built bioinformatic solutions. Proficient in modern programming languages, workflow management systems and versioning tools, along with extensive experience in managing cloud computing infrastructure. Passionate about creating interactive data visualizations that simplifies the interpretation of complex data.

RESEARCH EXPERIENCE

Apr 2020 — Present

Head of Bioinformatics, Omiqa Bioinformatics GmbH

Berlin, Germany

Managing a team of bioinformatics scientists and overseeing the completion of multiple bioinformatics projects for academic and industrial clients. Also tasked with building and maintaining AWS infrastructure for secure data storage and high-performance computing.

Jun 2018 — Apr 2020

Research fellow, Freie Universität Berlin

Berlin, Germany

Planned, developed and maintained a multipurpose bioinformatics pipeline designed to perform a wide range of analysis types on bulk RNA sequencing data.

Jun 2014 — Jul 2016

Student assistant, SciLifeLab

Stockholm, Sweden

Assisted in the development of new diagnostic methods for multidrug resistant tuberculosis. Also performed *in situ* sequencing in cryosections for spatial detection of SNPs.

INTERNSHIPS

Apr 2018 — Jul 2018

Dr. Marina Chekulaeva, Berlin Institute of Medical Systems Biology

Berlin, Germany

Developed an R package for quality control and analysis of ribosome profiling data. Also created an HTML report for interactive exploration of results.

Oct 2017 — Feb 2018

Prof. Dr. Stefan Mundlos, Max Planck Institute for Molecular Genetics

Berlin, Germany

Investigated changes to chromatin accessibility during osteoclast differentiation by using ATAC-seq and fluorescent confocal microscopy.

Mar 2017 — Jun 2017

Prof. Dr. Florian Heyd, Freie Universität Berlin

Berlin, Germany

Performed alternative splicing and differential gene expression analysis on bulk RNA-seq data to investigate transcriptomic differences between 16 human tissue types.

EDUCATION

Oct 2016 — Mar 2019

Master of Science, Freie Universität Berlin

Berlin, Germany

Biochemistry - Grade average - 1,7

Sep 2013 — Jan 2016

Bachelor of Science, Stockholm University

Stockholm, Sweden

Chemistry - Grade average - 1,5

STIPENDS AND GRANTS

Apr 2020 — Jun 2021

EXIST Business Start-up Grant

Berlin, Germany

Received 112.000 euros in funding from the German Bundesministerium für Wirtschaft und Klimaschutz to develop and found Omiqa Bioinformatics GmbH.

CODING SKILLS

Python	Expert	**Snakemake**	Experienced
R	Expert	**JavaScript**	Experienced
Nextflow	Expert		

LANGUAGES

Swedish	Native speaker	**German**	Highly proficient
English	Highly proficient		

PUBLICATIONS

- Neumann, A., Schindler, M., **Olofsson, D**., Wilhelmi, I., Schürmann, A., & Heyd, F. (2019). Genome-wide identification of alternative splicing events that regulate protein transport across the secretory pathway. In Journal of Cell Science. The Company of Biologists. https://doi.org/10.1242/jcs.230201
- Los, B., Preußner, M., Eschke, K., Vidal, R. M., Abdelgawad, A., **Olofsson, D**., Keiper, S., Paulo-Pedro, M., Grindel, A., Meinke, S., Trimpert, J., & Heyd, F. (2022). Body temperature variation controls pre-mRNA processing and transcription of antiviral genes and SARS-CoV-2 replication. In Nucleic Acids Research (Vol. 50, Issue 12, pp. 6769–6785). Oxford University Press (OUP). https://doi.org/10.1093/nar/gkac513
- Herdt, O., Reich, S., Medenbach, J., Timmermann, B., **Olofsson, D**., Preußner, M., & Heyd, F. (2020). The zinc finger domains in U2AF26 and U2AF35 have diverse functionalities including a role in controlling translation. In RNA Biology (Vol. 17, Issue 6, pp. 843–856). Informa UK Limited. https://doi.org/10.1080/15476286.2020.1732701
- Crute, C. E., Hall, S. M., Landon, C. D., Garner, A., Everitt, J. I., Zhang, S., Blake, B., **Olofsson, D**., Chen, H., Murphy, S. K., Stapleton, H. M., & Feng, L. (2022). Evaluating maternal exposure to an environmental per and polyfluoroalkyl substances (PFAS) mixture during pregnancy: Adverse maternal and fetoplacental effects in a New Zealand White (NZW) rabbit model. In Science of The Total Environment (Vol. 838, p. 156499). Elsevier BV. https://doi.org/10.1016/j.scitotenv.2022.156499
- Barreira, M., Kerridge, C., Jorda, S., **Olofsson, D**., Neumann, A., Horton, H., & Smith-Moore, S. (2022). Enzymatically amplified linear dbDNATM as a rapid and scalable solution to industrial lentiviral vector manufacturing. In Gene Therapy. Springer Science and Business Media LLC. https://doi.org/10.1038/s41434-022-00343-4

REFERENCES

Dr. Alexander Neumann from Omiqa Bioinformatics GmbH

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Prof. Dr. Florian Heyd from Freie Universität Berlin

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