BioQuant, University of Heidelberg

□+49(0)17643449810 | Scholland2408@gmail.com | Ochristianholland | Fmr\_netherlands

#### **Education**

Bielefeld University

Bielefeld, Germany

BACHELOR OF SCIENCE - MOLECULAR BIOTECHNOLOGY

2011-14

• Thesis: Effect of overexpression of xanA on the growth and xanthan production of Xanthomonas campestris pv. Campestris in the laboratory and in the model

Bielefeld University

Bielefeld, Germany

MASTER OF SCIENCE - GENOME BASED SYSTEMS BIOLOGY

2014-17

• Thesis: Coupling of Metabolism and Gene Regulation to identify Gene Targets in Living Cells

RWTH Aachen Aachen Aachen, Germany

PHD 2017-19

• From gene expression to pathway and transcription factor activities to aquire functional and mechanist insight into chroniv liver diseases

Heidelberg UniversityHeidelberg, GermanyCONTINUATION OF PHD2019-now

• From gene expression to pathway and transcription factor activities to aquire functional and mechanist insight into chroniv liver diseases

### Working Experience \_\_\_\_\_

Reseach Center Jülich

INTERNSHIP 2015 (3 month)

• Studying Escherichia coli metabolism with focus on the uncertainties of the biomass equation

Alacris Theranostics GmbH Berlin, Germany

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2016 (3 month)

 Application of a mechanistic model and an artificial neural network for simulation and parameter optimization of the drug response model in the context of personalized medicine

Insilico Biotechnology AG Stuttgart, Germany

MASTER STUDENT 2016-2017 (9 month)

• Coupling of Metabolism and Gene Regulation to identify Gene Targets in Living Cells

## Teaching Experience \_\_\_\_\_

Bielefeld University

Bielefeld, Germany

STUDENT ASSISTANT JOB - MATHEMATICS FOR BIOLOGISTS

2012 15

Bielefeld University

Bielefeld, Germany

STUDENT ASSISTANT JOB - STATISTICS/INFORMATICS FOR BIOLOGISTS

2013-15

# Computational Skills \_\_\_\_\_

- R Expert
- Python Advanced
- Git Advanced
- LaTeX Advanced
- Matlab Beginner

#### **Selected Publications**

1. Holland, C, J Tanevski, J Perales-Patón, J Gleixner, M Kumar, E Mereu, and ... (2020). Robustness and applicability of transcription factor and pathway analysis tools on single-cell RNA-seq data. *Genome Biology*.

- 2. Tajti, F, C Kuppe, A Antoranz, M Ibrahim, H Kim, F Ceccarelli, and ... (2020). A functional landscape of CKD entities from public transcriptomic data. *Kidney International Reports*.
- 3. Garcia-Alonso, L, C Holland, M Ibrahim, D Turei, and J Saez-Rodriguez (2019). Benchmark and integration of resources for the estimation of human transcription factor activities. *Genome research*.
- 4. Holland, C, B Szalai, and J Saez-Rodriguez (2019). Transfer of regulatory knowledge from human to mouse for functional genomics analysis. *Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms*.
- 5. Ghallab, A, M Myllys, CH Holland, A Zaza, W Murad, R Hassan, and ... (2019). Influence of Liver Fibrosis on Lobular Zonation. *Cells*.
- 6. Szalai, B, V Subramanian, C Holland, R Alföldi, L Puskás, and ... (2019). Signatures of cell death and proliferation in perturbation transcriptomics data—from confounding factor to effective prediction. *Nucleic acids research*.